

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: P382868

Luminaire Tested: **GLEON-SA2B-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8791 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

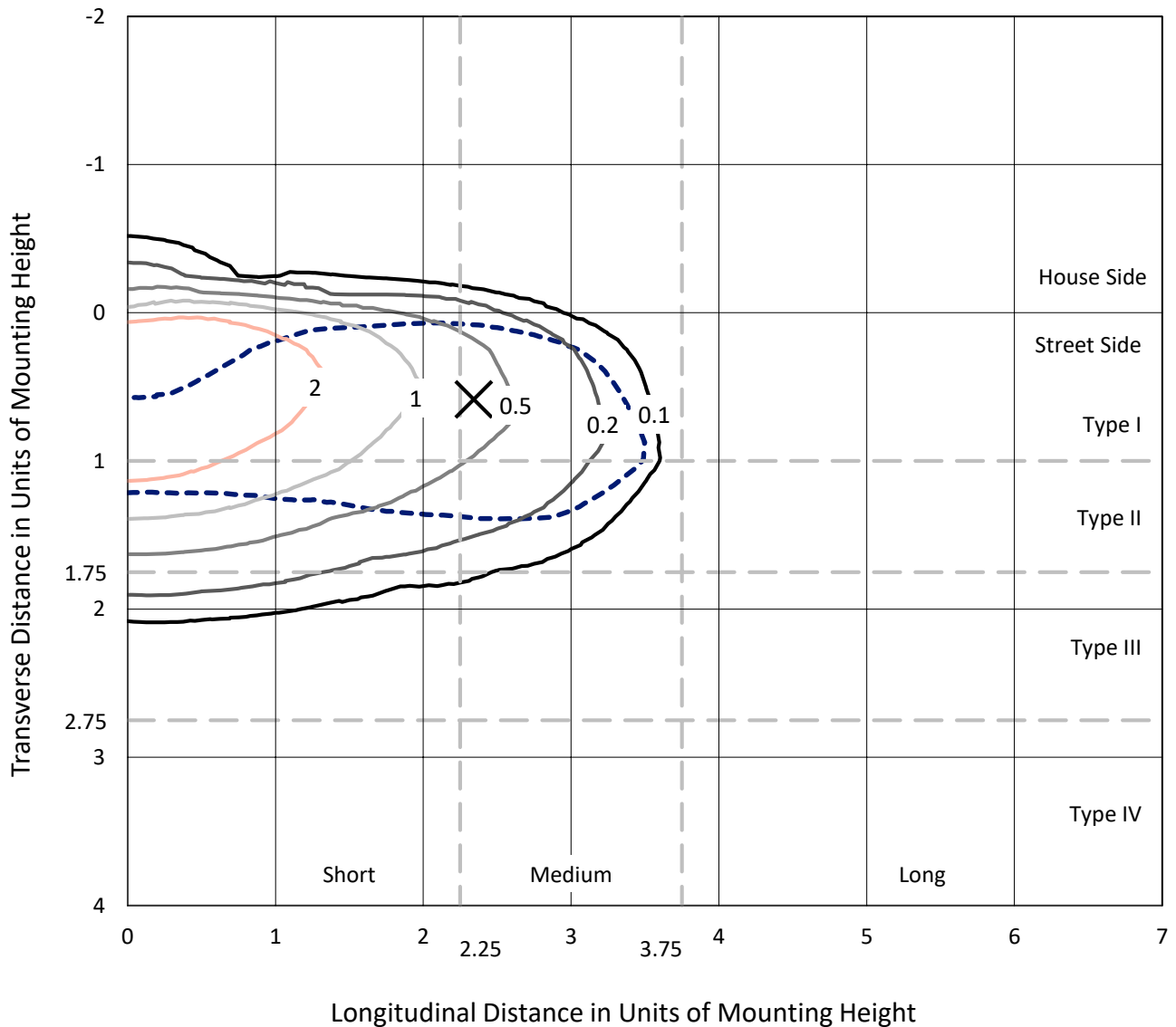
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

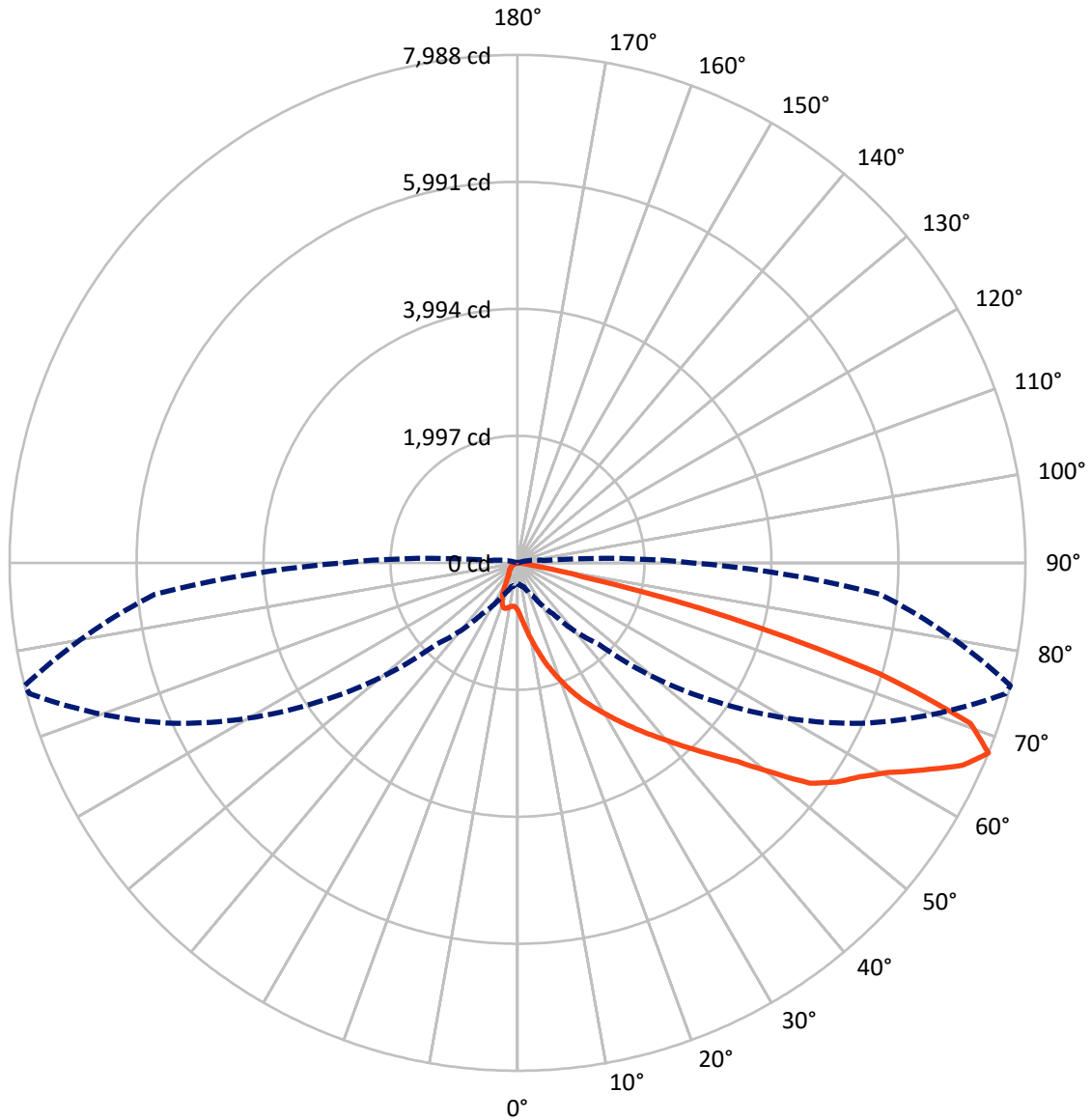
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	436.5	0.0	436.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8354.5	0.0	8354.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	8791.0	0.0	8791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	1.1
10°-20°	367.6	4.2
20°-30°	747.9	8.5
30°-40°	1298.2	14.8
40°-50°	1834.2	20.9
50°-60°	2080.0	23.7
60°-70°	1725.2	19.6
70°-80°	624.9	7.1
80°-90°	20.3	0.2
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°	8791.0	100.0
0°-180°	8791.0	100.0

Coefficient of Utilization

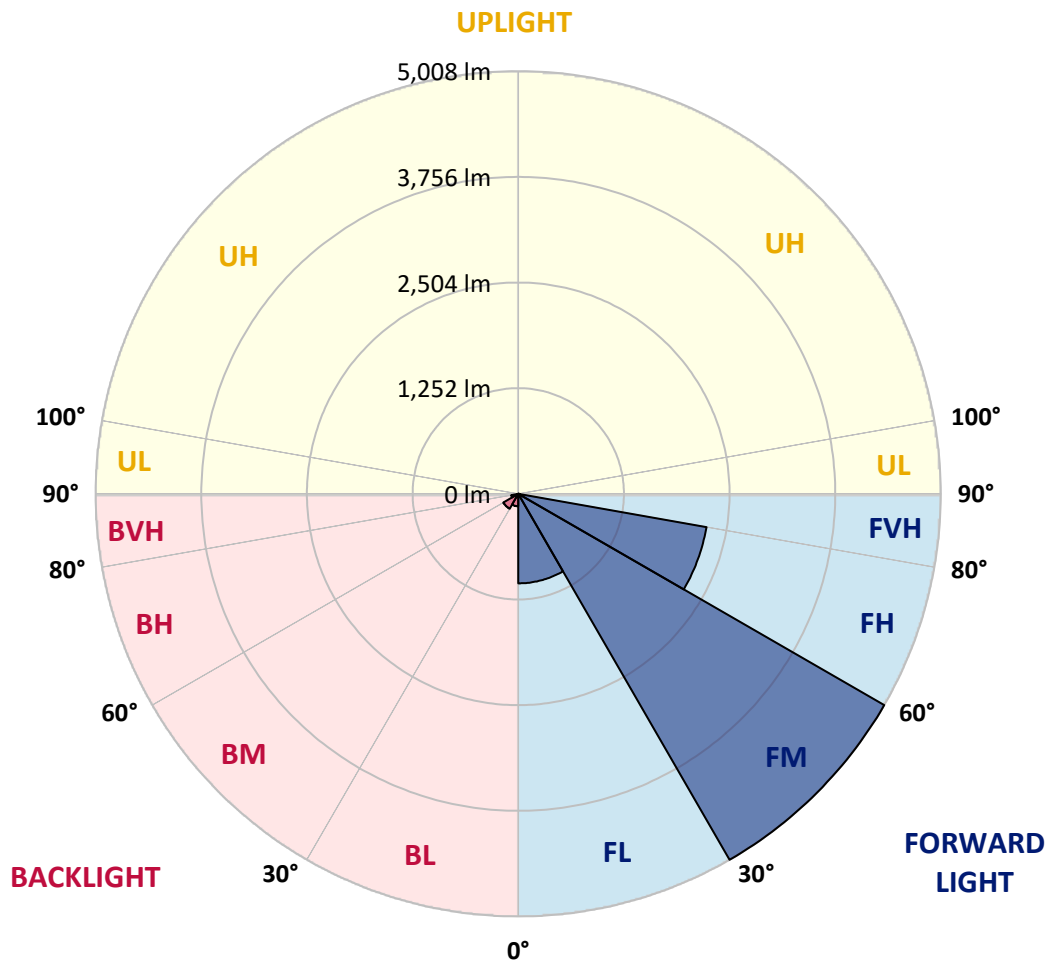


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1061.0	12.1			
FM (30°-60°)	5008.1	57.0			
FH (60°-80°)	2265.7	25.8			G2/5000
FVH (80°-90°)	19.6	0.2			G1/100
BL (0°-30°)	147.2	1.7	B1/500		
BM (30°-60°)	204.3	2.3	B0/220		
BH (60°-80°)	84.4	1.0	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7
2.5°	1113.2	1088.1	1093.9	1077.8	1048.5	988.4	937.1	888.6	832.1	830.1	783.5
5°	1501.1	1479.9	1477.2	1444.5	1391.4	1289.3	1189.9	1076.6	950.3	941.0	842.0
7.5°	1853.1	1836.2	1830.0	1791.2	1692.2	1592.8	1463.4	1296.9	1099.3	1082.4	921.0
10°	2123.6	2115.5	2117.0	2089.3	2004.5	1912.1	1742.2	1530.0	1268.4	1242.2	1015.8
12.5°	2328.5	2330.5	2344.2	2327.4	2280.0	2211.4	2029.9	1778.4	1455.6	1419.9	1124.0
15°	2479.1	2488.7	2514.2	2535.3	2531.9	2472.5	2306.1	2030.8	1654.4	1614.7	1244.5
17.5°	2576.6	2587.4	2624.4	2671.3	2714.4	2700.6	2572.7	2274.2	1855.5	1809.6	1373.6
20°	2662.1	2674.8	2714.4	2776.5	2857.0	2874.3	2790.4	2510.3	2056.1	2000.3	1506.9
22.5°	2847.4	2847.0	2871.2	2907.5	2984.1	3028.7	2975.6	2729.4	2254.5	2196.4	1642.9
25°	3182.4	3169.8	3161.3	3132.8	3149.7	3177.4	3147.8	2934.4	2454.1	2395.1	1780.7
27.5°	3580.8	3588.4	3519.9	3443.3	3383.9	3355.4	3306.9	3124.3	2645.9	2581.1	1915.5
30°	4001.0	4003.3	3922.4	3824.6	3694.0	3585.7	3501.8	3305.7	2843.1	2772.7	2046.5
32.5°	4380.0	4365.0	4284.8	4151.6	3986.7	3865.0	3690.5	3508.3	3051.8	2983.7	2192.1
35°	4680.5	4662.8	4565.3	4443.9	4272.9	4150.4	3940.5	3710.5	3271.4	3204.8	2338.1
37.5°	4900.0	4879.3	4779.1	4654.3	4506.7	4435.5	4230.5	3930.5	3511.0	3439.4	2491.8
40°	4976.3	4958.2	4895.4	4804.1	4685.5	4669.3	4538.3	4183.6	3771.8	3695.5	2665.9
42.5°	4930.9	4913.2	4890.8	4860.0	4810.7	4826.1	4828.8	4472.1	4061.5	3986.4	2858.2
45°	4750.6	4734.8	4757.9	4803.0	4864.2	4940.5	5093.8	4782.2	4385.1	4304.9	3080.3
47.5°	4485.2	4473.7	4537.6	4650.0	4829.1	5039.5	5336.1	5108.0	4748.3	4673.9	3357.8
50°	4107.7	4105.8	4233.6	4438.9	4714.4	5087.3	5586.5	5478.6	5252.9	5174.7	3743.3
52.5°	3519.9	3523.8	3775.3	4103.8	4512.9	5054.9	5747.5	5954.7	5839.9	5758.6	4077.3
55°	2960.2	2983.3	3161.7	3635.5	4204.0	4934.7	5802.9	6176.9	6163.9	6086.8	4262.9
57.5°	2412.1	2454.1	2625.8	3068.4	3752.9	4657.7	5772.5	6273.2	6404.9	6346.1	4507.9
60°	1818.1	1837.4	2035.3	2449.0	3174.0	4152.4	5551.7	6325.7	6734.7	6693.9	4863.4
62.5°	1156.7	1204.9	1380.6	1779.6	2471.4	3450.5	5179.7	6324.8	7147.2	7169.6	5322.2
65°	609.4	665.6	758.8	1102.8	1698.3	2666.6	4620.0	6265.5	7653.4	7684.6	5680.9
67.5°	328.6	344.8	394.0	572.4	984.9	1806.6	3797.6	5972.8	7946.6	7987.7	5730.9
70°	240.3	249.2	267.7	316.6	495.8	1049.3	2771.1	5309.1	7568.6	7553.3	5091.8
72.5°	184.5	198.4	212.2	231.9	285.1	560.0	1725.3	4157.4	6039.0	5937.3	3806.1
75°	145.6	147.9	167.6	185.3	213.8	319.0	766.1	2421.3	3685.9	3445.1	1973.8
77.5°	116.4	117.8	129.4	144.9	171.8	209.5	237.3	952.6	1176.7	1050.0	428.3
80°	68.9	72.8	96.3	111.7	142.5	132.1	86.6	206.8	183.7	166.4	72.0
82.5°	38.5	41.6	54.3	88.2	99.4	63.2	43.1	55.9	43.1	42.0	20.4
85°	0.0	2.0	35.0	54.7	40.4	13.9	18.1	18.4	12.7	11.9	8.1
87.5°	0.0	0.0	10.8	10.4	1.6	2.3	4.2	6.1	5.0	5.0	4.2
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°	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7
2.5°	760.3	739.6	700.2	661.8	629.4	602.8	579.0	569.3	561.6	560.4	554.3
5°	794.2	752.3	677.1	615.6	574.3	545.0	520.0	504.6	492.7	488.0	483.8
7.5°	845.5	781.9	674.1	603.2	553.9	504.6	458.4	408.3	377.1	365.2	358.3
10°	907.9	821.3	685.6	599.7	513.5	409.4	332.8	269.2	243.4	234.9	232.7
12.5°	980.7	870.2	705.6	578.2	427.2	290.8	229.5	208.0	202.2	199.5	199.5
15°	1064.3	923.7	719.9	515.8	315.9	219.9	198.8	188.7	182.6	179.1	179.5
17.5°	1149.8	976.1	713.0	425.3	233.1	195.7	179.9	169.1	160.6	157.2	156.4
20°	1236.1	1024.6	674.4	316.6	197.2	177.6	159.9	147.9	139.5	136.0	135.2
22.5°	1325.4	1065.8	606.7	232.2	177.2	157.5	140.2	128.3	120.2	117.1	115.5
25°	1412.5	1099.3	511.9	188.0	158.3	138.7	122.1	110.9	103.6	100.5	100.1
27.5°	1493.7	1120.6	402.1	166.0	141.8	121.8	106.7	96.7	90.5	88.2	87.8
30°	1567.0	1122.4	297.3	149.9	127.2	107.1	93.2	84.4	79.0	76.7	75.9
32.5°	1640.9	1106.3	216.5	135.2	113.6	94.4	80.9	74.0	70.1	68.2	68.2
35°	1710.6	1069.0	168.7	122.5	100.5	82.1	71.3	66.2	63.9	62.0	62.0
37.5°	1778.8	1015.4	143.3	111.3	88.2	71.6	62.8	59.7	57.8	55.9	55.9
40°	1848.2	947.9	130.2	100.9	78.2	63.5	55.9	53.2	51.2	49.7	49.3
42.5°	1933.2	870.2	121.8	91.3	69.3	56.3	49.3	46.2	44.7	43.1	42.4
45°	2031.9	803.1	114.8	81.7	62.0	50.1	42.8	39.7	37.4	35.4	35.0
47.5°	2174.0	754.6	105.5	71.3	55.1	43.5	37.0	33.5	30.1	28.1	27.8
50°	2355.4	714.5	93.6	62.0	48.2	37.0	30.8	26.5	23.5	21.6	21.6
52.5°	2445.6	662.1	82.8	53.9	40.4	31.2	25.1	20.0	18.4	16.6	16.6
55°	2481.8	622.1	72.0	45.8	33.5	25.8	19.7	15.4	14.3	13.1	12.7
57.5°	2583.5	610.5	62.8	38.9	27.8	20.4	15.0	11.6	10.8	9.2	9.2
60°	2747.2	616.3	54.3	33.2	22.4	15.8	11.2	8.8	8.1	6.5	6.5
62.5°	2924.0	609.0	45.8	28.5	17.3	11.6	7.7	6.5	6.5	3.8	3.4
65°	2957.8	542.3	39.3	23.5	13.5	8.5	5.0	4.2	5.8	0.7	0.0
67.5°	2745.3	420.6	33.9	18.1	10.1	6.5	3.8	2.0	5.0	0.0	0.0
70°	2195.2	267.4	27.4	13.1	7.7	5.4	3.1	0.7	3.8	0.0	0.0
72.5°	1552.3	155.2	21.6	9.2	6.5	4.2	2.3	0.0	2.3	0.0	0.0
75°	785.0	82.8	13.5	6.9	5.0	3.1	1.6	0.0	0.4	0.0	0.0
77.5°	169.9	38.5	8.5	5.0	3.4	2.0	0.7	0.0	0.0	0.0	0.0
80°	37.0	17.0	5.4	3.1	2.0	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	13.5	8.8	2.7	1.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.4	4.7	1.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	1.6	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)