

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: P270098

Luminaire Tested: **GWC-AF-01-LED-E1-SL4-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7027-800-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3560.3 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - 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

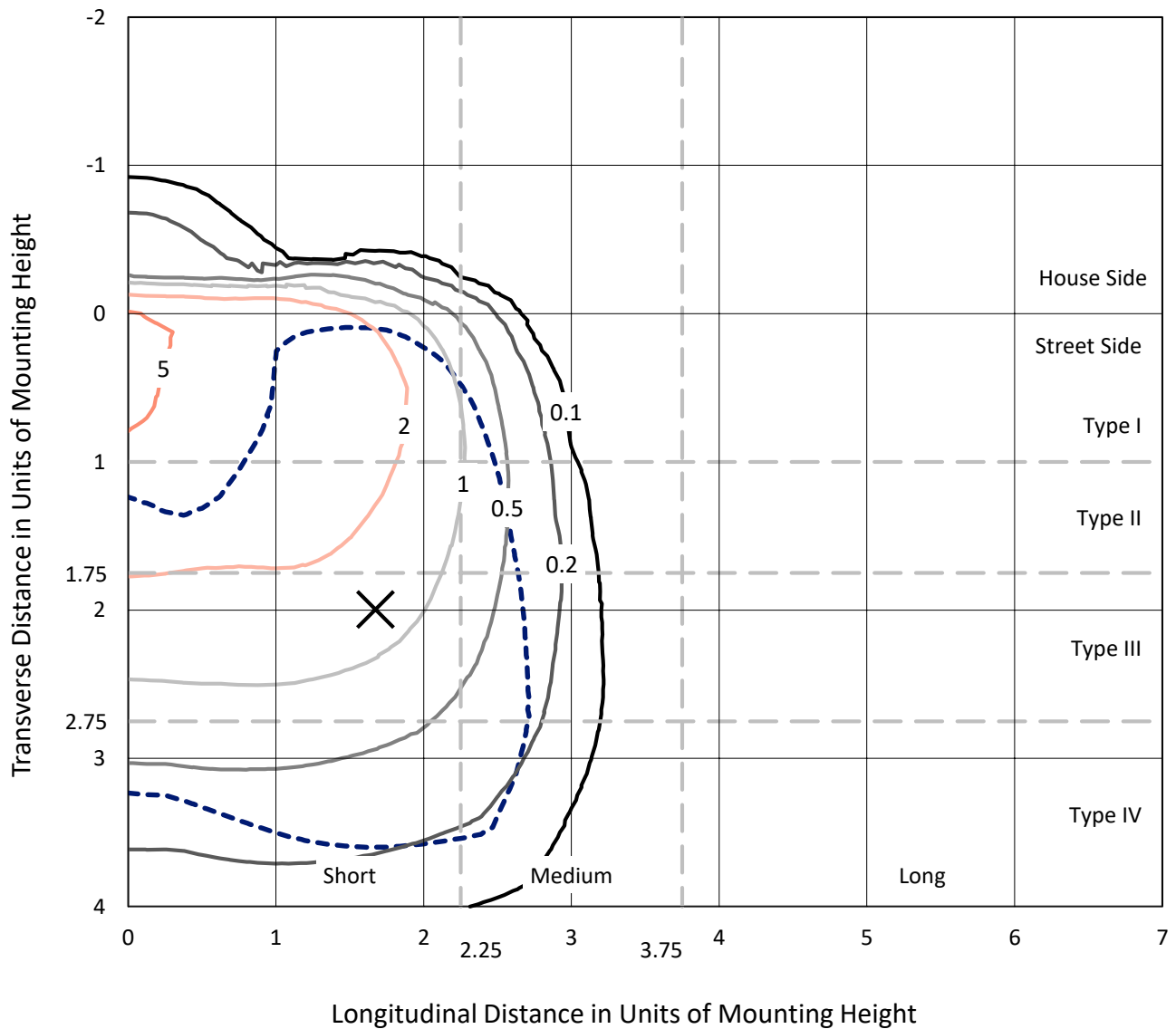


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

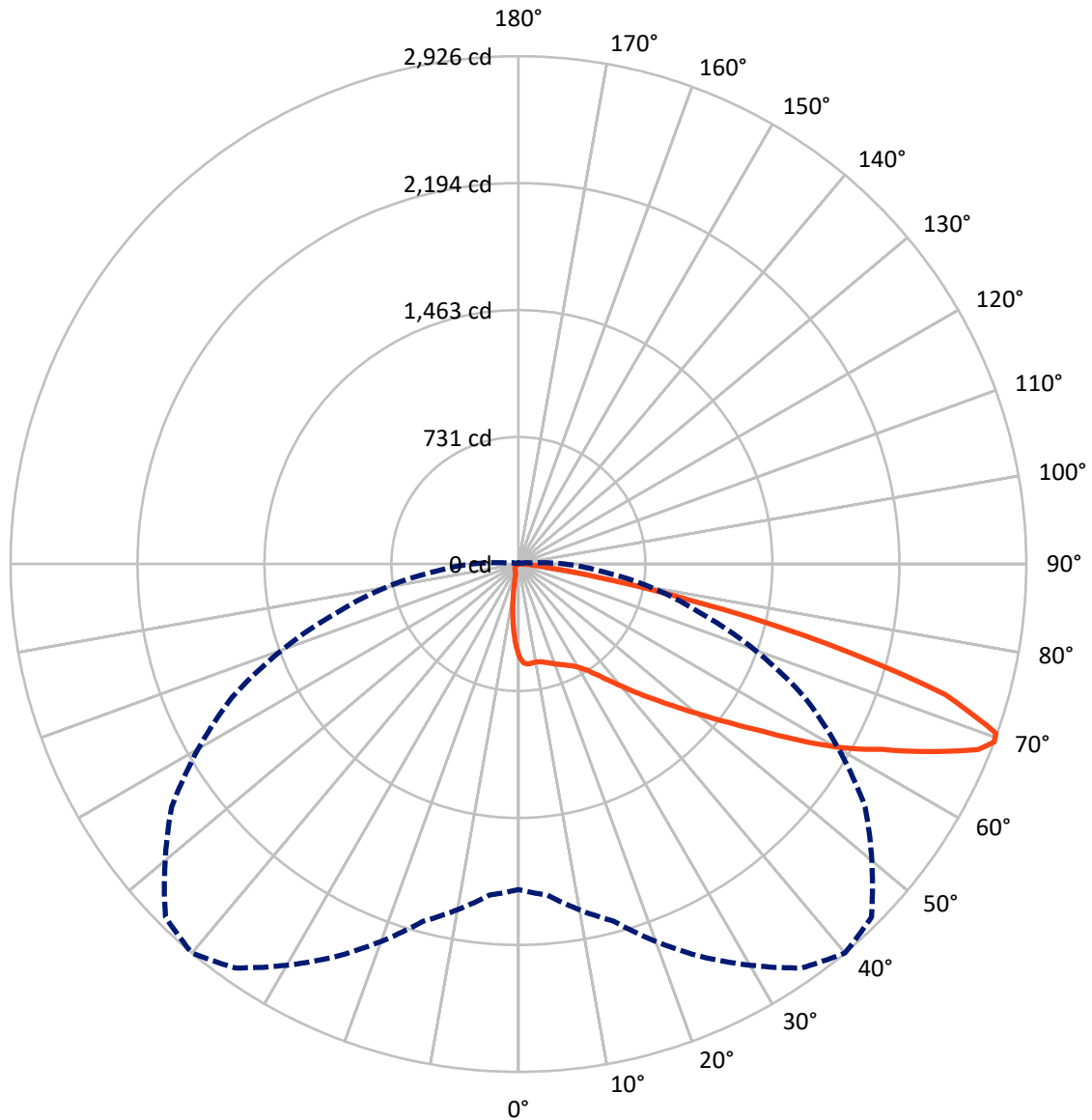


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	208.3	0.0	208.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	3352.0	0.0	3352.0
	% Fixture	94.1	0.0	94.1
Total	Lumens	3560.3	0.0	3560.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	1.2
10°-20°	106.1	3.0
20°-30°	178.6	5.0
30°-40°	292.4	8.2
40°-50°	506.4	14.2
50°-60°	797.6	22.4
60°-70°	1041.6	29.3
70°-80°	536.5	15.1
80°-90°	58.0	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°	3560.3	100.0
0°-180°	3560.3	100.0



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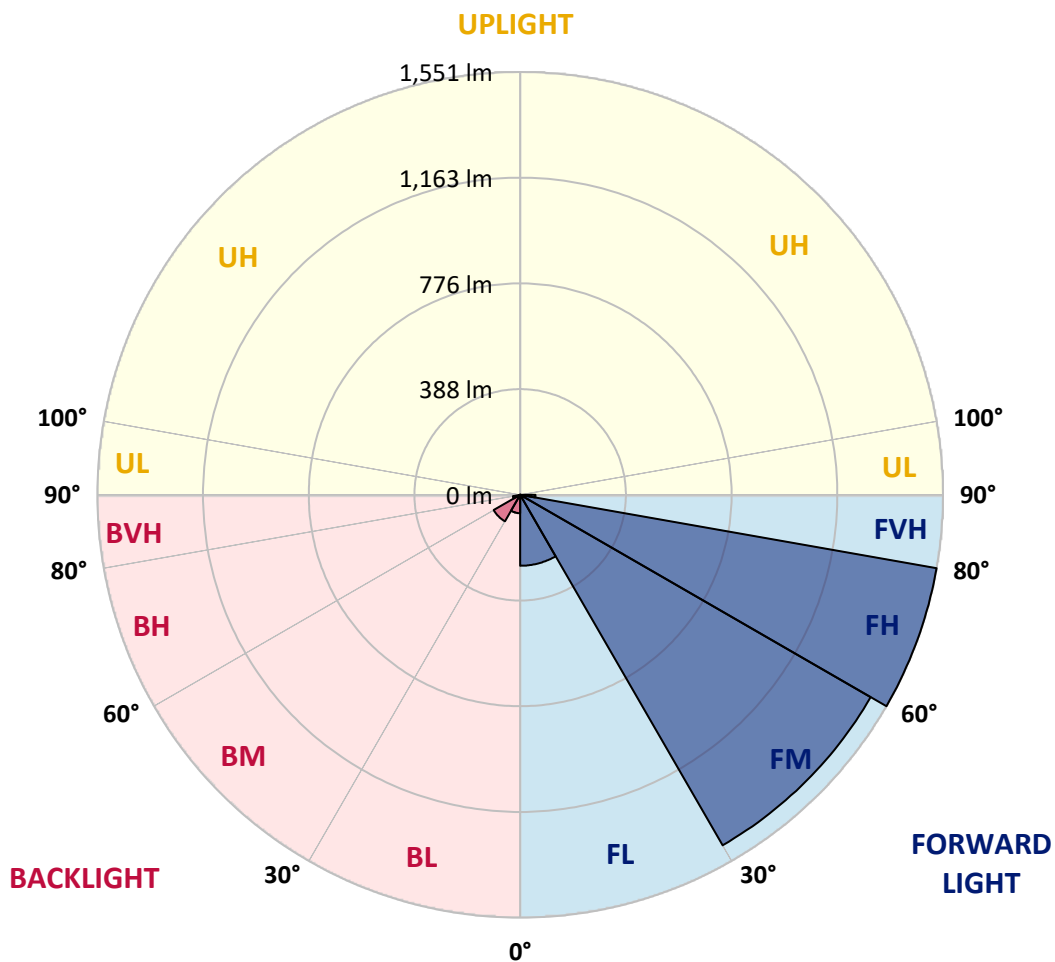
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.4	7.3			
FM	(30°-60°)	1484.4	41.7			
FH	(60°-80°)	1551.0	43.6			G1/1800
FVH	(80°-90°)	56.2	1.6			G1/100
BL	(0°-30°)	67.5	1.9	B0/110		
BM	(30°-60°)	112.0	3.1	B0/220		
BH	(60°-80°)	27.0	0.8	B0/110		G0/110
BVH	(80°-90°)	1.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9
2.5°	584.0	580.8	579.0	576.4	573.2	570.5	569.4	561.6	554.2	544.0	532.3
5°	594.9	593.8	590.4	587.0	583.3	579.0	576.6	567.4	556.7	541.9	521.5
7.5°	595.8	594.7	590.4	585.8	580.5	575.4	571.4	562.0	552.3	537.2	512.4
10°	594.2	592.7	589.6	584.5	578.0	573.0	569.0	560.1	551.9	538.3	510.7
12.5°	592.3	590.9	589.3	586.9	581.1	577.6	574.3	565.8	558.5	547.0	516.9
15°	594.2	593.4	595.1	594.0	590.9	587.9	584.5	576.9	570.1	560.5	528.1
17.5°	602.2	602.2	607.5	608.2	605.3	601.0	596.2	588.5	582.7	574.7	541.5
20°	621.2	620.5	627.3	628.6	621.4	614.8	607.5	598.3	593.8	588.7	554.6
22.5°	653.6	650.6	654.7	653.4	639.1	629.0	620.1	608.6	606.3	604.0	569.3
25°	695.7	694.0	696.8	684.2	659.3	645.5	634.9	622.1	622.1	624.3	585.8
27.5°	757.0	750.6	741.3	719.3	681.7	664.2	652.7	639.0	642.6	651.3	607.5
30°	819.7	812.7	791.2	757.4	709.0	690.6	677.3	662.9	671.3	687.3	636.8
32.5°	881.6	873.8	843.5	800.7	748.4	729.9	716.9	701.0	715.2	742.0	679.7
35°	941.6	934.5	899.7	849.2	800.5	785.2	773.4	759.5	777.8	815.0	740.0
37.5°	1009.0	1001.3	958.8	904.1	863.8	852.8	844.0	830.3	862.1	916.8	824.2
40°	1091.8	1078.9	1021.5	966.9	937.1	931.8	925.9	923.9	973.3	1049.0	936.3
42.5°	1186.8	1165.6	1087.2	1033.3	1017.6	1021.5	1019.9	1028.5	1112.6	1213.5	1072.8
45°	1281.7	1254.4	1160.3	1104.1	1106.2	1119.6	1127.8	1161.8	1287.0	1402.1	1219.5
47.5°	1362.3	1335.3	1230.4	1180.6	1206.1	1232.3	1254.8	1319.1	1466.3	1587.8	1333.8
50°	1431.2	1405.7	1304.8	1264.7	1321.9	1364.3	1400.7	1496.0	1659.2	1729.1	1414.0
52.5°	1487.5	1470.5	1382.0	1361.2	1454.4	1516.5	1569.9	1684.0	1829.9	1844.0	1476.2
55°	1542.4	1530.3	1464.9	1475.8	1609.9	1694.6	1762.1	1883.4	1977.1	1939.7	1536.0
57.5°	1605.5	1594.5	1559.3	1621.3	1814.5	1920.8	1994.6	2060.2	2106.5	2037.6	1592.4
60°	1669.9	1663.6	1664.5	1782.7	2049.3	2151.4	2192.1	2209.1	2233.6	2129.8	1595.6
62.5°	1731.4	1743.5	1784.6	1962.4	2274.1	2352.6	2373.1	2389.9	2361.0	2144.4	1474.1
65°	1835.4	1855.2	1953.4	2202.9	2521.5	2605.4	2626.6	2569.1	2381.1	1955.3	1199.1
67.5°	1886.3	1922.4	2097.4	2427.1	2761.4	2854.6	2846.8	2580.7	2136.9	1491.1	769.5
69°	1875.8	1914.0	2130.7	2495.8	2841.0	2925.6	2875.8	2438.2	1820.4	1080.1	472.4
70°	1833.8	1872.6	2113.5	2493.2	2851.2	2918.1	2822.0	2262.1	1539.2	789.8	295.5
72.5°	1531.3	1564.8	1876.4	2253.6	2626.6	2572.1	2360.7	1567.2	750.0	215.1	66.6
75°	942.7	961.3	1346.4	1697.7	1983.8	1844.0	1572.9	779.7	223.6	60.8	36.8
77.5°	498.0	506.5	737.1	1000.7	1257.5	1040.5	806.1	304.1	102.9	38.1	26.8
80°	294.4	300.8	397.0	457.5	544.2	454.5	322.3	186.7	73.8	23.9	23.7
82.5°	168.4	172.5	287.8	254.3	214.5	183.2	160.4	177.0	44.3	16.1	24.6
85°	61.8	62.7	161.9	193.5	127.6	75.8	79.7	146.7	11.9	10.2	19.3
87.5°	28.8	28.2	83.3	118.5	74.6	48.1	62.2	32.2	4.7	6.6	5.3
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°	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9
2.5°	525.5	517.7	503.6	488.9	474.0	462.6	451.4	442.5	439.5	434.0	434.5
5°	509.4	495.1	465.3	435.2	403.9	378.0	353.8	334.0	324.5	314.8	314.8
7.5°	495.4	474.5	428.1	379.1	328.4	285.8	247.5	218.7	202.8	190.1	189.9
10°	490.1	461.8	397.0	326.8	256.2	198.2	152.5	123.3	108.2	98.5	98.1
12.5°	492.5	457.3	373.0	278.5	189.9	127.4	88.4	69.4	63.2	60.2	60.2
15°	499.3	456.1	349.1	231.1	134.1	79.7	58.7	53.6	53.2	53.2	53.2
17.5°	507.5	456.4	324.5	185.2	91.4	57.0	50.7	49.9	50.5	50.5	50.5
20°	516.0	456.7	298.0	142.6	64.4	49.6	47.7	47.4	47.9	47.9	48.1
22.5°	526.4	457.7	271.5	106.6	53.2	46.8	45.4	45.4	45.5	45.5	45.4
25°	538.3	459.8	243.9	79.1	48.5	45.0	43.6	43.4	43.6	43.4	43.2
27.5°	553.2	462.8	213.3	61.8	46.4	43.0	42.0	42.0	41.8	41.6	41.3
30°	571.8	466.2	178.7	52.6	44.3	41.3	40.2	40.1	39.9	39.4	39.4
32.5°	600.2	473.7	144.5	47.7	42.0	39.0	38.1	38.1	37.7	37.4	37.0
35°	643.8	488.3	114.1	44.6	39.4	36.5	35.4	35.4	34.9	34.8	34.6
37.5°	704.3	510.5	88.6	42.0	36.8	33.7	32.6	32.4	32.1	31.5	31.4
40°	784.5	538.1	69.8	39.4	34.3	31.0	30.1	29.7	28.8	28.2	28.2
42.5°	885.5	569.4	56.5	36.7	31.4	28.4	27.8	27.1	25.7	25.0	24.8
45°	991.0	597.6	47.9	33.5	28.4	25.9	25.5	24.4	22.5	21.8	21.8
47.5°	1067.0	604.2	42.1	30.5	25.7	23.1	22.9	20.9	19.3	18.8	18.6
50°	1114.5	591.3	37.5	27.6	23.1	20.6	19.9	17.5	16.5	16.1	15.9
52.5°	1146.5	568.2	33.7	25.0	20.8	18.2	16.8	15.1	14.2	13.8	13.8
55°	1172.1	535.5	29.9	22.6	18.8	16.3	14.2	12.9	12.0	11.7	11.7
57.5°	1179.3	491.2	26.1	20.8	17.0	14.4	12.0	11.2	10.2	10.0	10.0
60°	1127.0	411.3	23.1	18.4	15.3	12.6	10.6	9.5	8.5	8.3	8.0
62.5°	989.0	318.3	20.4	16.3	13.3	10.8	9.1	7.8	6.9	6.9	6.9
65°	754.4	213.4	17.9	14.2	11.7	9.1	7.8	6.4	6.0	6.0	6.2
67.5°	451.7	116.2	15.3	12.0	10.0	7.6	6.6	5.5	5.3	5.5	5.5
69°	264.6	68.2	13.8	10.8	8.7	6.7	5.7	4.9	5.3	5.5	5.5
70°	163.3	46.0	12.8	9.7	7.8	6.2	5.3	4.7	5.1	5.3	5.3
72.5°	45.5	23.7	10.2	7.6	6.4	5.1	4.2	4.2	4.9	5.1	5.1
75°	29.7	17.5	7.8	5.7	4.9	4.0	3.6	4.0	4.7	4.9	4.9
77.5°	24.6	14.4	6.4	4.7	4.0	3.9	3.4	3.6	4.2	4.4	4.4
80°	22.5	10.2	5.1	4.2	3.6	3.4	3.1	3.0	3.9	4.0	4.0
82.5°	21.4	8.0	4.4	3.9	3.4	3.0	2.8	3.0	3.4	3.6	3.9
85°	13.3	5.3	4.0	3.6	3.0	2.8	2.8	2.8	3.1	3.4	3.4
87.5°	4.9	4.2	3.6	3.0	2.5	2.5	2.5	2.5	2.8	3.1	3.1
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)