

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: P253979

Luminaire Tested: **LXF.LXT-AF24-40-D-U-T2U-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253979
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-AF24-40-D-U-T2U-7030
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 500mA 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: 4275.3 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

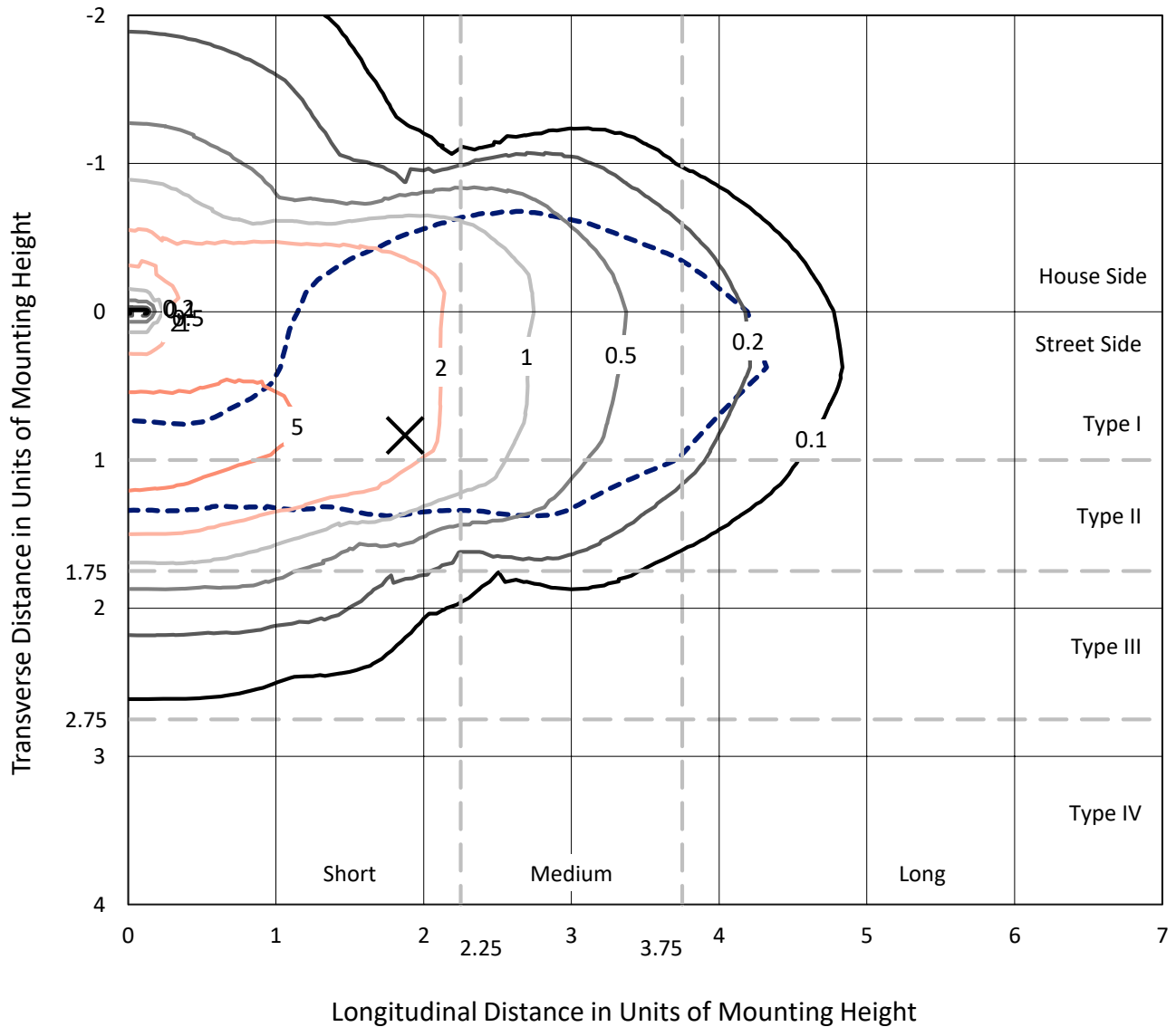
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

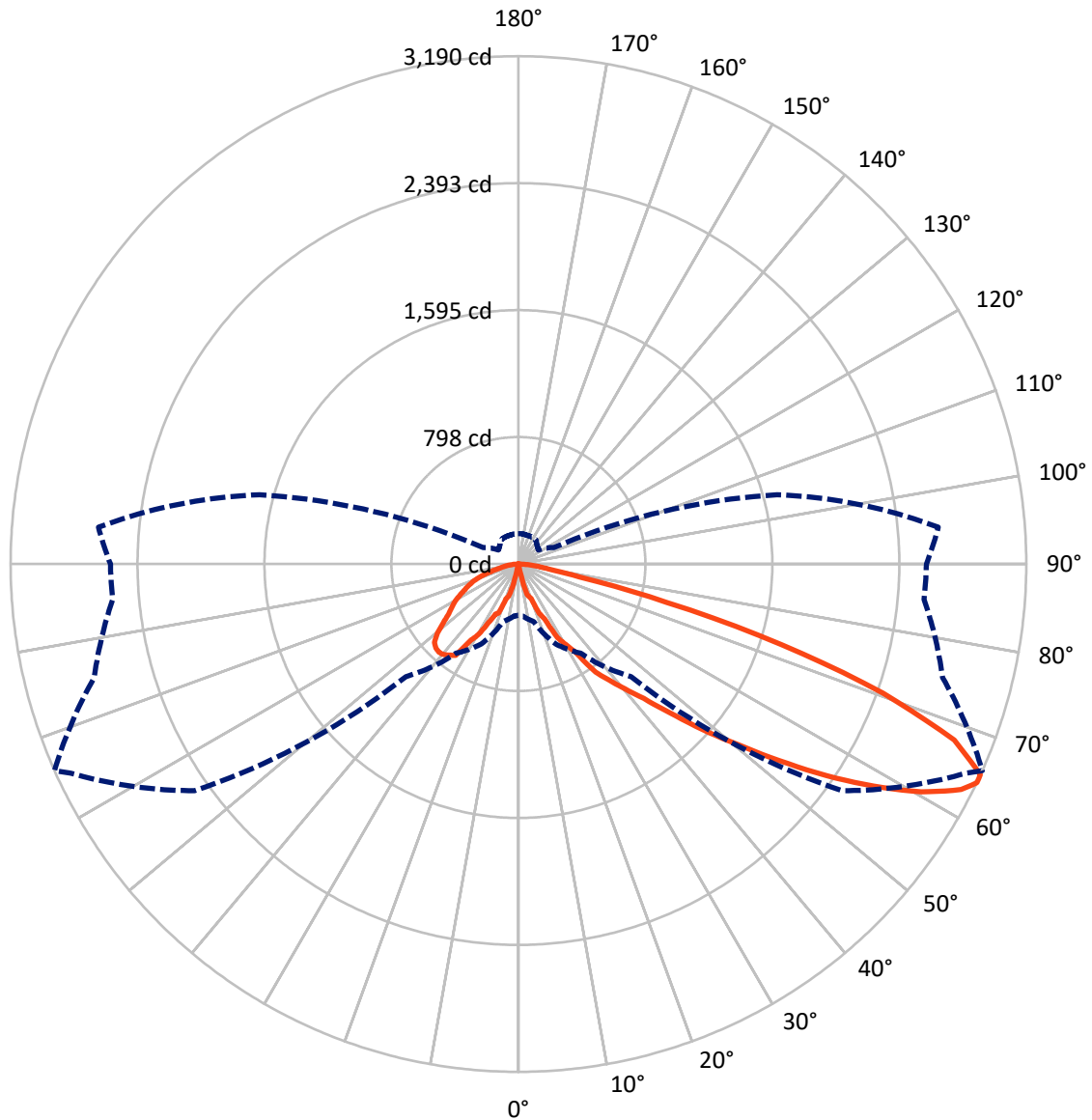
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 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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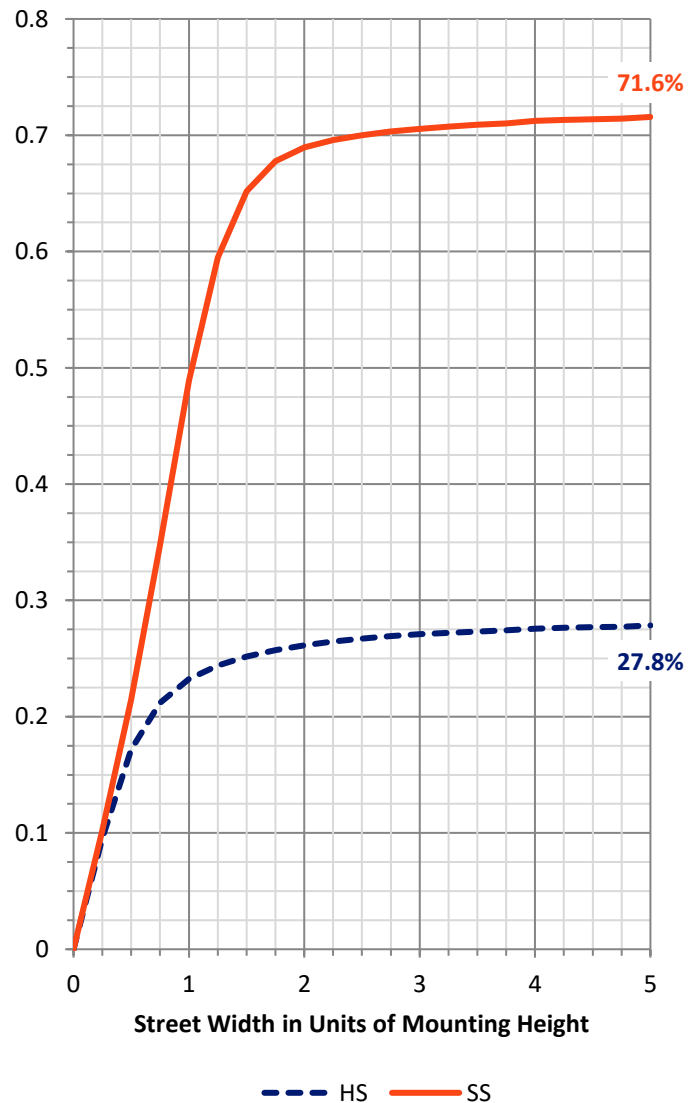
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1204.1	0.0	1204.1
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	3071.2	0.0	3071.2
	% Fixture	71.8	0.0	71.8
Total	Lumens	4275.3	0.0	4275.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.1
10°-20°	47.2	1.1
20°-30°	183.2	4.3
30°-40°	453.1	10.6
40°-50°	852.2	19.9
50°-60°	1130.6	26.4
60°-70°	1017.9	23.8
70°-80°	519.8	12.2
80°-90°	68.1	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°	4275.3	100.0
0°-180°	4275.3	100.0



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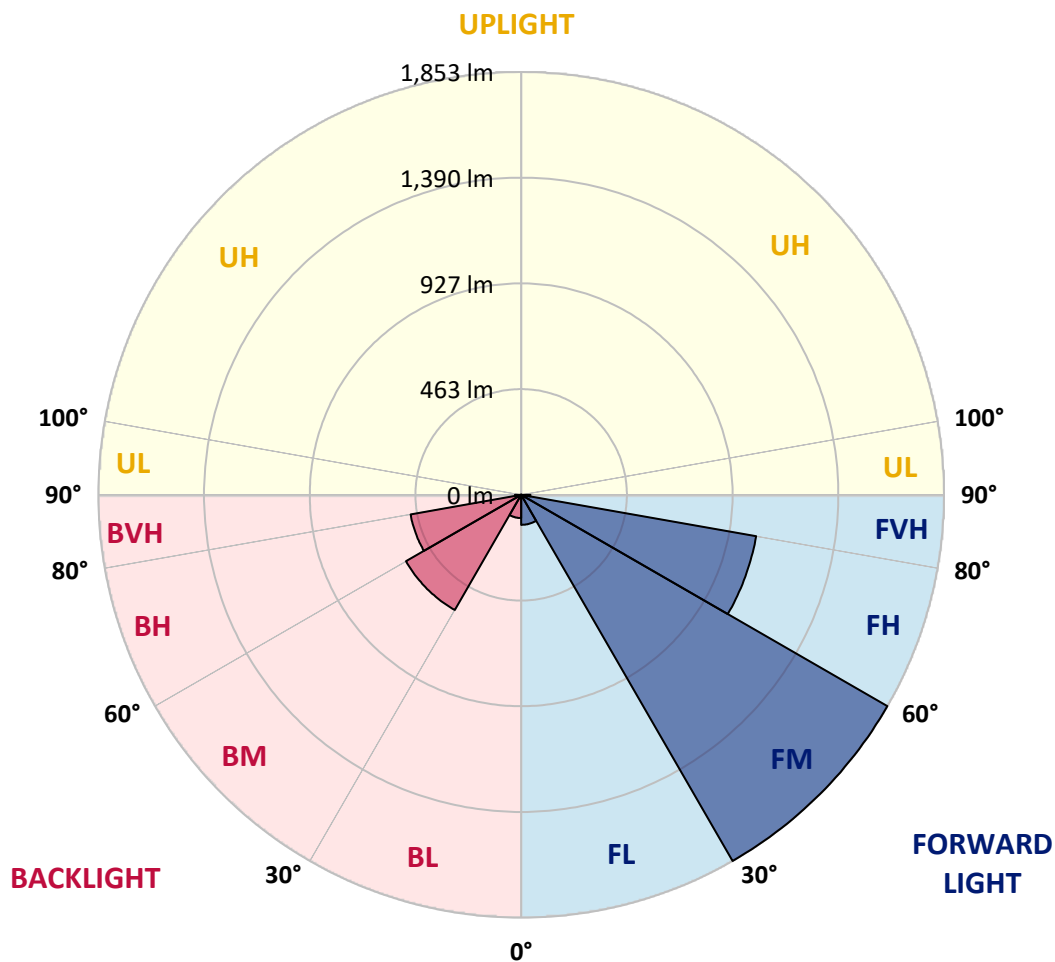
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	131.6	3.1			
FM	(30°-60°)	1853.1	43.3			
FH	(60°-80°)	1045.7	24.5			G1/1800
FVH	(80°-90°)	40.7	1.0			G1/100
BL	(0°-30°)	101.9	2.4	B0/110		
BM	(30°-60°)	582.8	13.6	B1/1000		
BH	(60°-80°)	492.0	11.5	B1/500		G1/500
BVH	(80°-90°)	27.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2.5°	1.9	1.4	1.9	2.4	2.4	1.9	1.4	0.4	0.4	0.0	0.0
5°	91.2	89.3	62.1	24.2	12.6	6.8	3.4	1.4	1.0	0.4	0.4
7.5°	95.0	95.0	95.0	96.0	94.1	91.2	15.6	3.4	2.9	1.0	0.4
10°	97.0	96.4	95.6	96.4	95.6	95.6	93.6	12.1	11.2	4.0	2.9
12.5°	182.4	181.4	175.6	113.5	99.4	99.4	100.0	81.5	82.0	26.2	67.4
15°	190.6	190.1	187.7	188.7	182.9	109.2	153.3	196.4	198.5	137.7	155.7
17.5°	212.0	208.5	200.8	198.5	196.0	223.7	214.3	213.9	213.9	160.6	169.3
20°	327.9	323.5	319.1	258.1	215.3	284.7	263.5	231.4	233.3	273.5	290.1
22.5°	377.0	373.5	366.7	352.7	367.6	307.0	322.1	337.2	339.0	357.5	329.9
25°	513.2	516.1	480.2	411.4	443.4	382.2	412.8	372.0	382.2	388.5	408.0
27.5°	664.1	653.9	642.8	585.0	504.4	537.4	454.9	486.5	524.3	529.7	496.7
30°	845.4	831.5	742.6	736.3	645.6	604.9	588.4	597.1	586.9	556.3	556.9
32.5°	1066.7	1058.4	1019.6	900.3	816.8	693.7	716.4	654.4	660.2	723.3	733.9
35°	1374.2	1360.2	1174.9	1110.8	945.4	890.1	801.3	827.1	833.8	821.7	807.7
37.5°	1726.9	1714.3	1568.8	1308.3	1142.9	1015.8	989.1	943.5	925.5	927.9	932.7
40°	1935.0	1926.2	1797.7	1580.3	1342.7	1208.9	1122.0	1059.4	1031.3	1066.7	1056.5
42.5°	2083.9	2071.2	1997.5	1785.6	1615.3	1481.9	1282.4	1200.1	1154.5	1230.6	1196.2
45°	2173.1	2154.1	2117.8	1925.2	1838.4	1791.5	1498.4	1364.0	1330.0	1387.3	1362.1
47.5°	2146.0	2114.9	2137.6	2023.7	2019.8	2065.0	1750.7	1553.2	1552.2	1572.6	1553.6
50°	1977.6	1955.3	2023.3	2035.8	2132.4	2281.8	2058.1	1766.1	1777.7	1770.0	1748.1
52.5°	1666.2	1671.1	1778.7	1882.5	2122.7	2410.8	2362.7	2016.9	2048.9	1963.6	1927.7
55°	1343.7	1360.2	1476.1	1605.6	1968.9	2441.8	2627.6	2293.9	2347.2	2151.8	2096.4
57.5°	1019.6	1041.9	1180.2	1277.2	1662.4	2334.7	2784.8	2554.4	2632.5	2331.3	2253.7
60°	649.0	662.6	832.9	995.9	1239.9	1971.8	2821.6	2819.8	2906.6	2513.6	2393.4
62.5°	420.1	427.9	500.1	718.0	861.9	1376.6	2701.3	3033.1	3122.0	2691.2	2513.2
64°	321.6	328.5	374.4	554.0	684.0	1000.7	2482.6	3106.3	3190.4	2758.6	2557.8
65°	279.3	283.7	317.7	451.6	582.2	784.8	2267.2	3108.3	3188.8	2778.0	2565.5
67.5°	232.4	233.9	246.4	285.7	411.4	437.6	1431.0	2877.5	2953.2	2736.3	2503.9
70°	210.6	213.4	229.9	232.8	317.7	302.6	533.0	2367.6	2428.8	2624.2	2367.1
72.5°	181.4	184.8	206.2	223.7	246.0	240.2	269.7	1662.8	1727.8	2272.0	2211.4
75°	147.9	151.4	171.7	197.4	206.2	188.7	212.0	854.2	963.3	1679.4	1979.1
77.5°	117.4	120.7	136.8	155.2	185.7	144.5	169.3	327.4	391.4	1043.4	1472.2
80°	83.5	85.3	102.3	117.4	140.2	125.1	123.3	178.9	188.3	518.6	741.3
82.5°	51.5	52.9	68.4	78.5	93.6	125.1	88.3	123.3	126.0	217.8	227.0
85°	28.6	29.6	41.2	44.6	51.9	63.6	59.2	67.4	69.4	97.0	57.3
87.5°	3.4	4.4	9.8	10.7	9.8	10.7	10.7	9.8	10.2	8.7	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2.5°	0.4	0.4	0.4	1.0	1.0	0.4	0.0	0.0	0.0	0.0	0.0
5°	0.4	0.4	1.0	1.0	1.4	1.4	1.9	2.9	2.9	2.9	3.4
7.5°	0.4	0.4	1.0	1.4	1.9	4.8	24.2	83.9	94.6	98.0	98.0
10°	2.9	2.9	2.9	3.4	9.8	94.6	106.2	109.6	111.1	111.1	112.1
12.5°	74.2	74.2	39.8	15.6	88.7	110.6	113.0	115.5	116.9	118.3	120.3
15°	156.7	157.2	152.8	149.9	158.1	119.3	120.7	194.5	202.7	206.2	206.6
17.5°	170.2	169.3	170.2	216.9	228.5	178.5	199.4	212.9	214.3	214.9	214.9
20°	305.6	304.2	241.6	229.5	234.3	296.4	214.9	215.3	241.6	280.4	292.5
22.5°	327.9	325.0	307.6	335.2	307.6	302.6	273.1	282.3	291.0	290.1	289.5
25°	413.3	405.1	339.0	346.4	389.5	306.6	327.9	272.6	277.4	278.9	279.3
27.5°	508.4	498.7	476.8	407.4	397.2	383.2	307.0	284.7	316.3	317.3	315.3
30°	543.2	530.2	498.7	509.8	424.9	361.4	294.5	301.2	285.2	284.7	285.2
32.5°	738.3	714.5	653.4	552.6	448.7	326.9	290.1	268.8	286.7	291.5	291.5
35°	807.7	776.7	723.8	693.1	430.3	317.3	254.1	259.5	260.5	259.5	260.0
37.5°	898.8	858.1	810.0	706.3	443.4	276.0	242.5	240.6	259.5	262.9	264.4
40°	1005.0	966.3	921.6	717.0	397.8	253.7	232.4	240.6	246.0	246.9	247.9
42.5°	1139.9	1086.0	1026.4	715.0	338.6	243.5	230.4	230.4	236.8	234.8	234.8
45°	1293.7	1224.8	1125.0	696.5	280.4	234.3	225.5	222.2	225.1	221.1	221.1
47.5°	1466.4	1390.7	1198.6	667.9	246.9	226.0	221.1	210.6	217.3	216.4	216.4
50°	1649.3	1570.2	1267.5	603.4	226.0	218.7	210.0	207.6	216.4	214.3	213.9
52.5°	1824.8	1756.5	1319.9	515.6	208.1	212.0	206.2	205.2	212.9	211.0	210.6
55°	1993.1	1953.3	1385.4	441.4	192.1	199.8	204.8	204.8	209.6	207.6	207.6
57.5°	2157.1	2164.9	1463.0	390.5	180.0	190.1	202.7	202.2	205.2	203.8	204.2
60°	2324.0	2374.4	1540.5	342.4	170.2	178.9	198.9	197.9	199.4	198.9	199.4
62.5°	2482.2	2565.1	1634.7	280.9	159.6	170.2	192.7	193.5	193.1	194.5	194.5
64°	2563.1	2648.0	1681.3	245.0	153.3	164.9	187.7	189.1	188.7	191.6	191.1
65°	2594.7	2678.6	1697.8	223.7	149.3	161.4	184.3	186.3	185.7	189.1	187.7
67.5°	2585.9	2642.7	1677.9	184.3	139.2	152.3	175.2	178.5	177.0	181.9	178.5
70°	2494.3	2447.2	1520.3	160.6	131.0	142.1	163.5	167.8	165.4	170.2	164.4
72.5°	2322.6	2112.0	1183.1	139.2	121.8	131.9	150.3	154.7	152.8	154.7	148.5
75°	1942.2	1628.8	692.1	120.7	109.6	117.9	134.8	139.2	137.2	132.9	130.4
77.5°	1350.5	1029.8	273.5	105.8	98.5	103.4	114.9	118.9	116.0	107.7	106.2
80°	644.2	459.3	131.4	91.7	85.3	88.3	94.1	95.6	95.0	86.9	82.9
82.5°	197.4	150.3	90.6	73.8	69.4	68.4	74.2	72.3	71.3	65.4	51.5
85°	44.6	44.1	51.0	45.6	43.7	39.4	44.6	43.1	42.2	31.5	27.2
87.5°	1.4	2.9	2.4	6.3	6.8	5.4	8.7	9.2	6.8	2.9	0.4
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)