

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: P253986

Luminaire Tested: **LXF.LXT-AF24-20-D-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253986
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-AF24-20-D-U-T2U
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 260mA 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: 2487.8 lumens
Efficiency: N/A
Efficacy: 118.5 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): 21
Input Voltage (V): NR
Input Current (A_{in}): 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

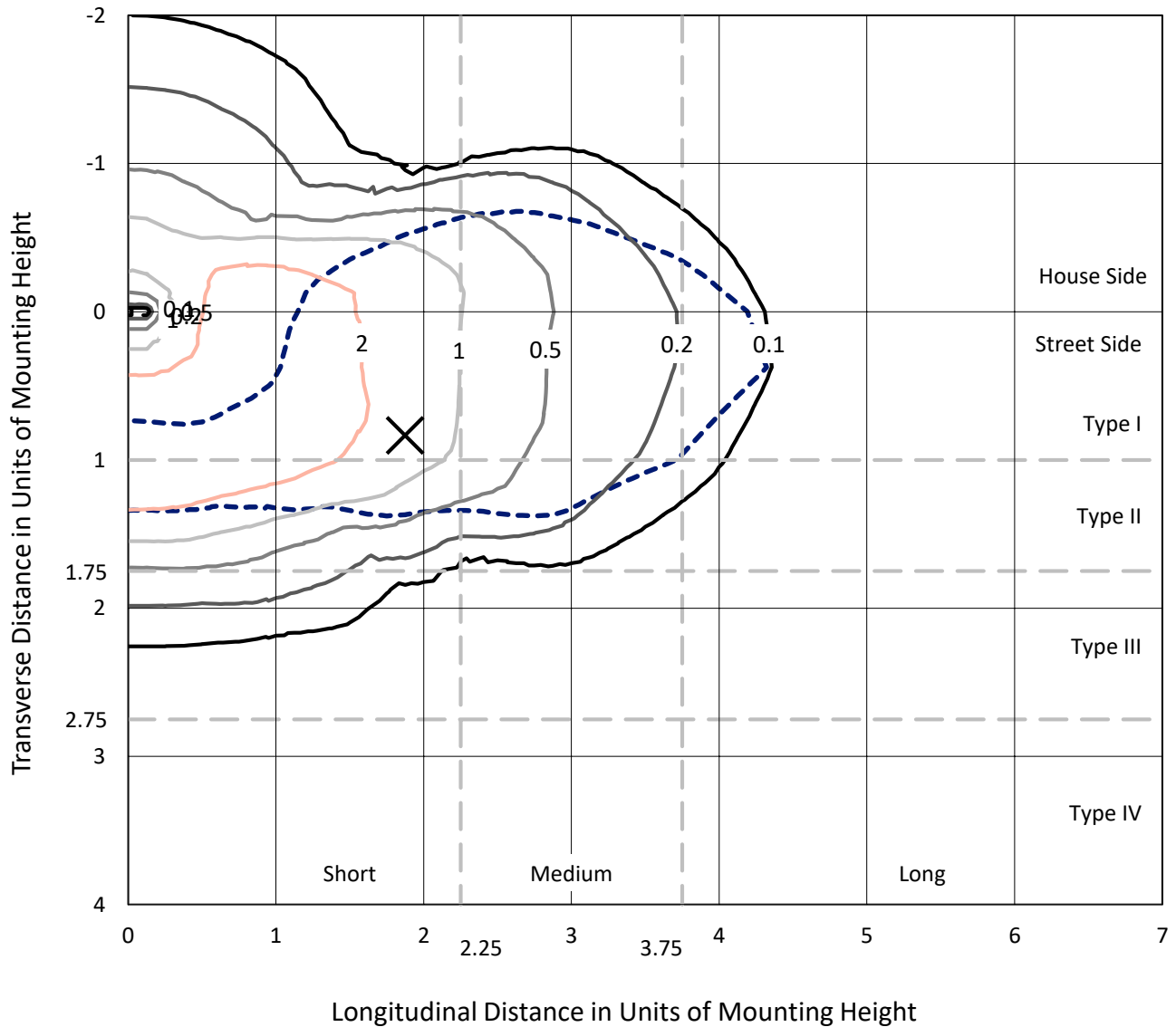


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

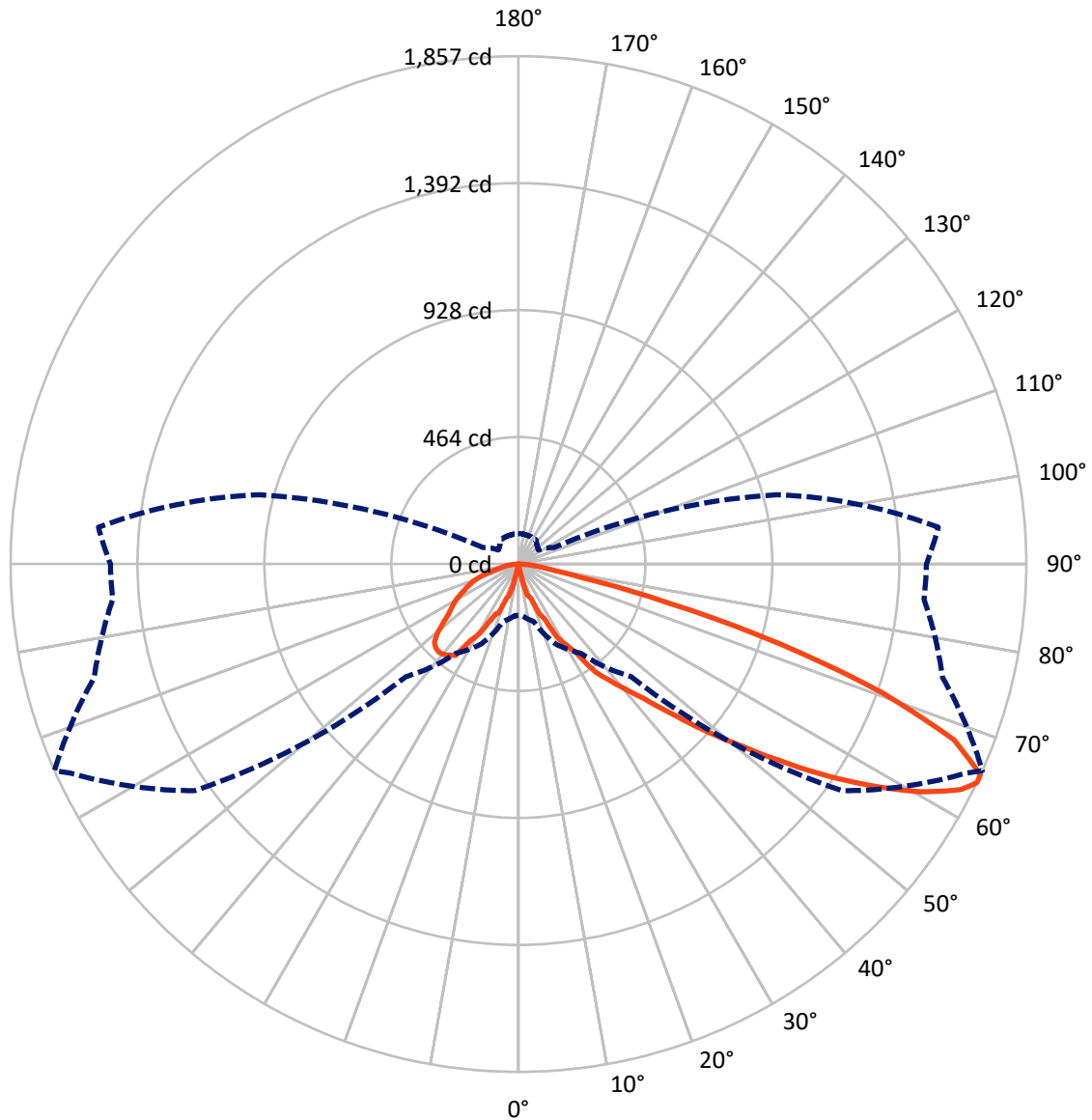


Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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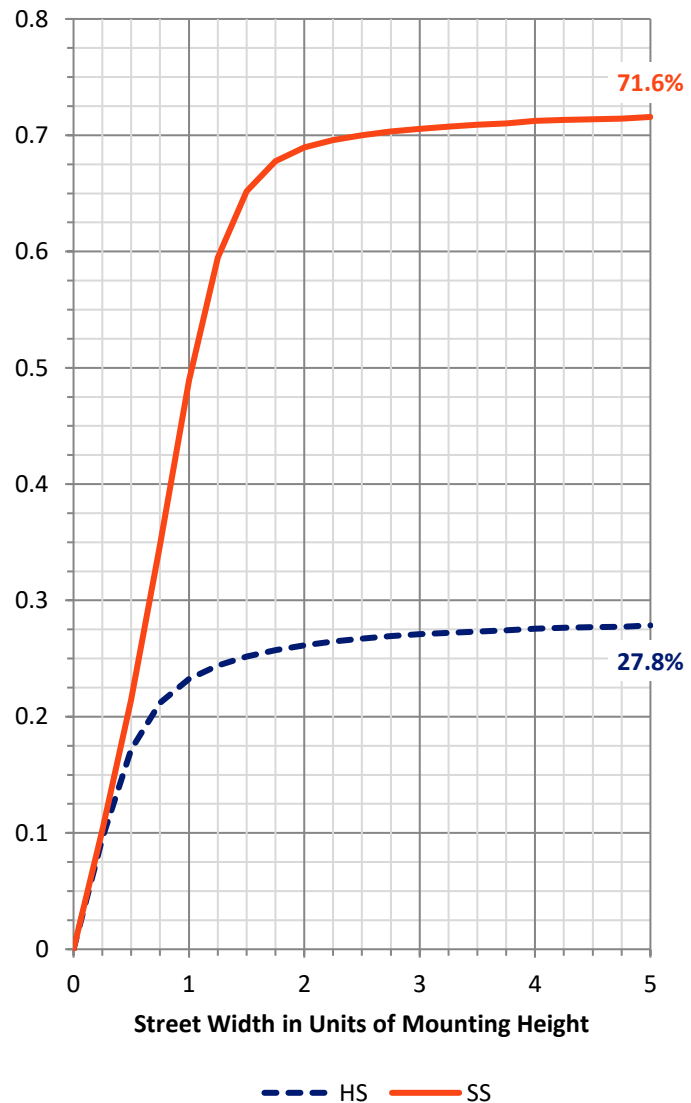
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	700.7	0.0	700.7
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	1787.1	0.0	1787.1
	% Fixture	71.8	0.0	71.8
Total	Lumens	2487.8	0.0	2487.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.1
10°-20°	27.4	1.1
20°-30°	106.6	4.3
30°-40°	263.7	10.6
40°-50°	495.9	19.9
50°-60°	657.9	26.4
60°-70°	592.3	23.8
70°-80°	302.5	12.2
80°-90°	39.7	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°	2487.8	100.0
0°-180°	2487.8	100.0



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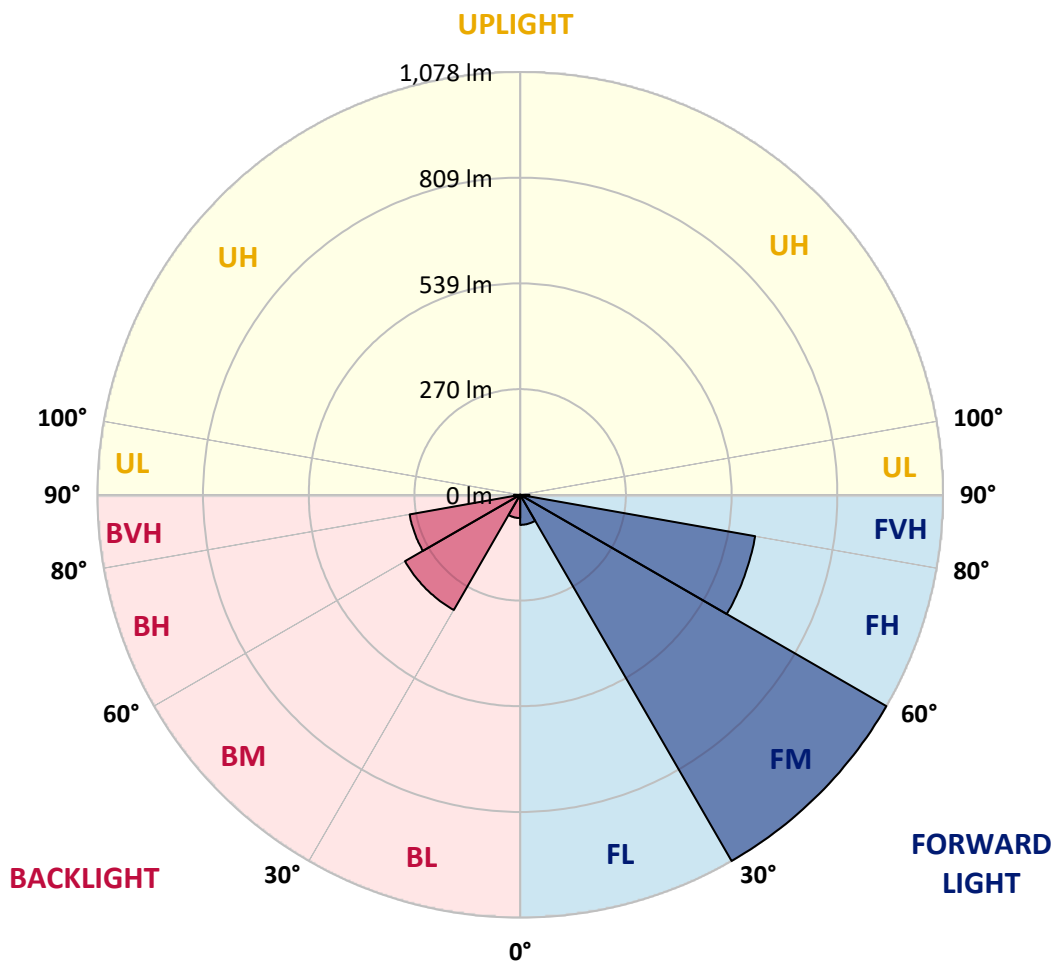
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	76.6	3.1			
FM	(30°-60°)	1078.4	43.3			
FH	(60°-80°)	608.5	24.5			G0/660
FVH	(80°-90°)	23.7	1.0			G1/100
BL	(0°-30°)	59.3	2.4	B0/110		
BM	(30°-60°)	339.1	13.6	B1/1000		
BH	(60°-80°)	286.3	11.5	B1/500		G1/500
BVH	(80°-90°)	16.0	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°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2.5°	1.1	0.8	1.1	1.4	1.4	1.1	0.8	0.3	0.3	0.0	0.0
5°	53.1	52.0	36.1	14.1	7.4	4.0	1.9	0.8	0.6	0.3	0.3
7.5°	55.3	55.3	55.3	55.9	54.7	53.1	9.0	1.9	1.7	0.6	0.3
10°	56.5	56.2	55.6	56.2	55.6	55.6	54.5	7.1	6.4	2.3	1.7
12.5°	106.2	105.6	102.2	66.1	57.9	57.9	58.1	47.5	47.7	15.2	39.3
15°	110.9	110.7	109.3	109.8	106.4	63.5	89.2	114.4	115.5	80.2	90.6
17.5°	123.4	121.4	116.8	115.5	114.1	130.1	124.8	124.5	124.5	93.4	98.5
20°	190.8	188.2	185.8	150.2	125.3	165.7	153.2	134.6	135.7	159.2	168.8
22.5°	219.3	217.4	213.4	205.2	214.0	178.7	187.4	196.2	197.3	208.1	191.9
25°	298.6	300.3	279.5	239.4	258.0	222.4	240.2	216.5	222.4	226.1	237.4
27.5°	386.5	380.5	374.0	340.4	293.6	312.7	264.7	283.2	305.1	308.2	289.1
30°	491.9	483.8	432.2	428.5	375.7	352.0	342.4	347.5	341.6	323.8	324.1
32.5°	620.7	615.9	593.3	523.9	475.4	403.7	417.0	380.7	384.1	420.8	427.1
35°	799.6	791.5	683.6	646.4	550.1	517.9	466.3	481.3	485.2	478.1	469.9
37.5°	1004.8	997.5	912.9	761.3	665.0	591.1	575.5	549.0	538.6	540.0	542.8
40°	1126.0	1120.8	1046.1	919.6	781.3	703.4	652.8	616.4	600.1	620.7	614.8
42.5°	1212.6	1205.2	1162.4	1039.0	940.0	862.3	746.3	698.4	671.8	716.1	696.0
45°	1264.6	1253.5	1232.3	1120.3	1069.8	1042.4	872.0	793.7	774.0	807.3	792.6
47.5°	1248.7	1230.7	1243.9	1177.6	1175.4	1201.6	1018.7	903.8	903.3	915.1	904.1
50°	1150.8	1137.8	1177.3	1184.7	1240.8	1327.8	1197.7	1027.8	1034.5	1030.0	1017.3
52.5°	969.6	972.4	1035.0	1095.5	1235.2	1402.9	1374.9	1173.6	1192.2	1142.6	1121.8
55°	781.8	791.5	859.0	934.3	1145.7	1420.9	1529.0	1334.8	1365.8	1252.1	1220.0
57.5°	593.3	606.3	686.7	743.2	967.3	1358.6	1620.5	1486.4	1531.9	1356.5	1311.4
60°	377.7	385.6	484.7	579.5	721.5	1147.4	1641.9	1640.8	1691.3	1462.7	1392.6
62.5°	244.5	249.0	291.0	417.8	501.6	801.1	1572.0	1765.0	1816.7	1566.0	1462.4
64°	187.1	191.1	217.9	322.3	398.0	582.3	1444.6	1807.7	1856.5	1605.2	1488.4
65°	162.5	165.1	184.8	262.8	338.7	456.7	1319.3	1808.8	1855.6	1616.6	1492.9
67.5°	135.2	136.1	143.4	166.2	239.4	254.6	832.7	1674.4	1718.5	1592.2	1457.1
70°	122.5	124.2	133.8	135.4	184.8	176.2	310.2	1377.7	1413.3	1527.1	1377.4
72.5°	105.6	107.5	120.0	130.1	143.1	139.7	156.9	967.6	1005.5	1322.2	1286.9
75°	86.1	88.1	99.9	114.9	120.0	109.8	123.4	497.1	560.6	977.2	1151.6
77.5°	68.3	70.3	79.6	90.3	108.1	84.1	98.5	190.6	227.8	607.1	856.7
80°	48.6	49.7	59.5	68.3	81.5	72.8	71.7	104.1	109.6	301.8	431.3
82.5°	29.9	30.8	39.8	45.7	54.5	72.8	51.4	71.7	73.3	126.7	132.1
85°	16.7	17.2	24.0	26.0	30.2	36.9	34.5	39.3	40.4	56.5	33.3
87.5°	1.9	2.6	5.6	6.2	5.6	6.2	6.2	5.6	5.9	5.1	2.9
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°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2.5°	0.3	0.3	0.3	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0
5°	0.3	0.3	0.6	0.6	0.8	0.8	1.1	1.7	1.7	1.7	1.9
7.5°	0.3	0.3	0.6	0.8	1.1	2.9	14.1	48.8	55.0	57.0	57.0
10°	1.7	1.7	1.7	1.9	5.6	55.0	61.8	63.8	64.7	64.7	65.2
12.5°	43.2	43.2	23.1	9.0	51.7	64.3	65.8	67.2	68.0	68.8	70.0
15°	91.1	91.5	88.9	87.3	92.1	69.5	70.3	113.1	117.9	120.0	120.2
17.5°	99.1	98.5	99.1	126.1	133.0	103.8	116.0	123.9	124.8	125.0	125.0
20°	177.8	177.0	140.6	133.5	136.4	172.5	125.0	125.3	140.6	163.2	170.2
22.5°	190.8	189.1	178.9	195.1	178.9	176.2	158.9	164.3	169.4	168.8	168.5
25°	240.5	235.7	197.3	201.5	226.7	178.4	190.8	158.7	161.4	162.3	162.5
27.5°	295.8	290.2	277.4	237.1	231.2	223.0	178.7	165.7	184.0	184.6	183.5
30°	316.1	308.5	290.2	296.7	247.2	210.3	171.3	175.3	165.9	165.7	165.9
32.5°	429.6	415.7	380.2	321.5	261.1	190.3	168.8	156.4	166.8	169.6	169.6
35°	469.9	451.9	421.1	403.3	250.4	184.6	147.9	151.0	151.6	151.0	151.3
37.5°	523.0	499.3	471.4	411.0	258.0	160.6	141.2	140.0	151.0	153.0	153.9
40°	584.8	562.3	536.3	417.2	231.5	147.6	135.2	140.0	143.1	143.6	144.2
42.5°	663.3	632.0	597.3	416.0	197.0	141.7	134.1	134.1	137.8	136.7	136.7
45°	752.8	712.7	654.6	405.3	163.2	136.4	131.2	129.3	130.9	128.7	128.7
47.5°	853.2	809.3	697.4	388.7	143.6	131.6	128.7	122.5	126.4	125.9	125.9
50°	959.7	913.7	737.5	351.2	131.6	127.3	122.2	120.8	125.9	124.8	124.5
52.5°	1061.9	1022.0	768.0	300.0	121.1	123.4	120.0	119.4	123.9	122.8	122.5
55°	1159.8	1136.7	806.2	256.9	111.8	116.3	119.1	119.1	121.9	120.8	120.8
57.5°	1255.3	1259.8	851.3	227.2	104.8	110.7	117.9	117.7	119.4	118.6	118.9
60°	1352.3	1381.7	896.5	199.3	99.1	104.1	115.7	115.2	116.0	115.7	116.0
62.5°	1444.3	1492.6	951.2	163.5	92.9	99.1	112.0	112.6	112.3	113.1	113.1
64°	1491.5	1540.9	978.4	142.5	89.2	96.0	109.3	110.1	109.8	111.5	111.2
65°	1509.9	1558.7	988.0	130.1	87.0	94.0	107.3	108.4	108.1	110.1	109.3
67.5°	1504.8	1537.8	976.3	107.3	81.0	88.6	101.9	103.8	103.0	105.9	103.8
70°	1451.4	1424.0	884.6	93.4	76.2	82.7	95.1	97.7	96.3	99.1	95.6
72.5°	1351.5	1229.0	688.4	81.0	70.9	76.8	87.5	90.0	88.9	90.0	86.3
75°	1130.2	947.9	402.8	70.3	63.8	68.6	78.5	81.0	79.9	77.3	75.9
77.5°	785.8	599.2	159.2	61.6	57.3	60.1	66.9	69.2	67.4	62.7	61.8
80°	374.8	267.3	76.5	53.4	49.7	51.4	54.7	55.6	55.3	50.5	48.3
82.5°	114.9	87.5	52.8	42.9	40.4	39.8	43.2	42.0	41.5	38.2	29.9
85°	26.0	25.7	29.7	26.5	25.4	22.9	26.0	25.2	24.6	18.3	15.9
87.5°	0.8	1.7	1.4	3.7	4.0	3.1	5.1	5.3	4.0	1.7	0.3
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)