

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P266092

Luminaire Tested: **LXF.LXT-AF24-50-D-U-T2U-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-16-90°)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-50-D-U-T2U-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED TO PROVIDE RELEVANT COMPARISON TO
COMPETITIVE OFFERINGS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4952.5 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

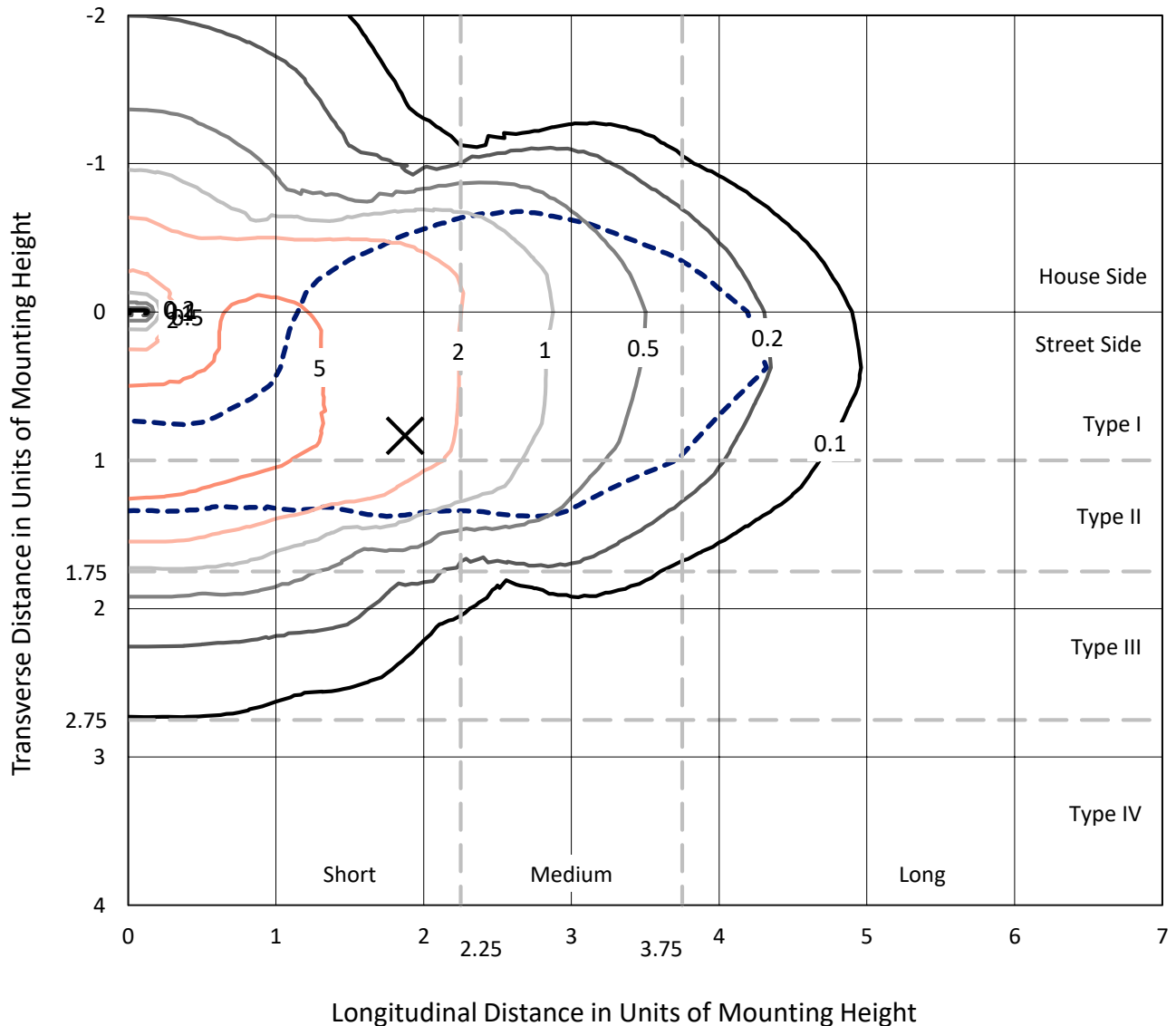
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

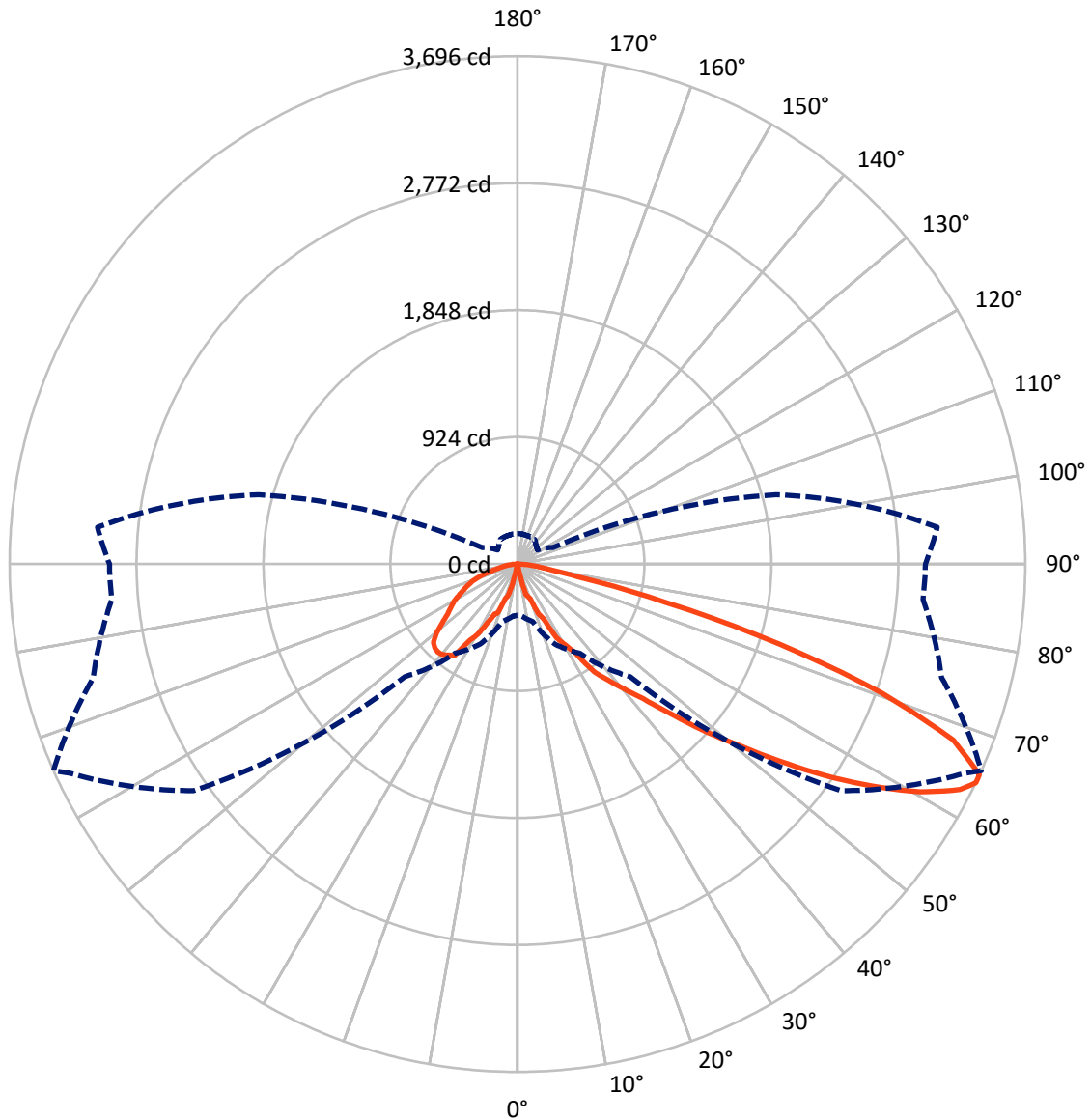
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical



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CATALOG NUMBER: LXF.LXT-AF24-50-D-U-T2U-7027

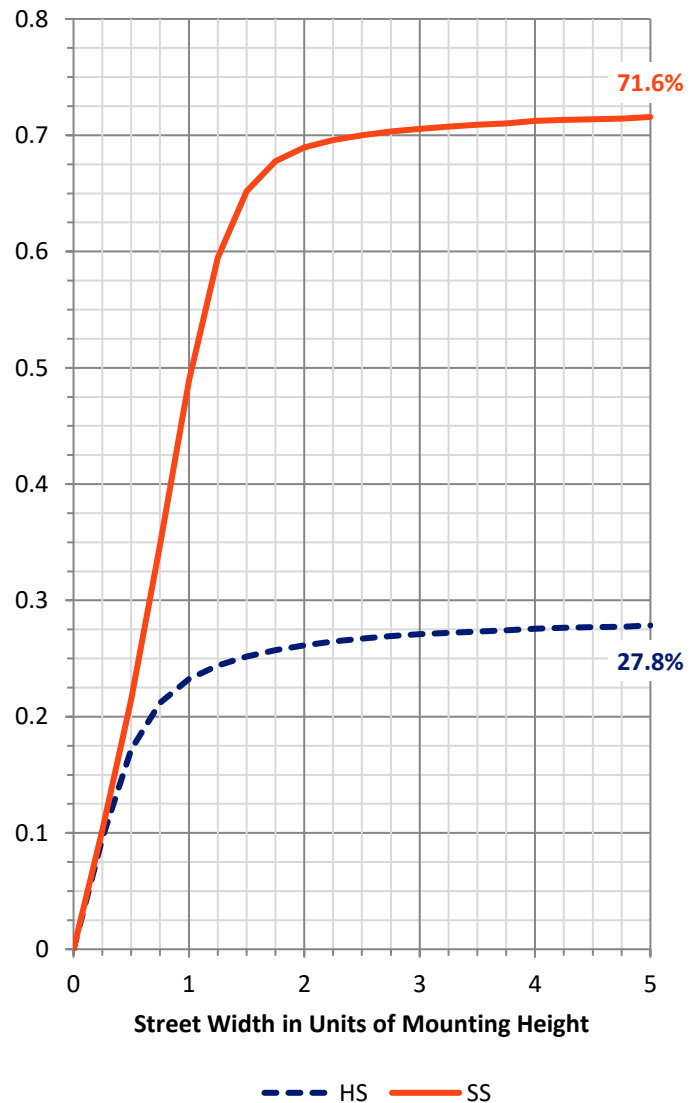
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1394.9	0.0	1394.9
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	3557.7	0.0	3557.7
	% Fixture	71.8	0.0	71.8
Total	Lumens	4952.5	0.0	4952.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.1
10°-20°	54.6	1.1
20°-30°	212.2	4.3
30°-40°	524.9	10.6
40°-50°	987.2	19.9
50°-60°	1309.7	26.4
60°-70°	1179.1	23.8
70°-80°	602.1	12.2
80°-90°	78.9	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4952.5	100.0
0°-180°	4952.5	100.0



REPORT NUMBER: P266092

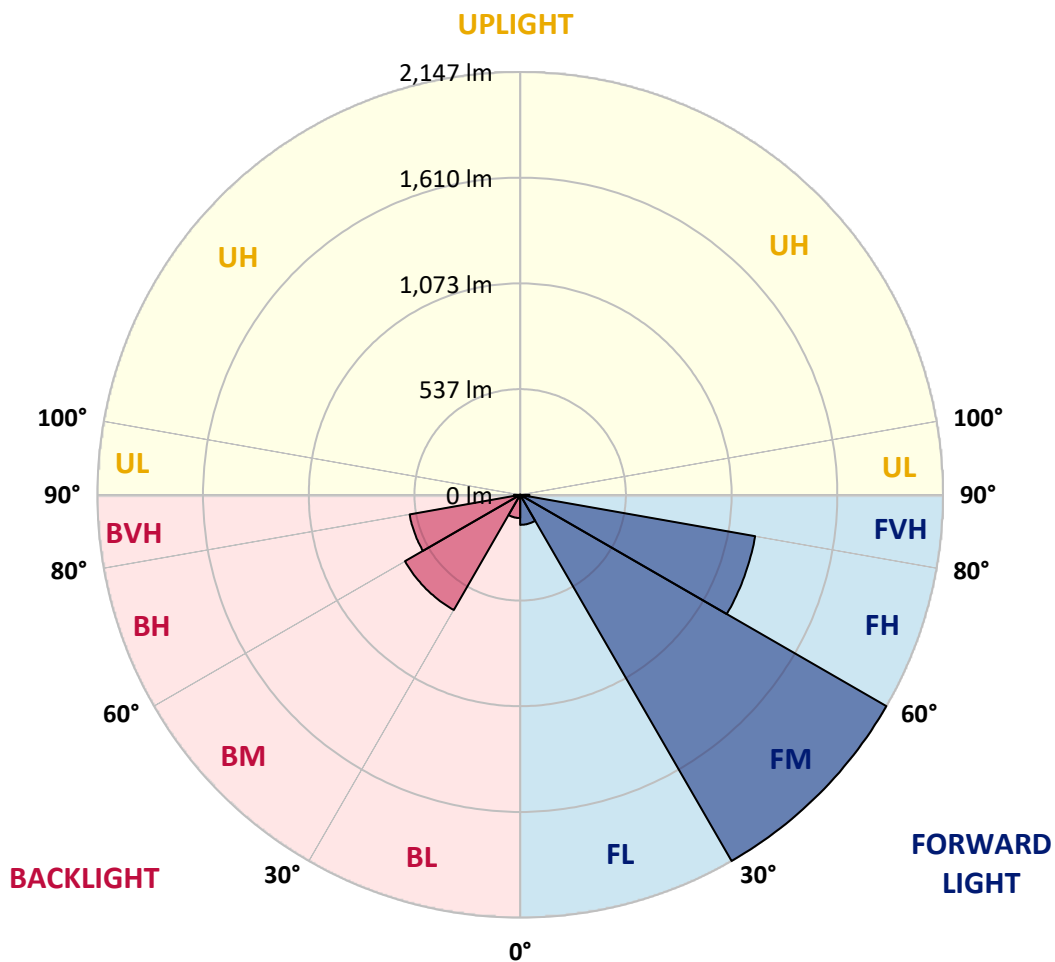
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	152.5	3.1			
FM	(30°-60°)	2146.7	43.3			
FH	(60°-80°)	1211.3	24.5			G1/1800
FVH	(80°-90°)	47.2	1.0			G1/100
BL	(0°-30°)	118.1	2.4	B1/500		
BM	(30°-60°)	675.1	13.6	B1/1000		
BH	(60°-80°)	569.9	11.5	B2/1000		G2/1000
BVH	(80°-90°)	31.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2.5°	2.2	1.6	2.2	2.9	2.9	2.2	1.6	0.5	0.5	0.0	0.0
5°	105.6	103.3	72.0	28.0	14.6	7.8	4.0	1.6	1.1	0.5	0.5
7.5°	110.1	110.1	110.1	111.3	109.1	105.6	18.0	4.0	3.4	1.1	0.5
10°	112.4	111.7	110.8	111.7	110.8	110.8	108.4	14.1	12.9	4.5	3.4
12.5°	211.3	210.2	203.3	131.5	115.3	115.3	115.7	94.4	95.0	30.4	78.2
15°	220.9	220.3	217.5	218.6	211.8	126.4	177.5	227.6	229.8	159.5	180.4
17.5°	245.5	241.6	232.7	229.8	227.0	259.0	248.4	247.8	247.8	185.9	196.1
20°	379.9	374.9	369.7	299.0	249.5	329.9	305.2	268.1	270.3	316.9	336.1
22.5°	436.5	432.7	424.8	408.5	425.9	355.6	373.1	390.6	392.7	414.1	382.0
25°	594.5	597.9	556.3	476.6	513.7	442.8	478.2	430.9	442.8	450.1	472.6
27.5°	769.3	757.5	744.5	677.7	584.3	622.5	527.0	563.5	607.4	613.6	575.5
30°	979.4	963.2	860.2	853.0	747.8	700.7	681.6	691.8	679.8	644.5	645.1
32.5°	1235.7	1226.0	1181.1	1042.9	946.3	803.5	829.9	758.0	764.7	837.8	850.2
35°	1591.8	1575.5	1360.9	1286.8	1095.2	1031.2	928.3	958.0	965.9	951.8	935.6
37.5°	2000.3	1985.9	1817.2	1515.5	1323.8	1176.6	1145.8	1092.9	1072.1	1074.9	1080.5
40°	2241.5	2231.3	2082.5	1830.7	1555.3	1400.3	1299.7	1227.3	1194.7	1235.7	1223.9
42.5°	2413.9	2399.4	2313.9	2068.3	1871.2	1716.7	1485.6	1390.1	1337.3	1425.6	1385.6
45°	2517.4	2495.4	2453.4	2230.2	2129.6	2075.2	1735.7	1580.1	1540.8	1607.1	1577.9
47.5°	2485.9	2449.9	2476.4	2344.2	2339.7	2392.0	2028.0	1799.2	1798.0	1821.8	1799.8
50°	2290.9	2265.0	2343.8	2358.3	2470.2	2643.3	2384.2	2045.9	2059.5	2050.4	2025.0
52.5°	1930.2	1935.8	2060.5	2180.7	2458.9	2792.7	2737.0	2336.4	2373.5	2274.6	2233.0
55°	1556.6	1575.5	1710.0	1859.9	2280.7	2828.7	3043.8	2657.2	2719.1	2492.6	2428.6
57.5°	1181.1	1207.1	1367.1	1479.5	1925.6	2704.4	3226.0	2959.0	3049.4	2700.6	2610.7
60°	751.8	767.6	964.8	1153.7	1436.2	2284.2	3268.7	3266.3	3366.9	2911.9	2772.4
62.5°	486.6	495.7	579.3	831.7	998.6	1594.8	3129.2	3513.6	3616.4	3117.5	2911.2
64°	372.5	380.4	433.8	641.7	792.2	1159.3	2875.8	3598.5	3695.6	3195.6	2963.0
65°	323.7	328.7	368.0	523.2	674.3	909.2	2626.4	3600.8	3694.0	3218.1	2972.0
67.5°	269.1	270.8	285.4	330.9	476.6	506.9	1657.6	3333.3	3420.9	3169.7	2900.5
70°	243.9	247.3	266.3	269.8	368.0	350.6	617.6	2742.6	2813.5	3040.0	2742.2
72.5°	210.2	214.1	238.8	259.0	284.9	278.1	312.4	1926.2	2001.6	2631.9	2561.7
75°	171.3	175.3	199.0	228.7	238.8	218.6	245.5	989.6	1116.0	1945.3	2292.7
77.5°	136.0	140.0	158.5	179.8	215.2	167.4	196.1	379.3	453.5	1208.7	1705.4
80°	96.7	99.0	118.5	136.0	162.5	144.9	142.7	207.4	218.0	600.6	858.6
82.5°	59.6	61.3	79.2	91.0	108.4	144.9	102.2	142.7	146.2	252.3	262.9
85°	33.1	34.2	47.8	51.7	60.1	73.7	68.5	78.2	80.4	112.4	66.4
87.5°	4.0	5.1	11.3	12.3	11.3	12.3	12.3	11.3	11.8	10.2	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P266092

CATALOG NUMBER: LXF.LXT-AF24-50-D-U-T2U-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
2.5°	0.5	0.5	0.5	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0
5°	0.5	0.5	1.1	1.1	1.6	1.6	2.2	3.4	3.4	3.4	4.0
7.5°	0.5	0.5	1.1	1.6	2.2	5.6	28.0	97.1	109.6	113.5	113.5
10°	3.4	3.4	3.4	4.0	11.3	109.6	123.1	127.0	128.6	128.6	129.8
12.5°	86.0	86.0	46.1	18.0	102.9	128.1	131.0	133.8	135.5	137.1	139.3
15°	181.5	182.0	177.0	173.6	183.2	138.2	140.0	225.4	234.8	238.8	239.4
17.5°	197.3	196.1	197.3	251.2	264.7	206.8	231.0	246.7	248.4	248.9	248.9
20°	354.0	352.3	279.8	265.8	271.4	343.3	248.9	249.5	279.8	324.7	338.8
22.5°	379.9	376.5	356.3	388.2	356.3	350.6	316.4	327.1	337.1	336.1	335.4
25°	478.7	469.2	392.7	401.3	451.2	355.1	379.9	315.8	321.5	323.1	323.7
27.5°	588.8	577.6	552.4	472.0	460.2	443.9	355.6	329.9	366.4	367.4	365.3
30°	629.4	614.3	577.6	590.5	492.2	418.6	341.0	348.9	330.3	329.9	330.3
32.5°	855.2	827.7	756.9	640.0	519.8	378.7	336.1	311.4	332.2	337.8	337.8
35°	935.6	899.7	838.4	802.9	498.4	367.4	294.5	300.7	301.7	300.7	301.2
37.5°	1041.2	994.1	938.4	818.1	513.7	319.7	281.0	278.7	300.7	304.5	306.2
40°	1164.3	1119.3	1067.6	830.6	460.8	293.8	269.1	278.7	284.9	286.0	287.2
42.5°	1320.5	1258.2	1188.9	828.2	392.2	282.1	266.8	266.8	274.3	271.9	271.9
45°	1498.6	1418.9	1303.1	806.9	324.7	271.4	261.2	257.4	260.7	256.2	256.2
47.5°	1698.7	1611.0	1388.5	773.8	286.0	261.9	256.2	243.9	251.7	250.5	250.5
50°	1910.4	1818.9	1468.3	699.1	261.9	253.4	243.4	240.4	250.5	248.4	247.8
52.5°	2113.9	2034.8	1528.9	597.4	241.0	245.5	238.8	237.7	246.7	244.3	243.9
55°	2309.0	2262.8	1604.8	511.3	222.5	231.6	237.2	237.2	242.7	240.4	240.4
57.5°	2498.8	2507.8	1694.7	452.3	208.4	220.3	234.8	234.3	237.7	236.1	236.6
60°	2692.1	2750.5	1784.7	396.7	197.3	207.4	230.3	229.2	231.0	230.3	231.0
62.5°	2875.2	2971.4	1893.6	325.4	185.0	197.3	223.0	224.1	223.7	225.4	225.4
64°	2969.2	3067.4	1947.5	283.8	177.5	191.1	217.5	219.1	218.6	221.9	221.4
65°	3005.6	3102.8	1966.7	259.0	173.1	187.0	213.5	215.8	215.2	219.1	217.5
67.5°	2995.6	3061.2	1943.7	213.5	161.2	176.4	202.8	206.8	205.2	210.7	206.8
70°	2889.4	2834.8	1761.0	185.9	151.8	164.6	189.4	194.5	191.6	197.3	190.5
72.5°	2690.5	2446.5	1370.5	161.2	141.0	152.8	174.2	179.2	177.0	179.2	171.9
75°	2249.8	1886.9	801.8	140.0	127.0	136.5	156.2	161.2	159.0	154.0	151.2
77.5°	1564.4	1192.9	316.9	122.4	114.1	119.7	133.2	137.7	134.2	124.8	123.1
80°	746.2	532.2	152.4	106.2	99.0	102.2	109.1	110.8	110.1	100.6	96.1
82.5°	228.7	174.2	105.1	85.3	80.4	79.2	86.0	83.7	82.6	75.8	59.6
85°	51.7	51.2	59.0	52.8	50.6	45.5	51.7	50.0	48.9	36.6	31.5
87.5°	1.6	3.4	2.9	7.2	7.8	6.2	10.2	10.7	7.8	3.4	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)