

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: P200109

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200109
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-SL2-800-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 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: 4351.6 lumens
Efficiency: N/A
Efficacy: 98.9 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

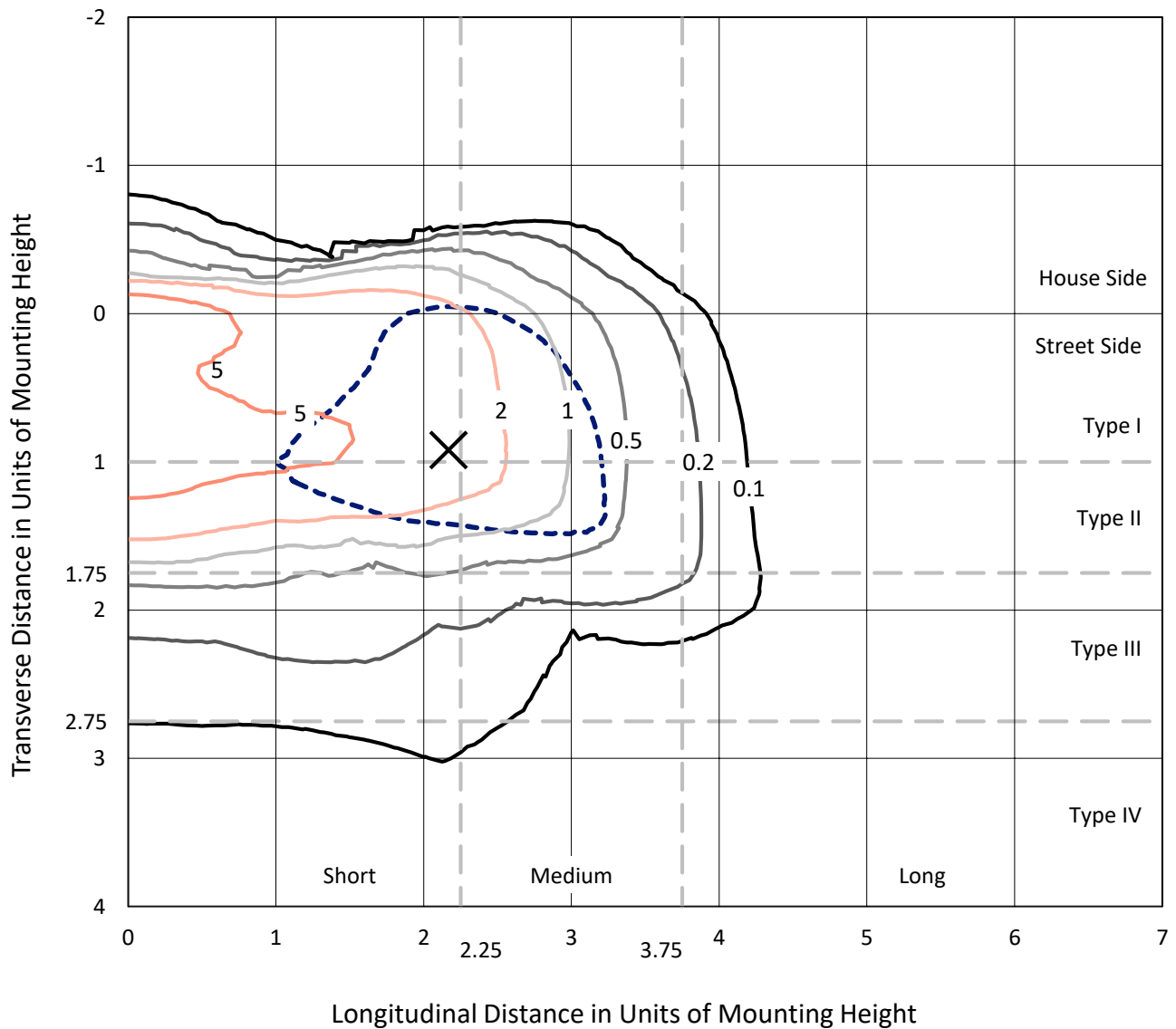
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

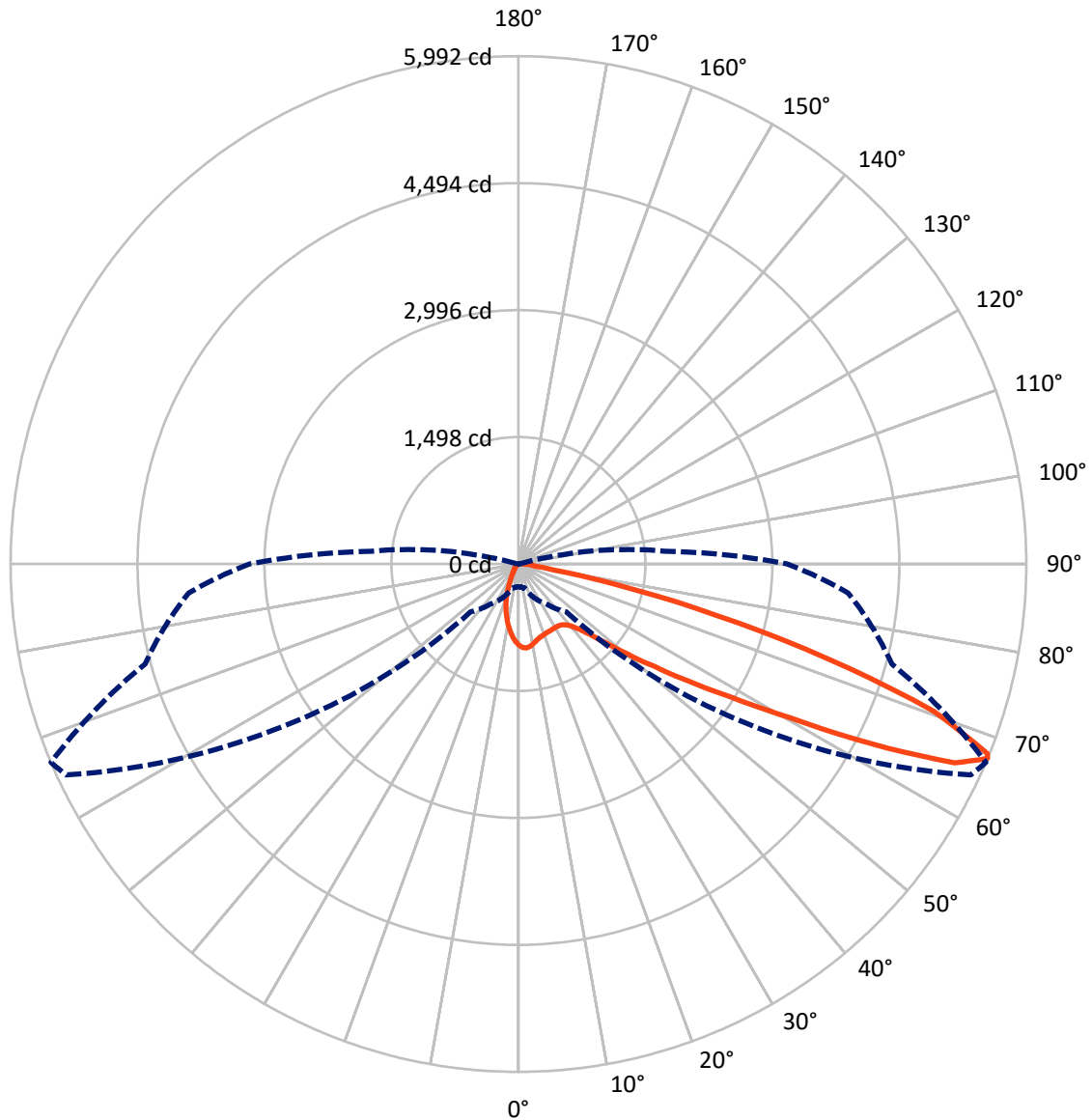
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 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	451.8	0.0	451.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3899.8	0.0	3899.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	4351.6	0.0	4351.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	1.8
10°-20°	166.2	3.8
20°-30°	241.6	5.6
30°-40°	377.0	8.7
40°-50°	667.8	15.3
50°-60°	1056.7	24.3
60°-70°	1210.3	27.8
70°-80°	502.0	11.5
80°-90°	51.9	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°	4351.6	100.0
0°-180°	4351.6	100.0



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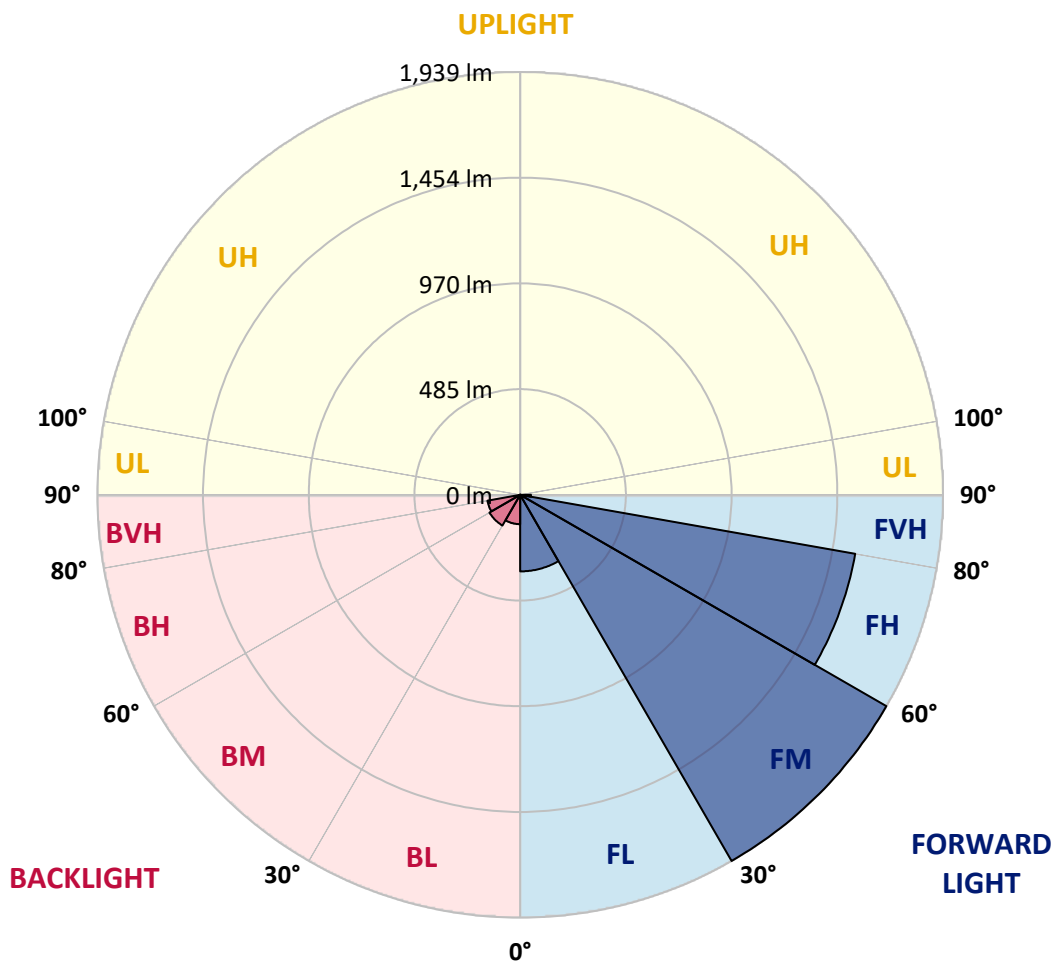
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.1	8.1			
FM	(30°-60°)	1939.1	44.6			
FH	(60°-80°)	1560.1	35.9			G1/1800
FVH	(80°-90°)	49.5	1.1			G1/100
BL	(0°-30°)	134.8	3.1	B1/500		
BM	(30°-60°)	162.4	3.7	B0/220		
BH	(60°-80°)	152.3	3.5	B1/500		G1/500
BVH	(80°-90°)	2.3	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°	959.7	959.7	959.7	959.7	959.7	959.7	959.7	959.7	959.7	959.7	959.7
2.5°	992.2	994.2	994.0	995.4	999.0	999.3	995.7	988.9	987.4	978.5	963.0
5°	915.0	920.9	924.4	938.9	955.1	974.7	989.4	994.7	994.0	987.7	964.2
7.5°	827.0	832.8	836.9	853.9	875.4	908.9	947.3	978.8	981.5	988.4	963.2
10°	768.3	769.4	774.9	791.2	813.8	848.0	893.8	948.8	957.2	982.2	960.8
12.5°	720.1	720.9	728.2	745.7	769.9	804.3	852.3	916.1	928.9	974.7	960.2
15°	685.8	688.7	695.2	713.5	739.1	773.4	822.7	891.9	907.5	971.9	964.7
17.5°	674.4	677.4	679.4	692.6	716.1	749.5	800.0	876.2	893.8	973.4	973.6
20°	686.3	688.7	684.0	687.3	701.8	731.7	781.0	862.8	883.5	975.2	985.1
22.5°	730.8	731.7	719.3	704.8	702.4	718.8	766.0	852.1	874.4	980.0	998.5
25°	806.9	805.2	784.8	753.6	724.1	716.6	757.2	845.5	869.8	985.1	1012.5
27.5°	898.8	901.3	873.4	828.0	771.9	731.7	755.9	842.7	867.8	988.7	1024.7
30°	1010.5	1014.1	982.0	925.0	844.4	769.4	767.5	842.2	866.5	986.3	1025.7
32.5°	1124.4	1128.7	1103.7	1044.7	941.4	832.3	793.9	847.7	869.1	978.5	1019.9
35°	1243.7	1249.8	1233.1	1182.5	1072.9	923.1	840.4	864.8	881.0	977.7	1014.1
37.5°	1408.5	1414.0	1382.5	1329.0	1232.0	1044.9	915.0	896.7	909.2	989.9	1015.6
40°	1654.4	1653.6	1572.4	1490.4	1407.0	1199.8	1019.9	954.6	961.0	1026.7	1034.3
42.5°	1922.4	1921.2	1801.1	1676.5	1601.1	1390.4	1157.7	1054.7	1050.3	1094.5	1083.1
45°	2129.1	2128.8	2030.9	1890.4	1834.9	1609.2	1335.9	1193.7	1187.1	1204.6	1172.9
47.5°	2217.1	2218.7	2169.4	2070.7	2094.0	1905.1	1560.5	1395.2	1385.4	1378.2	1330.0
50°	2148.6	2151.7	2155.7	2136.4	2284.1	2302.9	1861.8	1679.3	1674.5	1642.8	1567.4
52.5°	1924.7	1940.2	1987.9	2049.1	2350.1	2684.6	2334.2	2032.1	2006.2	1972.5	1889.4
55°	1547.5	1564.5	1655.1	1803.7	2251.9	2935.5	2996.1	2486.9	2443.8	2343.1	2223.2
57.5°	1024.2	1050.6	1182.0	1370.9	1966.6	2975.8	3656.5	3118.2	2967.9	2692.0	2557.0
60°	564.3	589.6	732.2	903.4	1420.4	2776.3	4100.7	3940.1	3674.5	3082.2	2962.4
62.5°	347.5	361.2	466.6	625.6	851.8	2191.3	4192.6	4972.9	4665.5	3584.4	3451.9
65°	276.7	282.5	334.0	511.5	610.7	1303.3	3895.9	5760.2	5657.6	4192.6	3890.3
67°	268.5	270.9	295.2	439.2	575.6	799.0	3263.9	5888.4	5992.4	4560.6	3904.0
67.5°	270.4	272.8	295.9	419.1	574.7	734.3	3046.1	5837.9	5969.3	4589.9	3843.3
70°	260.6	268.5	338.8	418.8	546.5	610.2	1824.2	5058.2	5195.0	4264.7	3261.1
72.5°	92.4	92.9	146.5	338.8	594.2	616.7	916.1	3708.1	3809.4	3262.4	2351.2
75°	54.8	46.7	48.7	96.5	567.8	599.0	528.5	2369.5	2407.2	1869.3	1190.7
77.5°	37.8	33.0	34.0	42.7	216.3	590.7	419.8	1235.6	1195.2	655.6	253.6
80°	21.6	19.0	20.4	37.3	78.7	551.1	396.0	501.0	427.2	111.2	70.1
82.5°	11.5	9.6	11.7	30.7	54.8	343.4	396.7	242.1	191.9	37.5	47.7
85°	4.1	3.3	5.6	21.1	36.5	105.4	367.8	203.6	159.9	18.3	36.3
87.5°	0.7	0.7	2.3	8.6	14.7	32.2	217.5	120.8	81.0	10.9	24.9
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°	959.7	959.7	959.7	959.7	959.7	959.7	959.7	959.7	959.7	959.7	959.7
2.5°	956.7	945.7	931.0	913.0	891.7	872.9	859.0	844.4	841.4	836.4	835.5
5°	950.3	931.5	895.0	853.1	808.4	768.0	735.3	706.1	693.2	682.0	680.8
7.5°	940.9	912.8	850.6	783.1	713.2	649.8	596.0	557.9	522.8	506.2	503.6
10°	930.0	889.7	800.6	706.9	610.4	520.9	440.9	373.9	333.3	309.1	306.1
12.5°	919.8	867.1	749.5	628.0	499.8	379.9	277.2	213.2	170.5	153.3	151.3
15°	915.0	848.7	701.8	547.3	384.0	241.9	151.5	117.2	103.3	99.2	99.0
17.5°	914.5	833.3	655.1	463.7	269.0	140.7	98.7	90.1	87.4	86.3	86.3
20°	914.2	818.6	608.5	377.2	170.8	93.7	82.2	80.2	78.2	76.9	76.9
22.5°	917.1	805.4	559.7	288.9	107.6	75.9	72.3	70.3	67.7	66.0	65.8
25°	919.8	795.2	509.9	205.6	77.9	66.0	62.4	59.6	56.1	53.8	53.6
27.5°	920.3	782.6	456.6	137.6	65.3	57.6	53.1	48.7	44.7	42.4	42.1
30°	912.8	761.2	397.5	92.9	57.6	50.0	43.9	39.4	35.5	33.8	33.8
32.5°	897.7	734.8	332.5	70.1	51.2	42.9	36.3	32.0	29.5	28.6	28.4
35°	884.3	706.3	265.8	59.4	45.9	36.3	29.7	26.9	25.4	25.2	24.9
37.5°	876.5	683.5	203.1	53.8	40.8	30.5	25.2	23.1	22.3	21.8	22.1
40°	882.5	664.5	150.0	49.2	35.8	25.4	21.3	20.4	19.5	19.3	19.3
42.5°	909.2	661.2	111.4	45.2	31.0	21.1	18.5	17.8	17.3	17.0	17.3
45°	979.3	681.5	86.5	41.3	26.2	17.8	15.8	15.4	15.2	15.2	15.2
47.5°	1084.5	723.4	72.1	37.0	21.8	15.2	13.7	13.5	13.2	13.5	13.5
50°	1263.0	800.0	64.4	32.7	18.0	13.0	11.7	11.7	11.7	11.7	12.0
52.5°	1534.3	950.8	59.4	28.4	14.7	10.9	9.9	9.9	10.1	10.1	10.4
55°	1836.6	1150.8	54.8	24.1	12.5	9.1	8.1	8.4	8.6	8.9	8.9
57.5°	2164.6	1372.4	51.0	19.8	10.6	7.4	6.9	7.1	7.4	7.9	7.9
60°	2560.2	1612.3	45.4	15.4	8.9	5.8	5.3	5.8	6.6	7.1	7.4
62.5°	2994.8	1844.3	38.4	12.2	7.4	4.6	4.3	5.3	6.3	6.9	7.1
65°	3291.8	1917.1	29.5	9.9	5.6	3.3	3.6	4.8	6.1	6.9	6.9
67°	3171.5	1738.2	24.1	8.4	4.6	2.6	3.3	4.8	6.1	6.6	6.9
67.5°	3088.0	1668.1	23.1	8.1	4.3	2.6	3.3	4.8	6.1	6.9	6.9
70°	2512.6	1253.1	19.3	6.1	3.6	2.3	2.8	4.6	5.8	6.6	6.6
72.5°	1745.8	772.6	17.3	4.3	3.1	2.0	2.6	4.3	5.6	6.3	6.6
75°	830.0	279.7	14.7	3.3	2.8	1.7	2.3	4.3	5.6	6.3	6.3
77.5°	169.3	65.0	12.0	2.8	2.3	1.7	2.0	4.1	5.3	6.1	6.1
80°	55.5	25.2	8.9	2.6	2.3	1.7	2.0	3.8	5.3	5.8	6.1
82.5°	40.1	12.7	5.8	2.6	2.3	1.7	1.7	3.8	5.1	5.8	5.8
85°	30.7	8.9	3.8	2.6	2.3	1.7	1.7	3.6	4.8	5.6	5.6
87.5°	20.4	3.6	3.1	2.6	2.3	1.7	1.7	3.6	4.6	5.3	5.6
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)