

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: P199949

Luminaire Tested: **GWC-AF-01-LED-E1-SL2-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199949
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-SL2-7030-800-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 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: 4045 lumens
Efficiency: N/A
Efficacy: 91.9 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

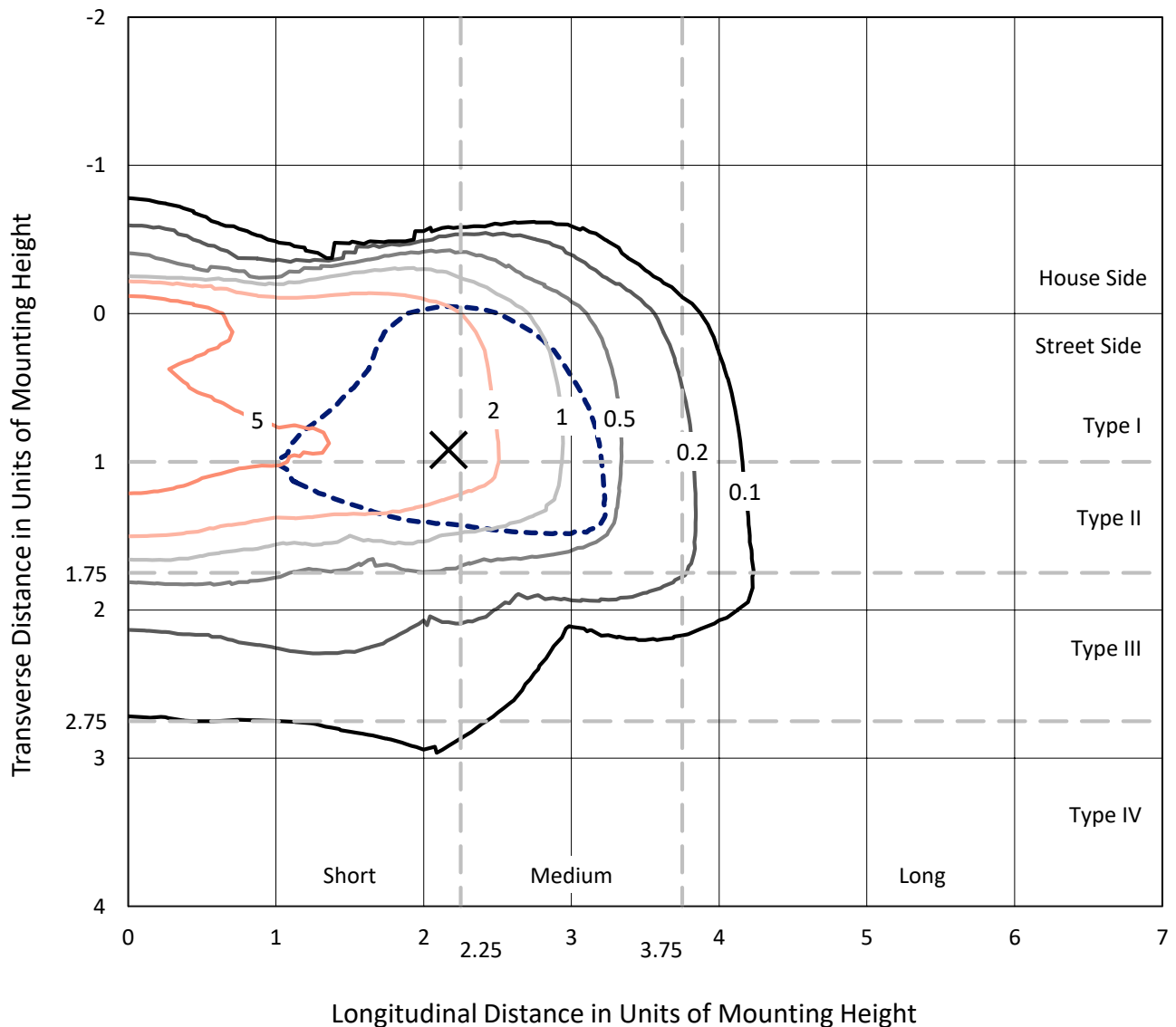


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

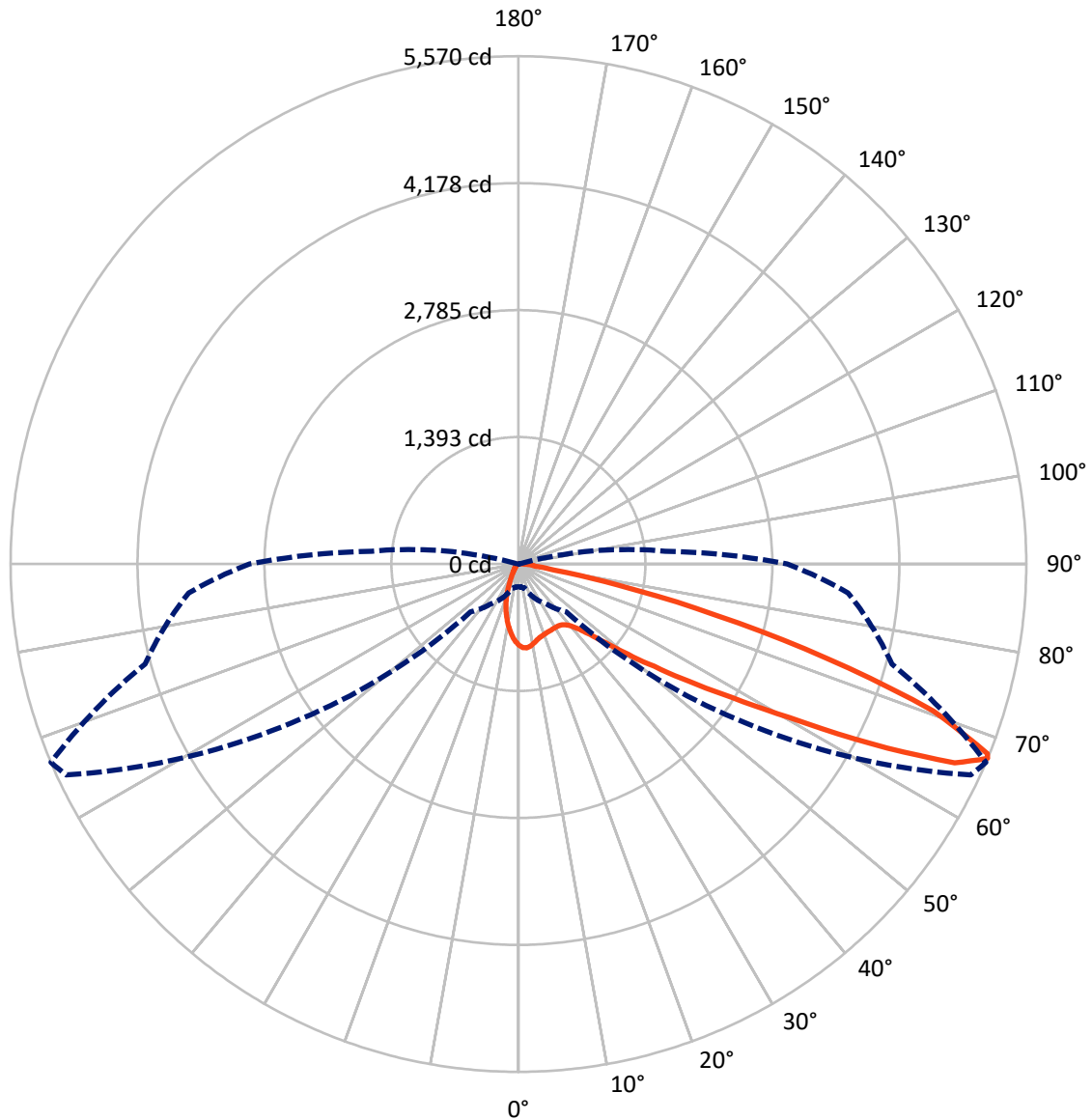


Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - Semi-Cutoff

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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	420.0	0.0	420.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3625.0	0.0	3625.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	4045.0	0.0	4045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.8
10°-20°	154.5	3.8
20°-30°	224.6	5.6
30°-40°	350.4	8.7
40°-50°	620.7	15.3
50°-60°	982.3	24.3
60°-70°	1125.0	27.8
70°-80°	466.6	11.5
80°-90°	48.2	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°	4045.0	100.0
0°-180°	4045.0	100.0

Coefficient of Utilization



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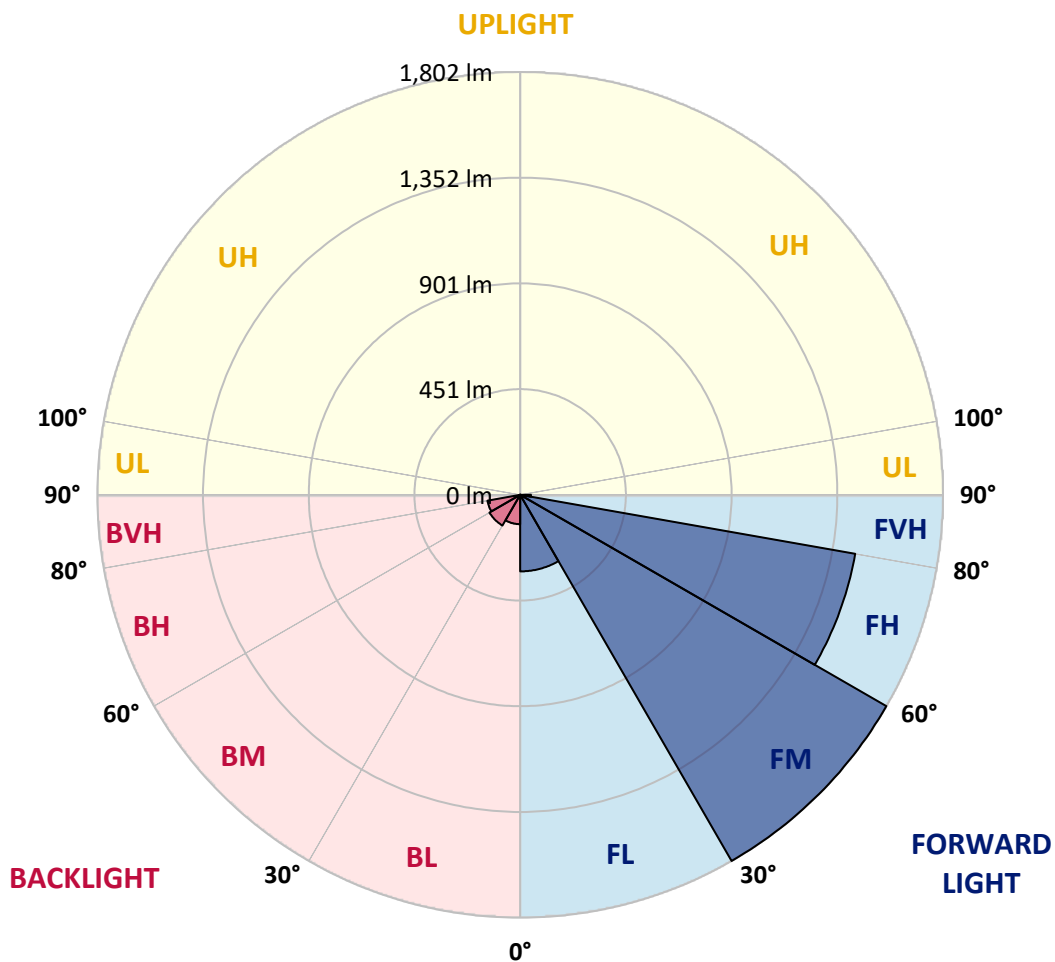
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	326.4	8.1			
FM (30°-60°)	1802.4	44.6			
FH (60°-80°)	1450.1	35.9			G1/1800
FVH (80°-90°)	46.0	1.1			G1/100
BL (0°-30°)	125.3	3.1	B1/500		
BM (30°-60°)	150.9	3.7	B0/220		
BH (60°-80°)	141.6	3.5	B1/500		G1/500
BVH (80°-90°)	2.2	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°	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0
2.5°	922.3	924.1	923.9	925.3	928.6	928.9	925.5	919.2	917.8	909.5	895.1
5°	850.6	855.9	859.3	872.7	887.8	906.0	919.6	924.7	923.9	918.0	896.3
7.5°	768.7	774.1	777.8	793.6	813.7	844.9	880.5	909.7	912.3	918.8	895.3
10°	714.2	715.1	720.3	735.4	756.4	788.3	830.7	881.9	889.7	913.1	893.0
12.5°	669.4	670.0	676.9	693.2	715.5	747.7	792.2	851.5	863.6	906.0	892.6
15°	637.5	640.0	646.3	663.2	687.1	718.9	764.6	829.1	843.5	903.4	896.7
17.5°	626.8	629.7	631.6	643.9	665.6	696.8	743.7	814.5	830.7	904.8	905.0
20°	638.0	640.0	635.9	638.9	652.4	680.2	726.0	801.9	821.2	906.4	915.6
22.5°	679.2	680.2	668.6	655.2	652.8	668.2	712.0	792.0	812.8	910.9	928.2
25°	750.0	748.4	729.5	700.5	673.1	666.0	703.8	785.9	808.6	915.6	941.1
27.5°	835.4	837.8	811.9	769.6	717.5	680.2	702.7	783.3	806.6	919.0	952.5
30°	939.3	942.5	912.9	859.7	784.9	715.1	713.5	782.8	805.4	916.8	953.5
32.5°	1045.2	1049.2	1025.8	971.1	875.0	773.7	738.0	788.0	807.8	909.5	948.0
35°	1156.0	1161.7	1146.1	1099.2	997.3	858.1	781.2	803.8	818.9	908.8	942.5
37.5°	1309.2	1314.3	1285.1	1235.4	1145.2	971.3	850.6	833.6	845.1	920.2	944.0
40°	1537.9	1537.1	1461.6	1385.4	1307.8	1115.2	948.0	887.3	893.2	954.3	961.4
42.5°	1786.9	1785.8	1674.2	1558.4	1488.2	1292.4	1076.1	980.3	976.3	1017.4	1006.7
45°	1979.0	1978.8	1887.7	1757.2	1705.5	1495.9	1241.7	1109.6	1103.5	1119.7	1090.3
47.5°	2060.8	2062.3	2016.6	1924.7	1946.4	1770.9	1450.5	1296.9	1287.7	1281.2	1236.3
50°	1997.1	2000.0	2003.8	1985.9	2123.1	2140.6	1730.5	1561.0	1556.4	1527.0	1456.9
52.5°	1789.1	1803.5	1847.8	1904.7	2184.6	2495.5	2169.6	1888.9	1864.8	1833.4	1756.3
55°	1438.5	1454.3	1538.5	1676.5	2093.2	2728.6	2785.0	2311.6	2271.6	2177.9	2066.5
57.5°	952.0	976.5	1098.8	1274.3	1828.0	2766.1	3398.9	2898.4	2758.8	2502.3	2376.8
60°	524.5	548.1	680.6	839.7	1320.3	2580.7	3811.8	3662.4	3415.6	2865.0	2753.6
62.5°	323.0	335.8	433.6	581.6	791.8	2036.8	3897.2	4622.4	4336.7	3331.9	3208.7
65°	257.1	262.6	310.5	475.4	567.6	1211.6	3621.3	5354.3	5259.0	3897.2	3616.2
67°	249.6	251.8	274.4	408.1	535.1	742.7	3033.8	5473.4	5570.1	4239.3	3628.9
67.5°	251.2	253.6	275.1	389.6	534.1	682.6	2831.5	5426.4	5548.7	4266.3	3572.5
70°	242.3	249.6	314.9	389.2	507.9	567.2	1695.6	4701.7	4828.8	3964.2	3031.3
72.5°	85.9	86.4	136.1	314.9	552.3	573.3	851.5	3446.7	3540.9	3032.4	2185.4
75°	50.9	43.4	45.3	89.7	527.8	556.8	491.2	2202.4	2237.6	1737.6	1106.7
77.5°	35.1	30.7	31.6	39.6	201.1	549.1	390.2	1148.5	1111.0	609.4	235.7
80°	20.1	17.7	18.9	34.7	73.1	512.2	368.1	465.7	397.1	103.3	65.1
82.5°	10.6	8.9	10.8	28.6	50.9	319.2	368.7	225.1	178.4	34.9	44.4
85°	3.8	3.1	5.2	19.5	33.9	98.0	341.9	189.3	148.7	17.0	33.7
87.5°	0.8	0.8	2.1	8.1	13.6	30.0	202.2	112.3	75.3	10.1	23.1
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°	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0	892.0
2.5°	889.2	879.1	865.4	848.6	828.9	811.4	798.4	784.9	782.1	777.4	776.7
5°	883.3	865.9	831.9	793.0	751.4	713.9	683.5	656.4	644.3	633.9	632.7
7.5°	874.6	848.4	790.6	727.9	663.0	604.0	554.0	518.6	486.0	470.4	468.1
10°	864.4	826.9	744.1	657.1	567.4	484.1	409.9	347.6	309.8	287.3	284.5
12.5°	855.1	806.0	696.8	583.7	464.5	353.2	257.7	198.2	158.5	142.5	140.6
15°	850.6	788.9	652.4	508.7	356.9	224.8	140.8	109.0	96.0	92.3	92.0
17.5°	850.0	774.6	608.9	431.0	250.0	130.7	91.7	83.8	81.2	80.2	80.2
20°	849.8	760.9	565.5	350.6	158.7	87.1	76.5	74.5	72.7	71.5	71.5
22.5°	852.4	748.6	520.3	268.5	100.0	70.6	67.2	65.3	62.9	61.3	61.1
25°	855.1	739.2	474.0	191.1	72.4	61.3	58.0	55.4	52.1	50.1	49.7
27.5°	855.5	727.4	424.5	127.9	60.7	53.6	49.3	45.3	41.6	39.4	39.2
30°	848.4	707.6	369.5	86.4	53.6	46.5	40.8	36.5	33.1	31.4	31.4
32.5°	834.4	683.0	309.1	65.1	47.7	39.8	33.7	29.8	27.4	26.6	26.4
35°	822.0	656.6	247.0	55.2	42.7	33.7	27.6	25.0	23.6	23.3	23.1
37.5°	814.7	635.3	188.7	50.1	38.0	28.4	23.3	21.5	20.7	20.3	20.5
40°	820.4	617.7	139.4	45.8	33.3	23.6	19.9	18.9	18.2	17.9	17.9
42.5°	845.1	614.6	103.5	42.0	28.8	19.5	17.2	16.5	16.0	15.8	16.0
45°	910.3	633.5	80.4	38.5	24.3	16.5	14.6	14.4	14.2	14.2	14.2
47.5°	1008.1	672.4	67.0	34.5	20.3	14.2	12.8	12.5	12.2	12.5	12.5
50°	1174.0	743.7	59.9	30.4	16.8	12.0	10.8	10.8	10.8	10.8	11.1
52.5°	1426.3	883.9	55.2	26.4	13.6	10.1	9.2	9.2	9.5	9.5	9.7
55°	1707.2	1069.7	50.9	22.4	11.6	8.5	7.5	7.7	8.1	8.3	8.3
57.5°	2012.1	1275.7	47.5	18.4	9.9	6.9	6.3	6.7	6.9	7.3	7.3
60°	2379.8	1498.7	42.2	14.4	8.3	5.5	4.9	5.5	6.1	6.7	6.9
62.5°	2783.8	1714.3	35.7	11.3	6.9	4.3	4.0	4.9	5.9	6.3	6.7
65°	3059.8	1782.0	27.4	9.2	5.2	3.1	3.3	4.5	5.7	6.3	6.3
67°	2948.0	1615.6	22.4	7.7	4.3	2.4	3.1	4.5	5.7	6.1	6.3
67.5°	2870.4	1550.5	21.5	7.5	4.0	2.4	3.1	4.5	5.7	6.3	6.3
70°	2335.5	1164.8	17.9	5.7	3.3	2.1	2.6	4.3	5.5	6.1	6.1
72.5°	1622.7	718.2	16.0	4.0	2.8	1.9	2.4	4.0	5.2	5.9	6.1
75°	771.5	260.0	13.6	3.1	2.6	1.6	2.1	4.0	5.2	5.9	5.9
77.5°	157.4	60.4	11.1	2.6	2.1	1.6	1.9	3.8	4.9	5.7	5.7
80°	51.7	23.3	8.3	2.4	2.1	1.6	1.9	3.5	4.9	5.5	5.7
82.5°	37.3	11.8	5.5	2.4	2.1	1.6	1.6	3.5	4.7	5.5	5.5
85°	28.6	8.3	3.5	2.4	2.1	1.6	1.6	3.3	4.5	5.2	5.2
87.5°	18.9	3.3	2.8	2.4	2.1	1.6	1.6	3.3	4.3	4.9	5.2
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)