

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: P193589

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193589
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: GLEON-AF-01-LED-E1-SL2-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 4212 lumens
Efficiency: N/A
Efficacy: 71.4 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): 59
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

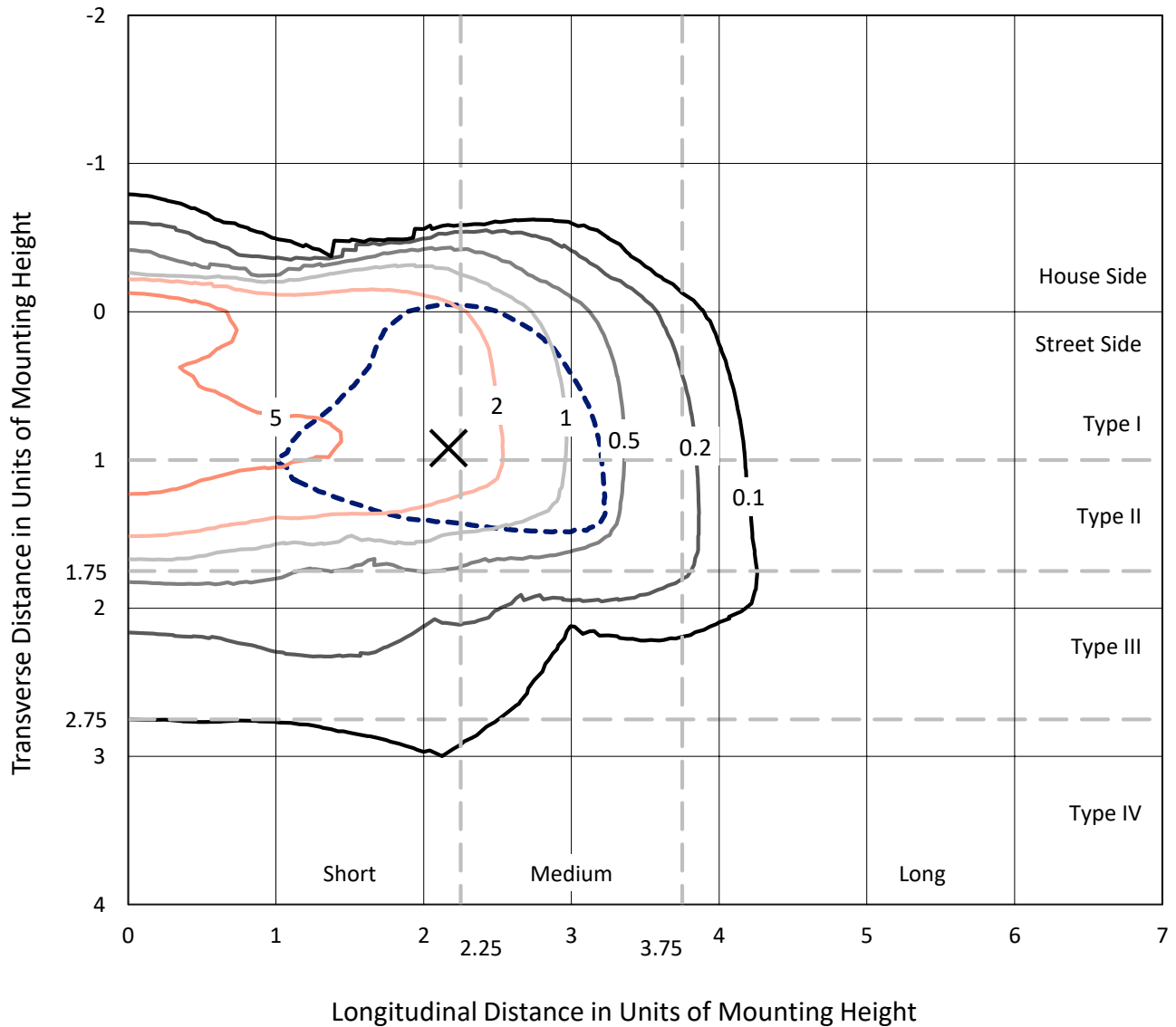


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

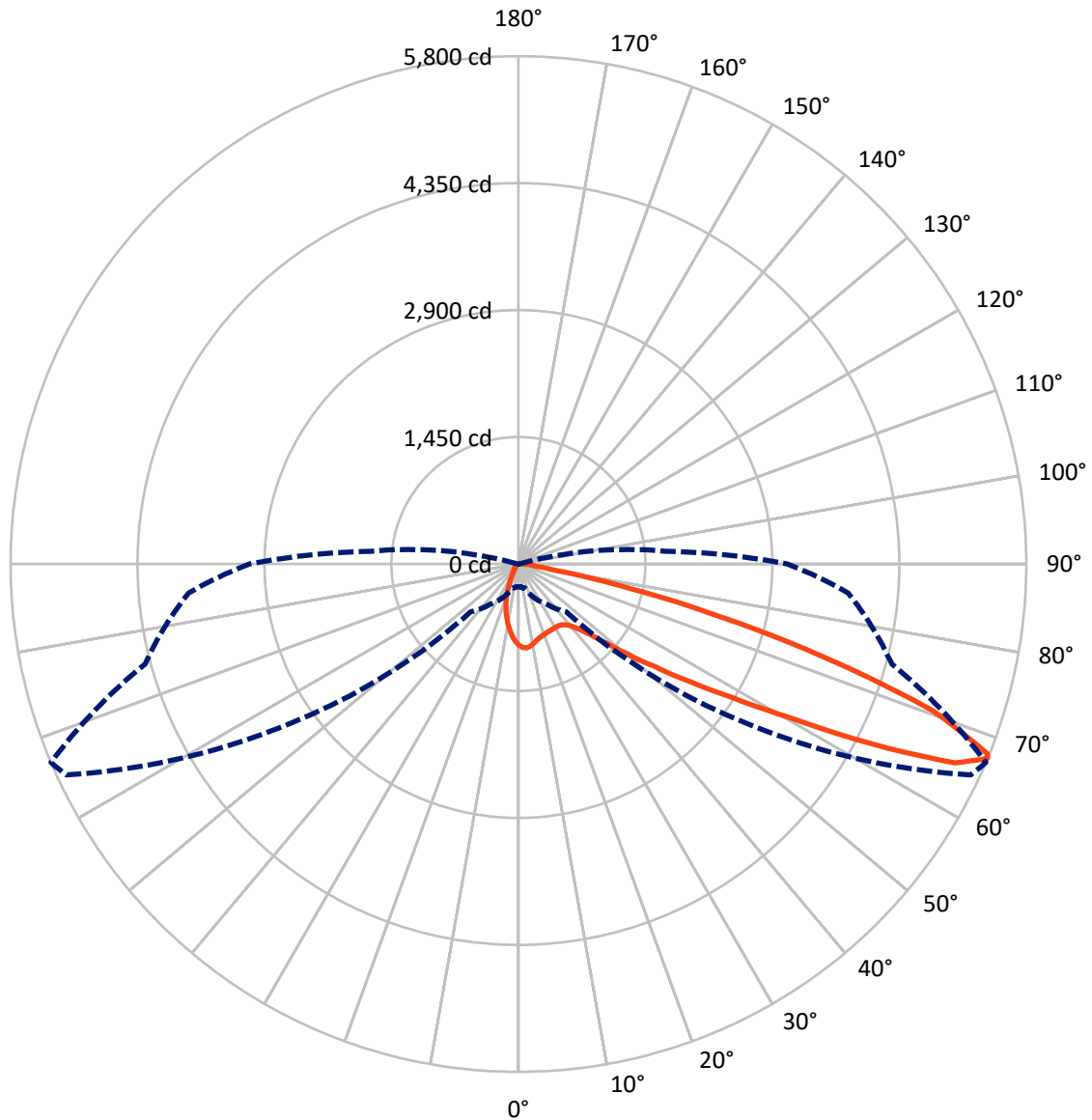


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - Semi-Cutoff

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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	437.3	0.0	437.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3774.7	0.0	3774.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	4212.0	0.0	4212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	1.8
10°-20°	160.9	3.8
20°-30°	233.9	5.6
30°-40°	364.9	8.7
40°-50°	646.4	15.3
50°-60°	1022.8	24.3
60°-70°	1171.5	27.8
70°-80°	485.9	11.5
80°-90°	50.2	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°	4212.0	100.0
0°-180°	4212.0	100.0

Coefficient of Utilization



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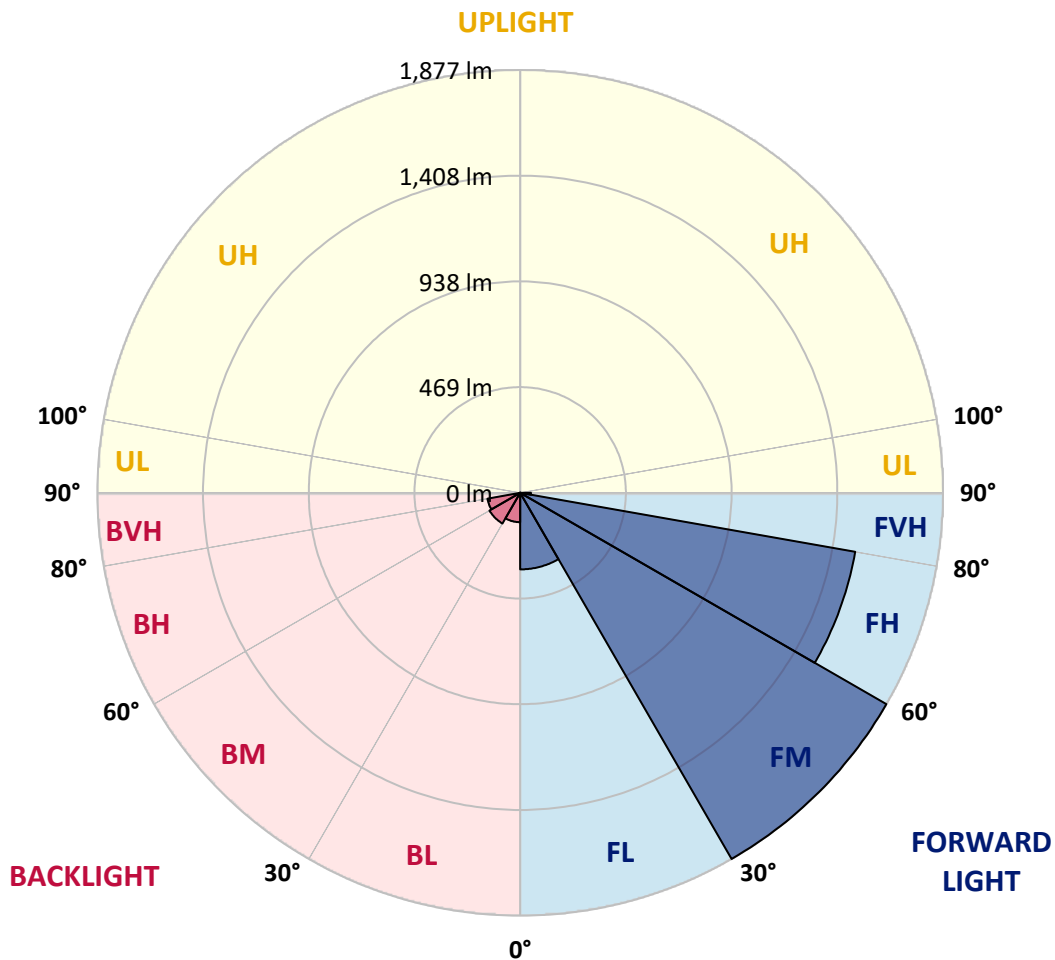
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.8	8.1			
FM (30°-60°)	1876.9	44.6			
FH (60°-80°)	1510.0	35.9			G1/1800
FVH (80°-90°)	47.9	1.1			G1/100
BL (0°-30°)	130.5	3.1	B1/500		
BM (30°-60°)	157.2	3.7	B0/220		
BH (60°-80°)	147.4	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°	928.9	928.9	928.9	928.9	928.9	928.9	928.9	928.9	928.9	928.9	928.9
2.5°	960.3	962.3	962.1	963.5	967.0	967.2	963.8	957.2	955.7	947.1	932.1
5°	885.7	891.3	894.8	908.8	924.5	943.4	957.6	962.8	962.1	955.9	933.3
7.5°	800.4	806.1	810.0	826.5	847.3	879.8	916.9	947.3	950.0	956.7	932.3
10°	743.7	744.6	750.0	765.8	787.6	820.8	865.0	918.3	926.4	950.8	929.9
12.5°	697.0	697.7	704.8	721.8	745.1	778.5	825.0	886.6	899.2	943.4	929.4
15°	663.8	666.5	672.9	690.6	715.4	748.6	796.2	863.3	878.3	940.7	933.8
17.5°	652.8	655.7	657.7	670.5	693.1	725.5	774.4	848.1	865.0	942.2	942.4
20°	664.3	666.5	662.1	665.3	679.3	708.3	755.9	835.1	855.2	943.9	953.5
22.5°	707.3	708.3	696.2	682.2	679.8	695.8	741.5	824.7	846.4	948.6	966.5
25°	781.0	779.3	759.6	729.4	700.9	693.5	732.9	818.3	841.9	953.5	980.0
27.5°	869.9	872.4	845.4	801.4	747.1	708.3	731.6	815.6	840.0	956.9	991.8
30°	978.0	981.5	950.5	895.2	817.4	744.6	742.9	815.2	838.7	954.7	992.8
32.5°	1088.3	1092.5	1068.2	1011.2	911.2	805.6	768.5	820.6	841.2	947.1	987.1
35°	1203.8	1209.7	1193.5	1144.6	1038.5	893.5	813.4	837.0	852.7	946.3	981.5
37.5°	1363.3	1368.7	1338.2	1286.4	1192.5	1011.4	885.7	868.0	880.0	958.1	983.0
40°	1601.3	1600.6	1522.0	1442.6	1361.8	1161.3	987.1	924.0	930.1	993.8	1001.1
42.5°	1860.8	1859.5	1743.3	1622.7	1549.7	1345.8	1120.5	1020.8	1016.6	1059.4	1048.3
45°	2060.7	2060.5	1965.7	1829.8	1776.0	1557.6	1293.0	1155.4	1149.0	1166.0	1135.3
47.5°	2146.0	2147.5	2099.8	2004.2	2026.8	1844.0	1510.4	1350.5	1340.9	1334.0	1287.3
50°	2079.6	2082.6	2086.5	2067.9	2210.8	2229.0	1802.0	1625.4	1620.7	1590.0	1517.1
52.5°	1863.0	1877.9	1924.1	1983.3	2274.7	2598.5	2259.2	1966.9	1941.8	1909.1	1828.8
55°	1497.9	1514.3	1602.1	1745.8	2179.6	2841.2	2900.0	2407.1	2365.4	2267.8	2151.9
57.5°	991.3	1016.9	1144.1	1326.9	1903.5	2880.3	3539.2	3018.1	2872.7	2605.6	2474.9
60°	546.1	570.7	708.8	874.4	1374.8	2687.2	3969.1	3813.6	3556.7	2983.2	2867.3
62.5°	336.3	349.6	451.6	605.6	824.5	2120.9	4058.1	4813.3	4515.8	3469.4	3341.2
65°	267.8	273.4	323.3	495.0	591.1	1261.5	3770.9	5575.4	5476.1	4058.1	3765.5
67°	259.9	262.1	285.7	425.0	557.2	773.4	3159.1	5699.4	5800.2	4414.3	3778.7
67.5°	261.6	264.1	286.5	405.6	556.2	710.7	2948.4	5650.6	5777.8	4442.6	3720.0
70°	252.3	259.9	328.0	405.4	528.9	590.6	1765.7	4895.8	5028.3	4127.9	3156.4
72.5°	89.4	89.9	141.8	328.0	575.1	597.0	886.6	3589.1	3687.1	3157.7	2275.7
75°	53.1	45.2	47.2	93.4	549.6	579.8	511.5	2293.4	2330.0	1809.4	1152.5
77.5°	36.6	31.9	32.9	41.3	209.3	571.7	406.3	1196.0	1156.9	634.6	245.4
80°	20.9	18.4	19.7	36.1	76.2	533.4	383.3	485.0	413.5	107.6	67.8
82.5°	11.1	9.3	11.3	29.7	53.1	332.4	384.0	234.4	185.7	36.4	46.2
85°	3.9	3.2	5.4	20.4	35.4	102.0	356.0	197.0	154.8	17.7	35.1
87.5°	0.7	0.7	2.2	8.4	14.2	31.2	210.5	116.9	78.4	10.6	24.1
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°	928.9	928.9	928.9	928.9	928.9	928.9	928.9	928.9	928.9	928.9	928.9
2.5°	926.0	915.4	901.1	883.7	863.1	844.9	831.4	817.4	814.4	809.5	808.8
5°	919.8	901.6	866.3	825.7	782.5	743.4	711.7	683.5	670.9	660.1	658.9
7.5°	910.7	883.5	823.3	757.9	690.3	628.9	576.8	540.0	506.1	489.9	487.4
10°	900.2	861.1	774.9	684.2	590.9	504.1	426.7	361.9	322.6	299.2	296.3
12.5°	890.3	839.2	725.5	607.8	483.7	367.8	268.3	206.4	165.1	148.4	146.4
15°	885.7	821.5	679.3	529.7	371.7	234.1	146.7	113.5	100.0	96.1	95.8
17.5°	885.2	806.6	634.1	448.9	260.4	136.1	95.6	87.2	84.5	83.5	83.5
20°	884.9	792.3	588.9	365.1	165.3	90.7	79.6	77.6	75.7	74.4	74.4
22.5°	887.6	779.5	541.7	279.6	104.2	73.5	70.0	68.1	65.6	63.9	63.6
25°	890.3	769.7	493.6	199.0	75.4	63.9	60.4	57.7	54.3	52.1	51.8
27.5°	890.8	757.4	442.0	133.2	63.1	55.8	51.3	47.2	43.2	41.0	40.8
30°	883.5	736.8	384.7	89.9	55.8	48.4	42.5	38.1	34.4	32.7	32.7
32.5°	869.0	711.2	321.8	67.8	49.6	41.5	35.1	31.0	28.5	27.8	27.5
35°	855.9	683.7	257.2	57.5	44.5	35.1	28.7	26.0	24.6	24.3	24.1
37.5°	848.3	661.6	196.5	52.1	39.6	29.5	24.3	22.4	21.6	21.1	21.4
40°	854.2	643.2	145.2	47.7	34.6	24.6	20.6	19.7	18.9	18.7	18.7
42.5°	880.0	640.0	107.9	43.7	30.0	20.4	17.9	17.2	16.7	16.5	16.7
45°	947.8	659.6	83.8	40.0	25.3	17.2	15.2	15.0	14.7	14.7	14.7
47.5°	1049.8	700.2	69.8	35.9	21.1	14.7	13.3	13.0	12.8	13.0	13.0
50°	1222.5	774.4	62.4	31.7	17.4	12.5	11.3	11.3	11.3	11.3	11.5
52.5°	1485.1	920.3	57.5	27.5	14.2	10.6	9.6	9.6	9.8	9.8	10.1
55°	1777.7	1113.9	53.1	23.3	12.0	8.8	7.9	8.1	8.4	8.6	8.6
57.5°	2095.1	1328.4	49.4	19.2	10.3	7.1	6.6	6.9	7.1	7.6	7.6
60°	2478.1	1560.5	44.0	15.0	8.6	5.7	5.2	5.7	6.4	6.9	7.1
62.5°	2898.7	1785.1	37.1	11.8	7.1	4.4	4.2	5.2	6.1	6.6	6.9
65°	3186.2	1855.6	28.5	9.6	5.4	3.2	3.4	4.7	5.9	6.6	6.6
67°	3069.7	1682.4	23.3	8.1	4.4	2.5	3.2	4.7	5.9	6.4	6.6
67.5°	2988.9	1614.6	22.4	7.9	4.2	2.5	3.2	4.7	5.9	6.6	6.6
70°	2431.9	1212.9	18.7	5.9	3.4	2.2	2.7	4.4	5.7	6.4	6.4
72.5°	1689.8	747.8	16.7	4.2	2.9	2.0	2.5	4.2	5.4	6.1	6.4
75°	803.4	270.7	14.2	3.2	2.7	1.7	2.2	4.2	5.4	6.1	6.1
77.5°	163.9	62.9	11.5	2.7	2.2	1.7	2.0	3.9	5.2	5.9	5.9
80°	53.8	24.3	8.6	2.5	2.2	1.7	2.0	3.7	5.2	5.7	5.9
82.5°	38.8	12.3	5.7	2.5	2.2	1.7	1.7	3.7	4.9	5.7	5.7
85°	29.7	8.6	3.7	2.5	2.2	1.7	1.7	3.4	4.7	5.4	5.4
87.5°	19.7	3.4	2.9	2.5	2.2	1.7	1.7	3.4	4.4	5.2	5.4
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)