

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: P266179

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T2U-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266179
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-AF24-80-D-U-T2U-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 7014.6 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

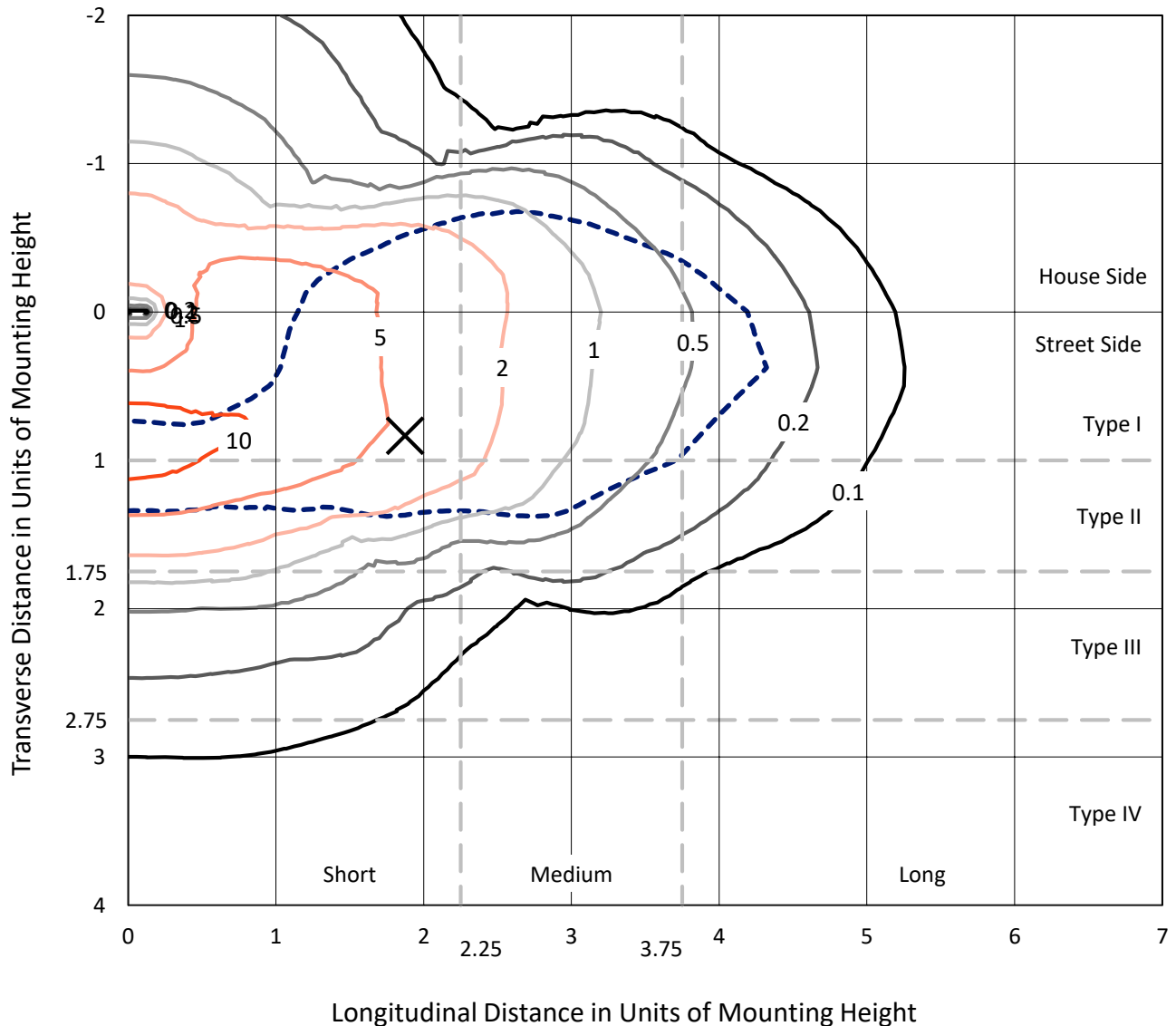
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P266179
 CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T2U-7027

Iso-Footcandle Lines of Horizontal Illumination

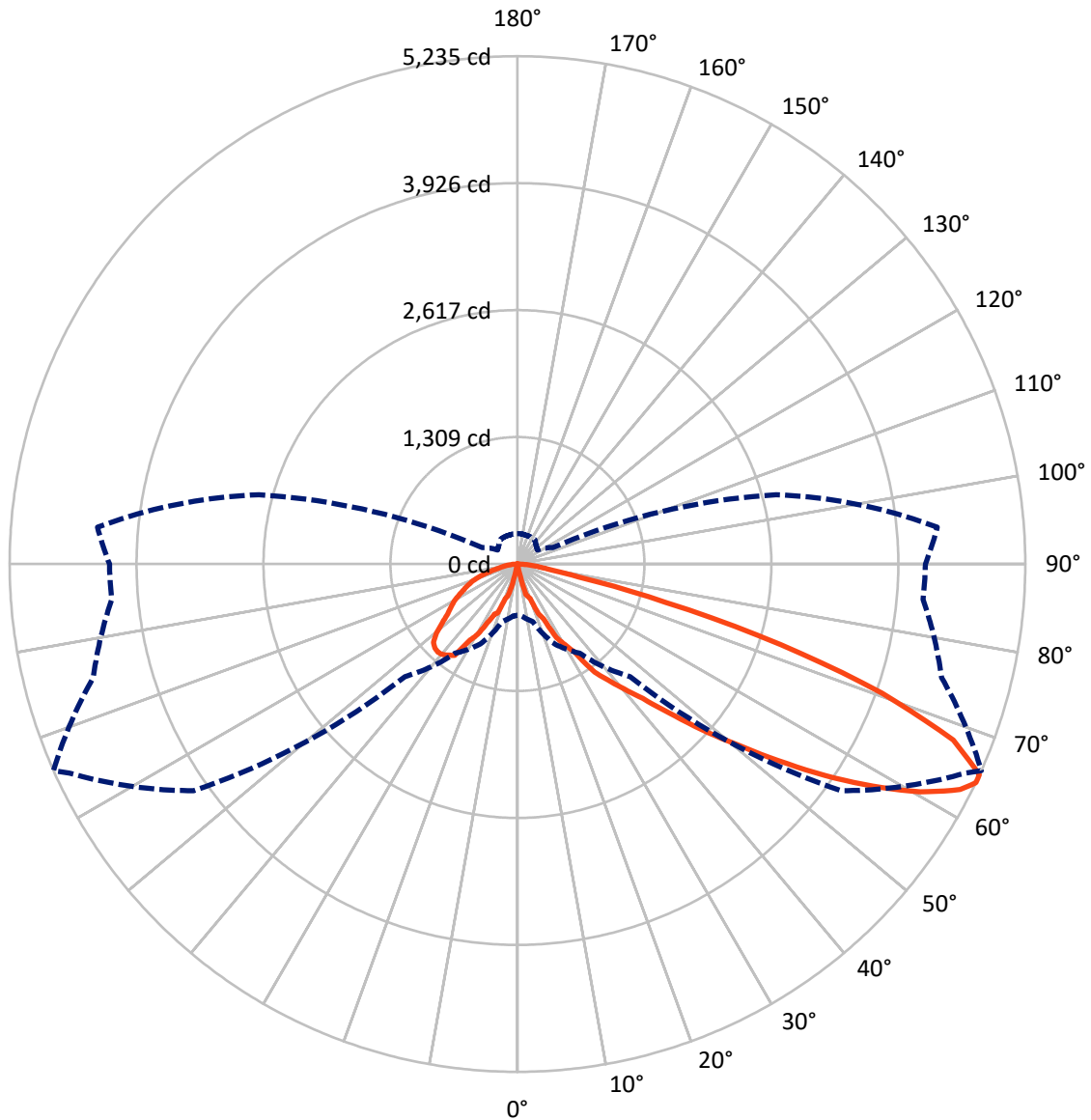
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P266179
CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T2U-7027

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T2U-7027

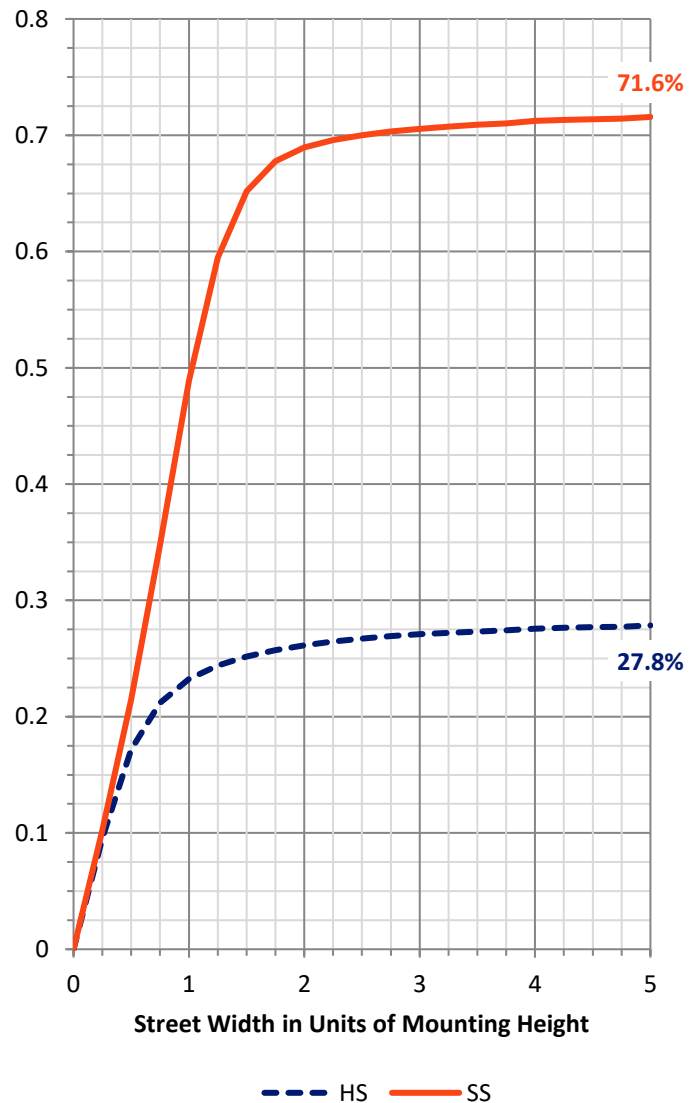
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1975.7	0.0	1975.7
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	5038.9	0.0	5038.9
	% Fixture	71.8	0.0	71.8
Total	Lumens	7014.6	0.0	7014.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.1
10°-20°	77.4	1.1
20°-30°	300.5	4.3
30°-40°	743.4	10.6
40°-50°	1398.3	19.9
50°-60°	1855.0	26.4
60°-70°	1670.1	23.8
70°-80°	852.8	12.2
80°-90°	111.8	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°	7014.6	100.0
0°-180°	7014.6	100.0



REPORT NUMBER: P266179

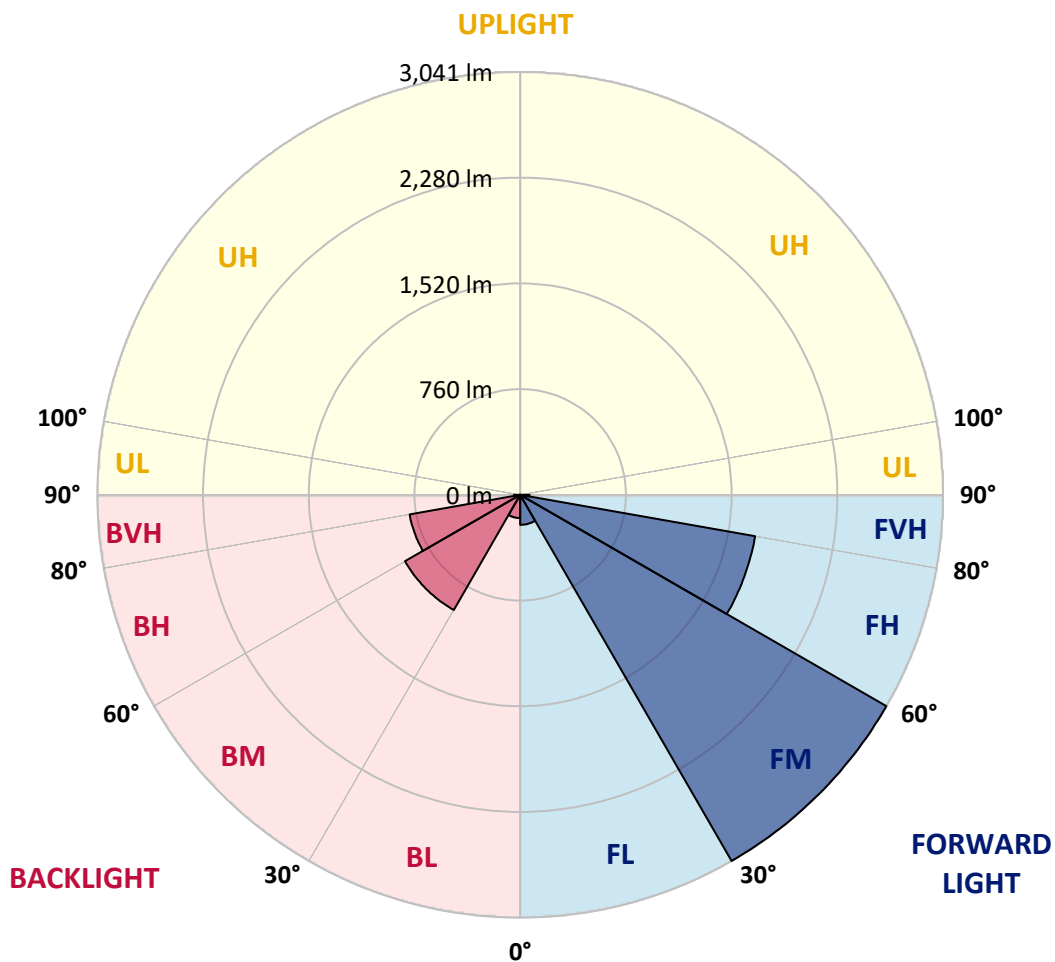
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.0	3.1			
FM (30°-60°)	3040.5	43.3			
FH (60°-80°)	1715.7	24.5			G1/1800
FVH (80°-90°)	66.8	1.0			G1/100
BL (0°-30°)	167.2	2.4	B1/500		
BM (30°-60°)	956.2	13.6	B1/1000		
BH (60°-80°)	807.3	11.5	B2/1000		G2/1000
BVH (80°-90°)	45.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T2U-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2.5°	3.1	2.3	3.1	4.0	4.0	3.1	2.3	0.8	0.8	0.0	0.0
5°	149.6	146.5	101.9	39.7	20.8	11.1	5.6	2.3	1.5	0.8	0.8
7.5°	155.9	155.9	155.9	157.7	154.4	149.6	25.4	5.6	4.9	1.5	0.8
10°	159.2	158.5	156.8	158.5	156.8	156.8	153.6	19.9	18.3	6.4	4.9
12.5°	299.2	297.7	288.0	186.2	163.1	163.1	163.9	133.7	134.4	42.9	110.6
15°	312.8	312.0	307.9	309.6	300.0	179.1	251.4	322.3	325.5	226.1	255.5
17.5°	347.9	342.3	329.5	325.5	321.6	366.9	351.7	351.0	351.0	263.5	277.8
20°	538.1	530.9	523.7	423.5	353.4	467.2	432.2	379.7	382.8	448.9	475.9
22.5°	618.5	612.9	601.7	578.6	603.3	503.8	528.5	553.1	556.3	586.6	541.1
25°	842.0	846.8	788.0	674.8	727.4	627.1	677.3	610.5	627.1	637.4	669.3
27.5°	1089.6	1072.8	1054.5	959.7	827.7	881.9	746.5	798.2	860.3	869.1	815.0
30°	1387.3	1364.2	1218.6	1208.1	1059.3	992.4	965.4	979.7	963.1	912.9	913.7
32.5°	1750.1	1736.7	1673.0	1477.2	1340.2	1138.2	1175.5	1073.7	1083.1	1186.7	1204.2
35°	2254.7	2231.6	1927.7	1822.5	1551.2	1460.5	1314.8	1357.0	1368.1	1348.1	1325.1
37.5°	2833.3	2812.7	2573.9	2146.5	1875.1	1666.5	1622.8	1548.0	1518.6	1522.4	1530.4
40°	3174.7	3160.3	2949.6	2593.0	2203.0	1983.3	1840.8	1738.2	1692.0	1750.1	1733.4
42.5°	3419.0	3398.4	3277.3	2929.6	2650.3	2431.4	2104.3	1968.9	1894.2	2019.1	1962.6
45°	3565.6	3534.6	3474.7	3158.8	3016.4	2939.2	2458.4	2237.9	2182.3	2276.1	2234.9
47.5°	3520.9	3470.1	3507.4	3320.3	3313.9	3388.0	2872.3	2548.4	2546.8	2580.2	2549.2
50°	3244.8	3208.1	3319.5	3340.3	3498.7	3743.7	3376.9	2897.8	2916.8	2904.1	2868.3
52.5°	2733.8	2741.7	2918.5	3088.8	3482.8	3955.4	3876.6	3309.3	3361.7	3221.7	3162.8
55°	2204.6	2231.6	2421.8	2634.3	3230.5	4006.4	4311.2	3763.7	3851.3	3530.5	3439.8
57.5°	1673.0	1709.6	1936.3	2095.6	2727.4	3830.6	4569.0	4191.0	4319.2	3825.0	3697.7
60°	1064.9	1087.2	1366.5	1633.9	2034.2	3235.2	4629.5	4626.5	4768.8	4124.2	3926.9
62.5°	689.2	701.9	820.5	1177.9	1414.3	2258.7	4432.1	4976.6	5122.2	4415.4	4123.4
64°	527.7	538.9	614.4	908.8	1122.3	1641.9	4073.3	5096.8	5234.5	4526.1	4196.6
65°	458.5	465.6	521.2	740.9	955.1	1287.7	3719.9	5099.9	5232.1	4558.0	4209.4
67.5°	381.2	383.5	404.2	468.7	674.8	717.8	2347.8	4721.1	4845.3	4489.5	4108.3
70°	345.4	350.2	377.3	382.0	521.2	496.7	874.7	3884.7	3984.9	4305.7	3883.8
72.5°	297.7	303.2	338.2	366.9	403.5	393.9	442.5	2728.2	2835.0	3727.8	3628.3
75°	242.7	248.3	281.8	323.8	338.2	309.6	347.9	1401.5	1580.6	2755.3	3247.2
77.5°	192.5	198.2	224.4	254.7	304.9	237.2	277.8	537.2	642.3	1711.9	2415.5
80°	136.9	140.0	168.0	192.5	230.0	205.4	202.2	293.7	308.7	850.8	1216.0
82.5°	84.4	86.7	112.2	128.9	153.6	205.4	144.8	202.2	206.9	357.3	372.4
85°	46.9	48.6	67.6	73.2	85.2	104.3	97.0	110.6	113.8	159.2	94.0
87.5°	5.6	7.1	15.9	17.4	15.9	17.4	17.4	15.9	16.7	14.4	7.9
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: P266179

CATALOG NUMBER: LXF.LXT-AF24-80-D-U-T2U-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2.5°	0.8	0.8	0.8	1.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0
5°	0.8	0.8	1.5	1.5	2.3	2.3	3.1	4.9	4.9	4.9	5.6
7.5°	0.8	0.8	1.5	2.3	3.1	7.9	39.7	137.7	155.1	160.7	160.7
10°	4.9	4.9	4.9	5.6	15.9	155.1	174.4	179.9	182.3	182.3	183.9
12.5°	121.8	121.8	65.2	25.4	145.6	181.5	185.4	189.5	191.8	194.3	197.4
15°	257.1	257.9	250.6	246.0	259.4	195.8	198.2	319.2	332.7	338.2	339.0
17.5°	279.4	277.8	279.4	355.8	374.9	292.8	327.2	349.4	351.7	352.6	352.6
20°	501.4	499.0	396.3	376.5	384.5	486.3	352.6	353.4	396.3	460.0	480.0
22.5°	538.1	533.2	504.6	549.9	504.6	496.7	448.1	463.2	477.4	475.9	475.2
25°	678.1	664.6	556.3	568.3	639.1	503.1	538.1	447.3	455.3	457.6	458.5
27.5°	834.0	818.1	782.3	668.5	651.8	628.8	503.8	467.2	519.0	520.5	517.3
30°	891.4	869.9	818.1	836.4	697.2	592.9	483.1	494.2	467.9	467.2	467.9
32.5°	1211.4	1172.3	1072.0	906.5	736.3	536.4	475.9	440.9	470.4	478.3	478.3
35°	1325.1	1274.2	1187.4	1137.3	706.0	520.5	417.1	425.7	427.4	425.7	426.5
37.5°	1474.7	1408.0	1329.1	1158.9	727.4	452.8	397.9	394.7	425.7	431.4	433.7
40°	1649.1	1585.4	1512.1	1176.3	652.6	416.3	381.2	394.7	403.5	405.0	406.8
42.5°	1870.4	1782.0	1684.1	1173.1	555.5	399.6	378.0	378.0	388.3	385.3	385.3
45°	2122.5	2009.6	1845.7	1142.9	460.0	384.5	370.1	364.5	369.4	362.9	362.9
47.5°	2405.9	2281.8	1966.6	1095.9	405.0	370.9	362.9	345.4	356.5	355.0	355.0
50°	2706.0	2576.2	2079.7	990.0	370.9	359.0	344.6	340.6	355.0	351.7	351.0
52.5°	2994.1	2881.9	2165.5	846.1	341.4	347.9	338.2	336.7	349.4	346.1	345.4
55°	3270.2	3205.1	2273.0	724.3	315.1	327.9	335.8	335.8	343.8	340.6	340.6
57.5°	3539.2	3552.0	2400.4	640.8	295.3	312.0	332.7	331.8	336.7	334.3	335.1
60°	3813.0	3895.8	2527.7	561.9	279.4	293.7	326.4	324.6	327.2	326.4	327.2
62.5°	4072.5	4208.6	2682.1	460.8	261.9	279.4	315.9	317.6	316.7	319.2	319.2
64°	4205.3	4344.7	2758.4	401.9	251.4	270.6	307.9	310.4	309.6	314.3	313.6
65°	4257.1	4394.8	2785.6	366.9	245.1	265.0	302.4	305.7	304.9	310.4	307.9
67.5°	4242.9	4335.8	2752.9	302.4	228.3	249.9	287.3	292.8	290.5	298.4	292.8
70°	4092.4	4015.2	2494.2	263.5	214.9	233.2	268.2	275.4	271.4	279.4	269.9
72.5°	3810.6	3465.2	1941.1	228.3	199.8	216.5	246.8	254.0	250.6	254.0	243.5
75°	3186.6	2672.5	1135.6	198.2	179.9	193.3	221.3	228.3	225.2	218.1	214.1
77.5°	2215.7	1689.6	448.9	173.6	161.5	169.5	188.6	195.0	190.3	176.6	174.4
80°	1056.9	753.7	215.8	150.5	140.0	144.8	154.4	156.8	155.9	142.4	136.2
82.5°	323.8	246.8	148.8	121.0	113.8	112.2	121.8	118.5	117.0	107.4	84.4
85°	73.2	72.5	83.5	74.7	71.7	64.5	73.2	70.8	69.2	51.7	44.6
87.5°	2.3	4.9	4.0	10.3	11.1	8.8	14.4	15.1	11.1	4.9	0.8
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)