

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: McGRAW-EDISON

Report Number: P269949

Luminaire Tested: **GPC-AF-01-LED-E1-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-SL2-7027-800-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3696.2 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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: 25 FT

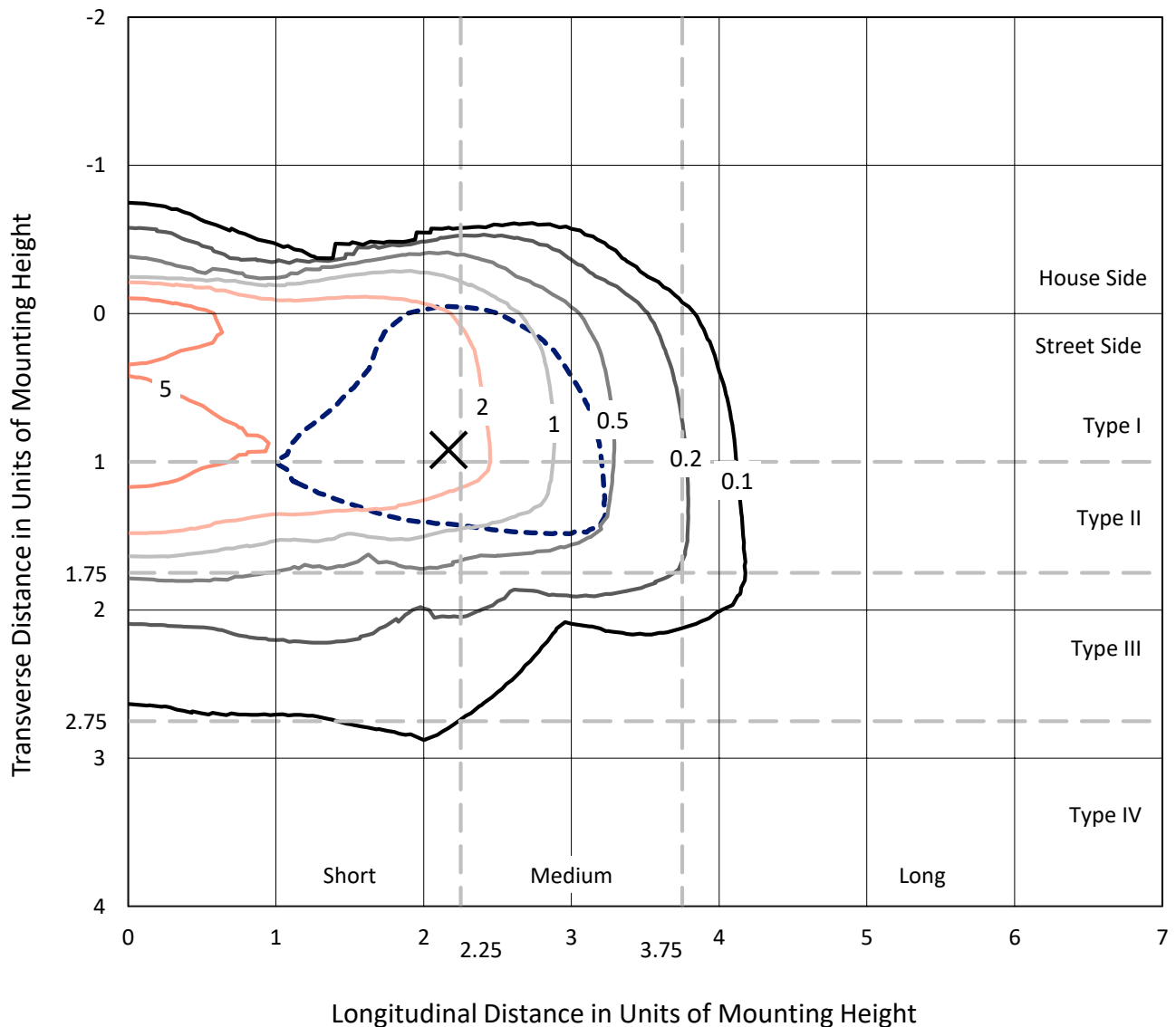


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

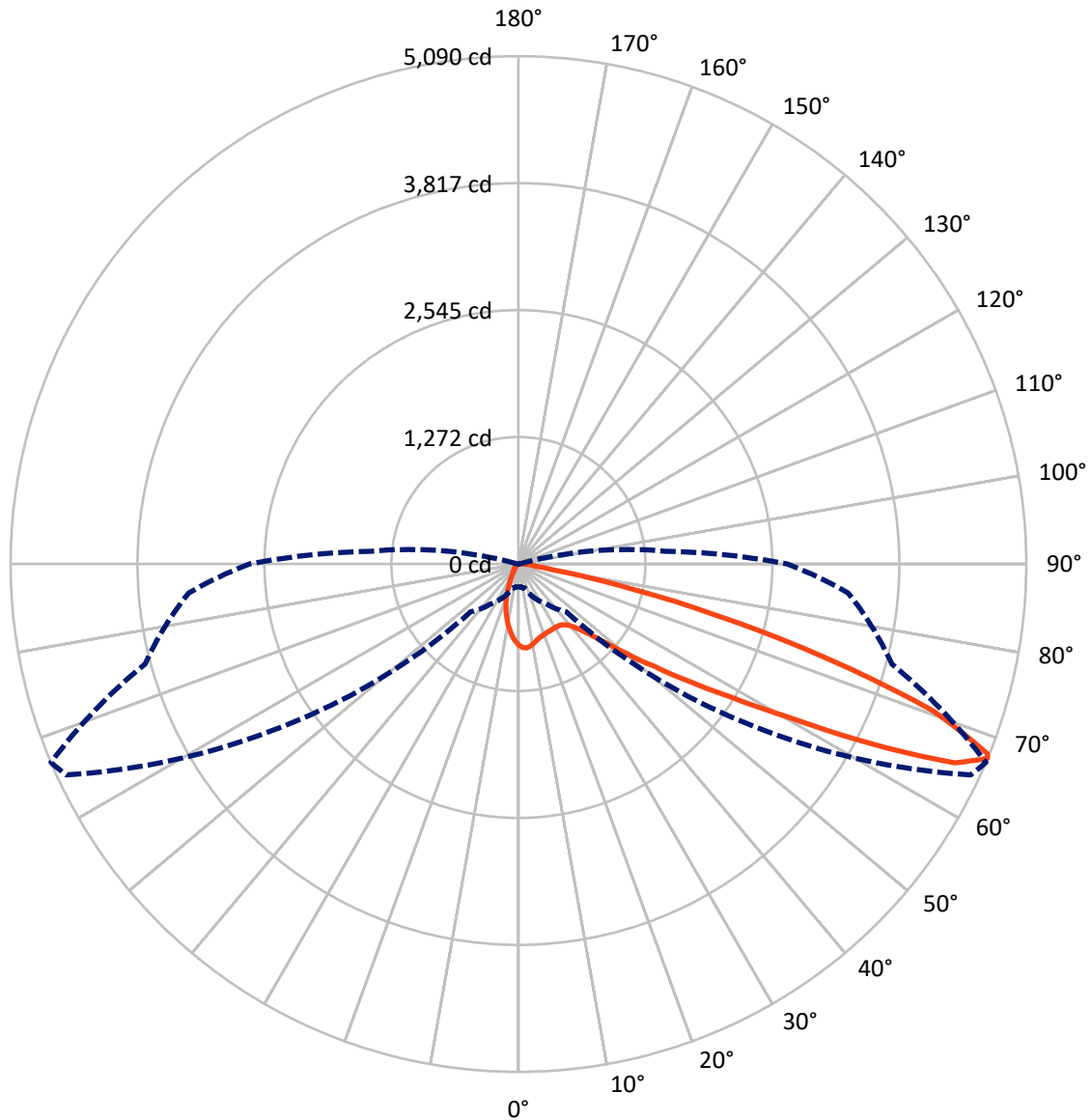


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	383.8	0.0	383.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3312.5	0.0	3312.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	3696.2	0.0	3696.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	1.8
10°-20°	141.2	3.8
20°-30°	205.3	5.6
30°-40°	320.2	8.7
40°-50°	567.2	15.3
50°-60°	897.6	24.3
60°-70°	1028.1	27.8
70°-80°	426.4	11.5
80°-90°	44.0	1.2
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°	3696.2	100.0
0°-180°	3696.2	100.0



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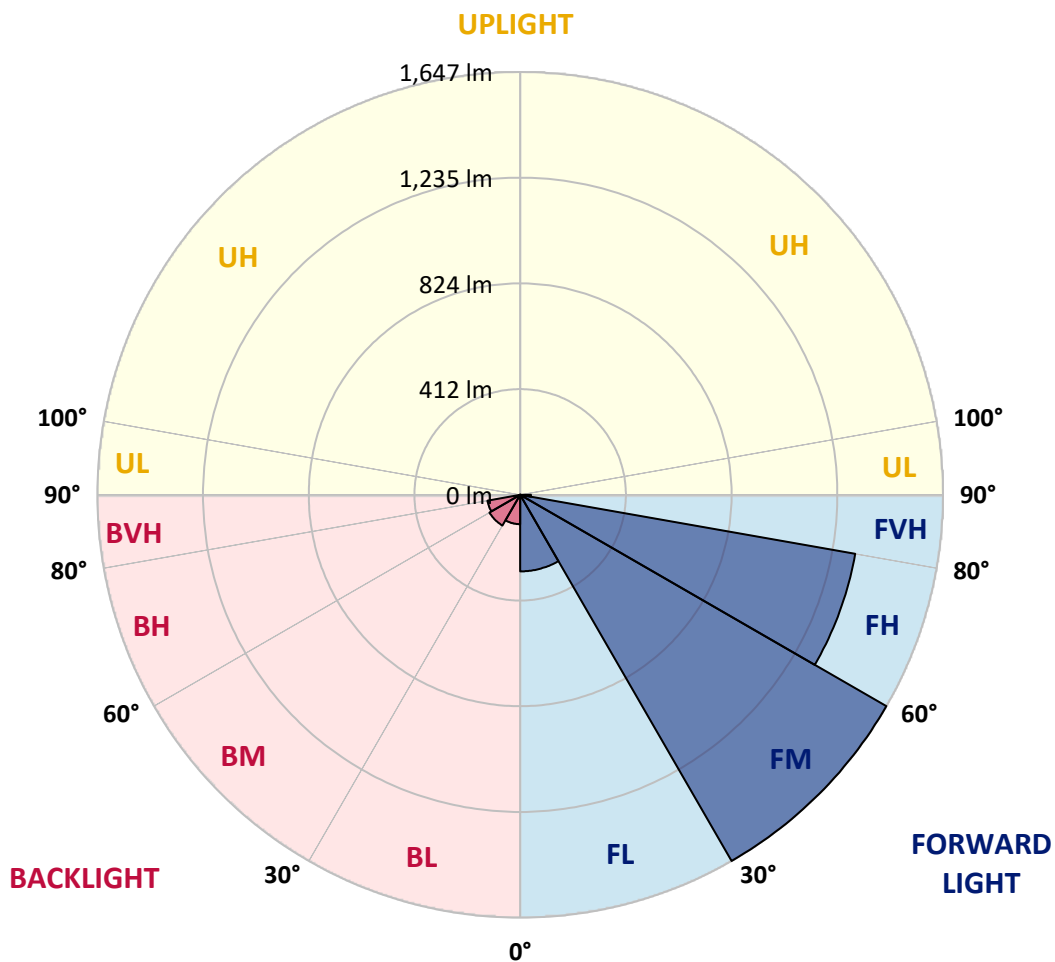
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	298.2	8.1			
FM (30°-60°)	1647.1	44.6			
FH (60°-80°)	1325.1	35.9			G1/1800
FVH (80°-90°)	42.1	1.1			G1/100
BL (0°-30°)	114.5	3.1	B1/500		
BM (30°-60°)	137.9	3.7	B0/220		
BH (60°-80°)	129.4	3.5	B1/500		G1/500
BVH (80°-90°)	2.0	0.1			G0/10
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°	67°	75°	85°
0°	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1
2.5°	842.8	844.4	844.2	845.6	848.5	848.8	845.8	839.9	838.7	831.1	817.9
5°	777.3	782.2	785.2	797.4	811.3	827.9	840.4	844.9	844.2	838.8	819.1
7.5°	702.5	707.3	710.7	725.2	743.5	772.1	804.6	831.3	833.6	839.6	818.1
10°	652.6	653.4	658.2	672.0	691.2	720.4	759.1	805.9	813.0	834.3	816.0
12.5°	611.7	612.3	618.6	633.5	653.8	683.3	723.9	778.1	789.2	827.9	815.7
15°	582.6	584.8	590.5	606.0	627.8	656.9	698.7	757.6	770.7	825.5	819.4
17.5°	572.8	575.5	577.2	588.4	608.2	636.7	679.6	744.2	759.1	826.8	827.0
20°	583.0	584.8	581.1	583.8	596.1	621.5	663.4	732.7	750.4	828.2	836.7
22.5°	620.6	621.5	610.9	598.7	596.6	610.6	650.6	723.8	742.7	832.4	848.2
25°	685.3	683.9	666.6	640.1	615.1	608.6	643.1	718.1	738.9	836.7	859.9
27.5°	763.4	765.5	741.9	703.3	655.7	621.5	642.1	715.8	737.1	839.7	870.4
30°	858.3	861.2	834.2	785.6	717.2	653.4	652.0	715.3	736.0	837.8	871.3
32.5°	955.1	958.8	937.4	887.3	799.6	707.0	674.4	720.1	738.1	831.1	866.2
35°	1056.3	1061.5	1047.3	1004.5	911.3	784.1	713.9	734.5	748.3	830.5	861.2
37.5°	1196.4	1201.0	1174.4	1128.9	1046.4	887.5	777.3	761.8	772.3	840.9	862.6
40°	1405.3	1404.6	1335.6	1266.0	1195.0	1019.0	866.2	810.8	816.2	872.1	878.5
42.5°	1632.8	1631.9	1529.9	1424.1	1359.9	1181.0	983.4	895.8	892.1	929.7	920.0
45°	1808.4	1808.2	1724.9	1605.7	1558.5	1367.0	1134.6	1013.9	1008.3	1023.2	996.3
47.5°	1883.1	1884.6	1842.8	1758.8	1778.6	1618.2	1325.4	1185.1	1176.7	1170.8	1129.7
50°	1824.9	1827.6	1831.0	1814.7	1940.1	1956.1	1581.3	1426.4	1422.2	1395.3	1331.3
52.5°	1634.8	1648.0	1688.5	1740.5	1996.3	2280.3	1982.6	1726.1	1704.1	1675.3	1604.9
55°	1314.5	1329.0	1405.8	1532.0	1912.8	2493.3	2544.9	2112.4	2075.8	1990.1	1888.3
57.5°	869.9	892.3	1004.0	1164.5	1670.4	2527.7	3105.9	2648.6	2521.0	2286.5	2171.9
60°	479.2	500.9	621.9	767.3	1206.5	2358.2	3483.2	3346.6	3121.2	2618.0	2516.2
62.5°	295.2	306.9	396.2	531.4	723.6	1861.2	3561.2	4223.9	3962.9	3044.6	2932.1
65°	234.9	239.9	283.8	434.4	518.7	1107.2	3309.1	4892.7	4805.7	3561.2	3304.4
67°	228.1	230.1	250.7	372.9	488.9	678.7	2772.3	5001.6	5089.9	3873.9	3316.1
67.5°	229.5	231.8	251.3	356.0	488.0	623.8	2587.4	4958.6	5070.4	3898.6	3264.5
70°	221.4	228.1	287.7	355.6	464.2	518.3	1549.4	4296.4	4412.6	3622.4	2770.0
72.5°	78.5	79.0	124.3	287.7	504.7	523.9	778.1	3149.5	3235.7	2771.0	1997.0
75°	46.5	39.6	41.4	81.9	482.3	508.8	448.9	2012.6	2044.7	1587.8	1011.3
77.5°	32.1	28.0	28.8	36.2	183.8	501.8	356.5	1049.5	1015.3	556.9	215.4
80°	18.3	16.2	17.2	31.7	66.8	468.0	336.3	425.5	362.8	94.4	59.5
82.5°	9.7	8.2	9.9	26.1	46.5	291.7	337.0	205.7	163.0	31.9	40.6
85°	3.5	2.9	4.8	17.8	31.0	89.6	312.4	173.0	135.9	15.5	30.8
87.5°	0.7	0.7	1.9	7.4	12.4	27.4	184.8	102.6	68.8	9.3	21.1
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°	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1	815.1
2.5°	812.5	803.4	790.8	775.4	757.5	741.5	729.6	717.2	714.7	710.4	709.8
5°	807.1	791.2	760.1	724.7	686.7	652.3	624.6	599.8	588.7	579.2	578.1
7.5°	799.2	775.2	722.4	665.1	605.8	551.9	506.3	473.9	444.1	429.8	427.8
10°	789.9	755.7	679.9	600.4	518.5	442.3	374.6	317.6	283.1	262.6	260.0
12.5°	781.3	736.5	636.7	533.4	424.4	322.8	235.4	181.1	144.8	130.3	128.5
15°	777.3	720.9	596.1	464.9	326.2	205.4	128.6	99.6	87.8	84.4	84.1
17.5°	776.8	707.9	556.4	393.8	228.4	119.5	83.8	76.5	74.2	73.3	73.3
20°	776.6	695.3	516.7	320.3	145.0	79.6	69.9	68.1	66.5	65.3	65.3
22.5°	778.9	684.1	475.5	245.3	91.4	64.5	61.4	59.6	57.5	56.1	55.9
25°	781.3	675.4	433.2	174.6	66.1	56.1	53.0	50.7	47.6	45.8	45.5
27.5°	781.7	664.7	387.9	116.9	55.4	49.0	45.0	41.4	38.0	36.0	35.8
30°	775.2	646.6	337.7	79.0	49.0	42.5	37.3	33.3	30.3	28.7	28.7
32.5°	762.5	624.1	282.4	59.5	43.6	36.4	30.8	27.2	25.1	24.3	24.2
35°	751.2	600.0	225.7	50.5	39.0	30.8	25.2	22.8	21.6	21.3	21.1
37.5°	744.4	580.6	172.5	45.8	34.8	26.0	21.3	19.7	19.0	18.5	18.8
40°	749.6	564.5	127.4	41.9	30.5	21.6	18.1	17.2	16.6	16.3	16.3
42.5°	772.3	561.6	94.6	38.4	26.3	17.8	15.7	15.1	14.6	14.5	14.6
45°	831.8	578.9	73.5	35.2	22.2	15.1	13.4	13.1	12.9	12.9	12.9
47.5°	921.2	614.4	61.3	31.5	18.5	12.9	11.7	11.4	11.1	11.4	11.4
50°	1072.8	679.6	54.7	27.8	15.4	11.0	9.9	9.9	9.9	9.9	10.2
52.5°	1303.4	807.7	50.5	24.2	12.4	9.3	8.4	8.4	8.7	8.7	8.9
55°	1560.0	977.4	46.5	20.5	10.6	7.7	6.8	7.0	7.4	7.5	7.5
57.5°	1838.7	1165.7	43.4	16.8	9.1	6.3	5.7	6.1	6.3	6.6	6.6
60°	2174.6	1369.5	38.5	13.1	7.5	5.0	4.5	5.0	5.6	6.1	6.3
62.5°	2543.8	1566.6	32.6	10.3	6.3	4.0	3.7	4.5	5.4	5.7	6.1
65°	2796.1	1628.4	25.1	8.4	4.8	2.9	3.1	4.1	5.2	5.7	5.7
67°	2693.8	1476.4	20.5	7.0	4.0	2.2	2.9	4.1	5.2	5.6	5.7
67.5°	2623.0	1416.8	19.7	6.8	3.7	2.2	2.9	4.1	5.2	5.7	5.7
70°	2134.2	1064.4	16.3	5.2	3.1	1.9	2.3	4.0	5.0	5.6	5.6
72.5°	1482.8	656.3	14.6	3.7	2.5	1.7	2.2	3.7	4.8	5.4	5.6
75°	705.0	237.6	12.4	2.9	2.3	1.4	1.9	3.7	4.8	5.4	5.4
77.5°	143.8	55.2	10.2	2.3	1.9	1.4	1.7	3.5	4.5	5.2	5.2
80°	47.3	21.3	7.5	2.2	1.9	1.4	1.7	3.2	4.5	5.0	5.2
82.5°	34.0	10.8	5.0	2.2	1.9	1.4	1.4	3.2	4.3	5.0	5.0
85°	26.1	7.5	3.2	2.2	1.9	1.4	1.4	3.1	4.1	4.8	4.8
87.5°	17.2	3.1	2.5	2.2	1.9	1.4	1.4	3.1	4.0	4.5	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

(END OF REPORT)