

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: P270090

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270090
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: GWC-AF-01-LED-E1-SL2-7027-800-HSS
Description: GALLEON WALL 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: 3633.6 lumens
Efficiency: N/A
Efficacy: 82.6 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

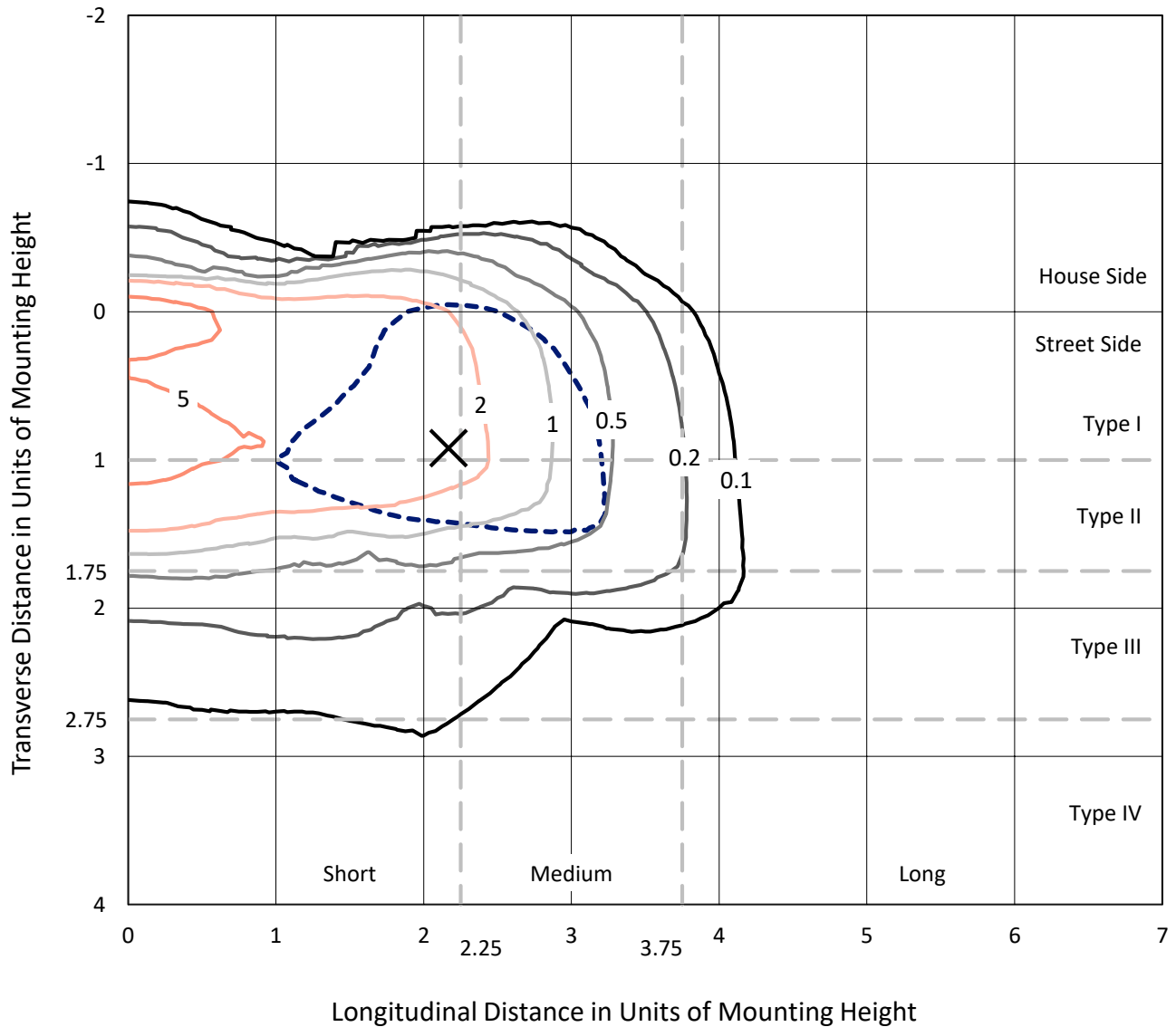


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

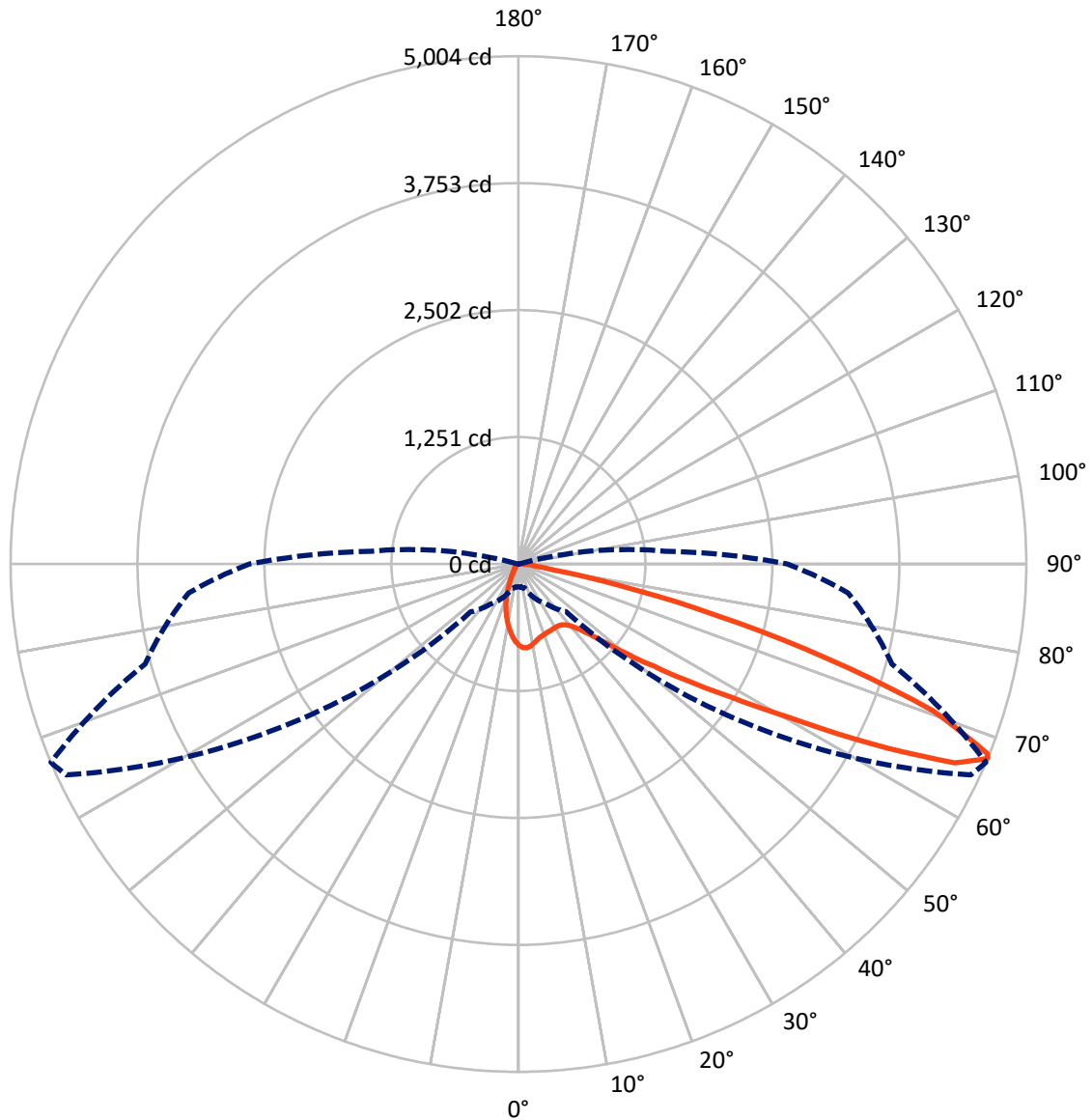


Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - Semi-Cutoff

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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	377.3	0.0	377.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3256.3	0.0	3256.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	3633.6	0.0	3633.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	1.8
10°-20°	138.8	3.8
20°-30°	201.8	5.6
30°-40°	314.8	8.7
40°-50°	557.6	15.3
50°-60°	882.4	24.3
60°-70°	1010.6	27.8
70°-80°	419.2	11.5
80°-90°	43.3	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°	3633.6	100.0
0°-180°	3633.6	100.0



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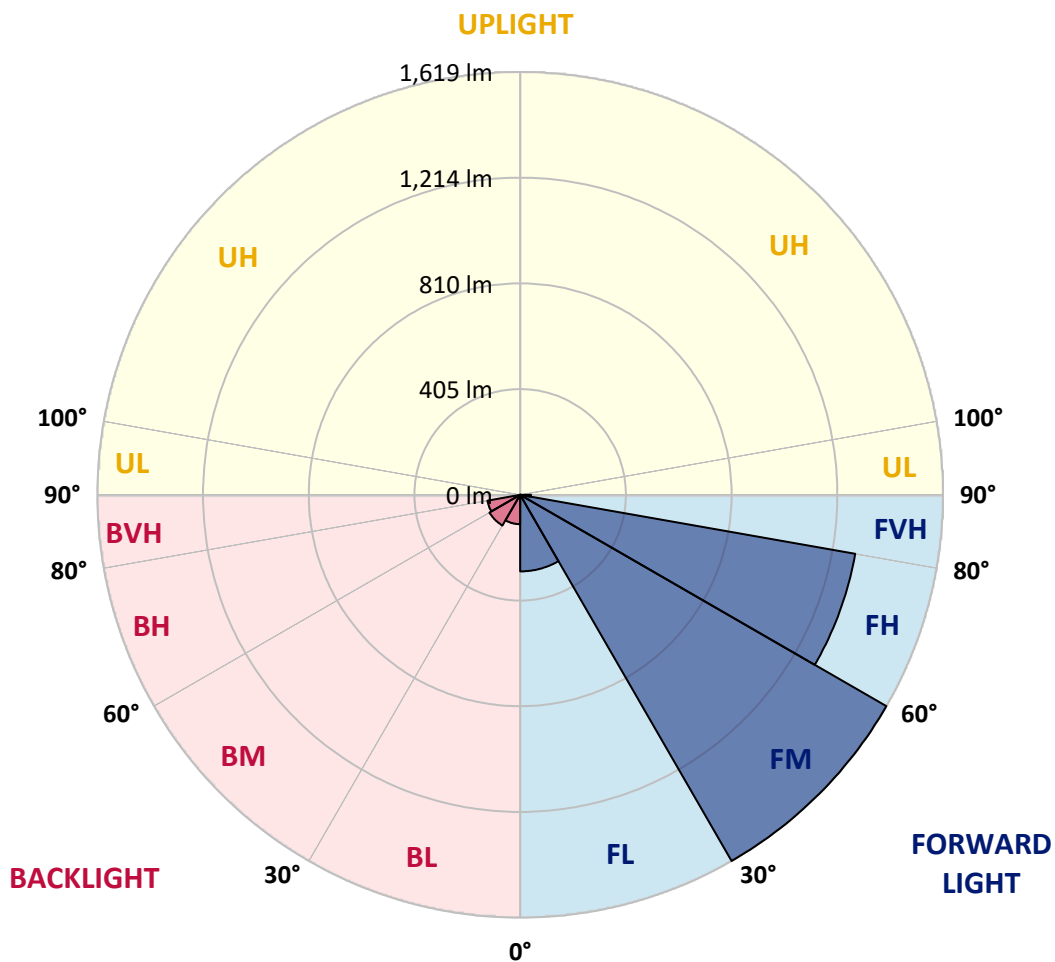
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	293.2	8.1			
FM (30°-60°)	1619.1	44.6			
FH (60°-80°)	1302.7	35.9			G1/1800
FVH (80°-90°)	41.4	1.1			G1/100
BL (0°-30°)	112.6	3.1	B1/500		
BM (30°-60°)	135.6	3.7	B0/220		
BH (60°-80°)	127.2	3.5	B1/500		G1/500
BVH (80°-90°)	1.9	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°	801.3	801.3	801.3	801.3	801.3	801.3	801.3	801.3	801.3	801.3	801.3
2.5°	828.5	830.1	829.9	831.2	834.2	834.4	831.4	825.7	824.5	817.0	804.1
5°	764.1	768.9	771.9	784.0	797.5	813.9	826.1	830.7	829.9	824.6	805.2
7.5°	690.5	695.4	698.7	712.9	731.0	759.0	791.0	817.2	819.5	825.4	804.3
10°	641.6	642.4	647.0	660.6	679.5	708.1	746.2	792.2	799.2	820.2	802.2
12.5°	601.3	601.9	608.1	622.7	642.7	671.7	711.6	764.9	775.8	813.9	801.8
15°	572.7	574.9	580.6	595.8	617.2	645.8	686.8	744.8	757.7	811.5	805.5
17.5°	563.1	565.7	567.4	578.4	597.9	625.9	668.1	731.7	746.2	812.8	813.0
20°	573.1	574.9	571.2	573.9	586.1	611.0	652.2	720.4	737.7	814.2	822.5
22.5°	610.1	611.0	600.6	588.6	586.4	600.2	639.6	711.5	730.1	818.3	833.8
25°	673.7	672.3	655.3	629.3	604.6	598.3	632.2	706.0	726.4	822.5	845.4
27.5°	750.4	752.6	729.3	691.3	644.5	611.0	631.2	703.6	724.6	825.5	855.6
30°	843.8	846.7	820.1	772.3	705.1	642.4	640.9	703.2	723.5	823.6	856.5
32.5°	938.9	942.5	921.5	872.3	786.0	695.0	662.9	707.9	725.7	817.0	851.6
35°	1038.4	1043.6	1029.5	987.4	895.9	770.8	701.8	722.1	735.6	816.4	846.7
37.5°	1176.1	1180.6	1154.4	1109.8	1028.7	872.5	764.1	748.8	759.2	826.6	848.0
40°	1381.5	1380.8	1313.0	1244.5	1174.8	1001.8	851.6	797.1	802.4	857.3	863.6
42.5°	1605.2	1604.2	1503.9	1399.9	1336.9	1161.0	966.7	880.6	877.0	913.9	904.3
45°	1777.7	1777.6	1695.7	1578.5	1532.1	1343.8	1115.4	996.8	991.3	1005.8	979.4
47.5°	1851.2	1852.6	1811.5	1729.0	1748.5	1590.8	1303.0	1165.0	1156.7	1150.9	1110.6
50°	1794.0	1796.6	1800.0	1783.9	1907.2	1922.9	1554.5	1402.3	1398.1	1371.7	1308.7
52.5°	1607.2	1620.1	1659.9	1711.0	1962.4	2241.7	1949.0	1696.8	1675.2	1647.0	1577.7
55°	1292.2	1306.4	1382.0	1506.0	1880.3	2451.1	2501.8	2076.5	2040.6	1956.4	1856.3
57.5°	855.2	877.2	987.1	1144.7	1642.1	2484.8	3053.2	2603.6	2478.2	2247.8	2135.1
60°	471.2	492.4	611.4	754.3	1186.0	2318.3	3424.2	3290.0	3068.3	2573.6	2473.6
62.5°	290.2	301.7	389.5	522.5	711.3	1829.7	3500.9	4152.3	3895.7	2993.1	2882.4
65°	231.0	235.9	278.9	427.1	509.9	1088.4	3253.0	4809.8	4724.2	3500.9	3248.5
67°	224.2	226.2	246.5	366.6	480.7	667.2	2725.3	4916.8	5003.6	3808.2	3259.9
67.5°	225.7	227.8	247.1	350.0	479.8	613.2	2543.6	4874.6	4984.4	3832.4	3209.2
70°	217.7	224.2	282.9	349.6	456.2	509.5	1523.2	4223.6	4337.7	3561.1	2723.0
72.5°	77.2	77.6	122.3	282.9	496.1	515.0	764.9	3096.2	3180.8	2724.0	1963.2
75°	45.7	39.0	40.7	80.6	474.1	500.2	441.2	1978.4	2010.0	1560.9	994.2
77.5°	31.5	27.6	28.4	35.6	180.6	493.3	350.5	1031.7	998.0	547.4	211.7
80°	18.1	15.9	17.0	31.2	65.7	460.1	330.7	418.3	356.7	92.8	58.5
82.5°	9.5	8.0	9.7	25.7	45.7	286.7	331.2	202.2	160.3	31.4	39.9
85°	3.4	2.8	4.7	17.5	30.5	88.0	307.1	170.0	133.6	15.3	30.3
87.5°	0.7	0.7	1.9	7.3	12.2	26.9	181.6	100.9	67.6	9.1	20.8
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°	801.3	801.3	801.3	801.3	801.3	801.3	801.3	801.3	801.3	801.3	801.3
2.5°	798.8	789.7	777.4	762.3	744.6	728.9	717.2	705.1	702.6	698.3	697.7
5°	793.5	777.8	747.3	712.4	675.0	641.3	614.0	589.6	578.8	569.4	568.4
7.5°	785.7	762.1	710.2	653.9	595.6	542.6	497.7	465.9	436.6	422.6	420.5
10°	776.5	742.8	668.4	590.3	509.7	434.9	368.2	312.3	278.3	258.1	255.6
12.5°	768.1	724.0	625.9	524.3	417.3	317.3	231.5	178.0	142.4	128.0	126.3
15°	764.1	708.7	586.1	457.0	320.6	201.9	126.5	97.9	86.2	82.9	82.6
17.5°	763.6	695.8	547.0	387.2	224.6	117.4	82.4	75.3	72.9	72.0	72.0
20°	763.4	683.5	508.0	314.9	142.6	78.2	68.7	66.9	65.3	64.2	64.2
22.5°	765.7	672.5	467.4	241.2	89.8	63.4	60.4	58.7	56.5	55.1	54.9
25°	768.1	664.0	425.8	171.7	65.0	55.1	52.1	49.8	46.8	45.0	44.6
27.5°	768.5	653.4	381.3	114.9	54.5	48.1	44.3	40.7	37.4	35.4	35.2
30°	762.1	635.6	331.9	77.6	48.1	41.8	36.7	32.8	29.7	28.2	28.2
32.5°	749.5	613.5	277.7	58.5	42.8	35.8	30.3	26.8	24.6	23.9	23.7
35°	738.4	589.8	221.9	49.6	38.4	30.3	24.8	22.5	21.2	20.9	20.8
37.5°	731.8	570.7	169.5	45.0	34.1	25.5	20.9	19.3	18.6	18.2	18.4
40°	737.0	554.9	125.2	41.1	29.9	21.2	17.9	17.0	16.3	16.1	16.1
42.5°	759.2	552.1	93.0	37.7	25.9	17.5	15.5	14.8	14.4	14.2	14.4
45°	817.7	569.1	72.2	34.6	21.8	14.8	13.1	12.9	12.8	12.8	12.8
47.5°	905.6	604.0	60.2	31.0	18.2	12.8	11.5	11.2	11.0	11.2	11.2
50°	1054.6	668.1	53.8	27.3	15.1	10.8	9.7	9.7	9.7	9.7	10.0
52.5°	1281.3	794.0	49.6	23.7	12.2	9.1	8.3	8.3	8.5	8.5	8.7
55°	1533.6	960.9	45.7	20.1	10.4	7.6	6.7	6.9	7.3	7.5	7.5
57.5°	1807.5	1146.0	42.7	16.5	8.9	6.2	5.7	6.0	6.2	6.6	6.6
60°	2137.8	1346.3	37.9	12.9	7.5	4.9	4.4	4.9	5.5	6.0	6.2
62.5°	2500.7	1540.0	32.1	10.2	6.2	3.9	3.6	4.4	5.3	5.7	6.0
65°	2748.6	1600.8	24.6	8.3	4.7	2.8	3.0	4.0	5.1	5.7	5.7
67°	2648.2	1451.3	20.1	6.9	3.9	2.2	2.8	4.0	5.1	5.5	5.7
67.5°	2578.5	1392.8	19.3	6.7	3.6	2.2	2.8	4.0	5.1	5.7	5.7
70°	2098.0	1046.3	16.1	5.1	3.0	1.9	2.3	3.9	4.9	5.5	5.5
72.5°	1457.7	645.2	14.4	3.6	2.5	1.7	2.2	3.6	4.7	5.3	5.5
75°	693.0	233.6	12.2	2.8	2.3	1.4	1.9	3.6	4.7	5.3	5.3
77.5°	141.4	54.3	10.0	2.3	1.9	1.4	1.7	3.4	4.4	5.1	5.1
80°	46.4	20.9	7.5	2.2	1.9	1.4	1.7	3.1	4.4	4.9	5.1
82.5°	33.5	10.6	4.9	2.2	1.9	1.4	1.4	3.1	4.2	4.9	4.9
85°	25.7	7.5	3.1	2.2	1.9	1.4	1.4	3.0	4.0	4.7	4.7
87.5°	17.0	3.0	2.5	2.2	1.9	1.4	1.4	3.0	3.9	4.4	4.7
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)