

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: P382644

Luminaire Tested: **GLEON-SA0B-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382644
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-SA0B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 42531.7 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

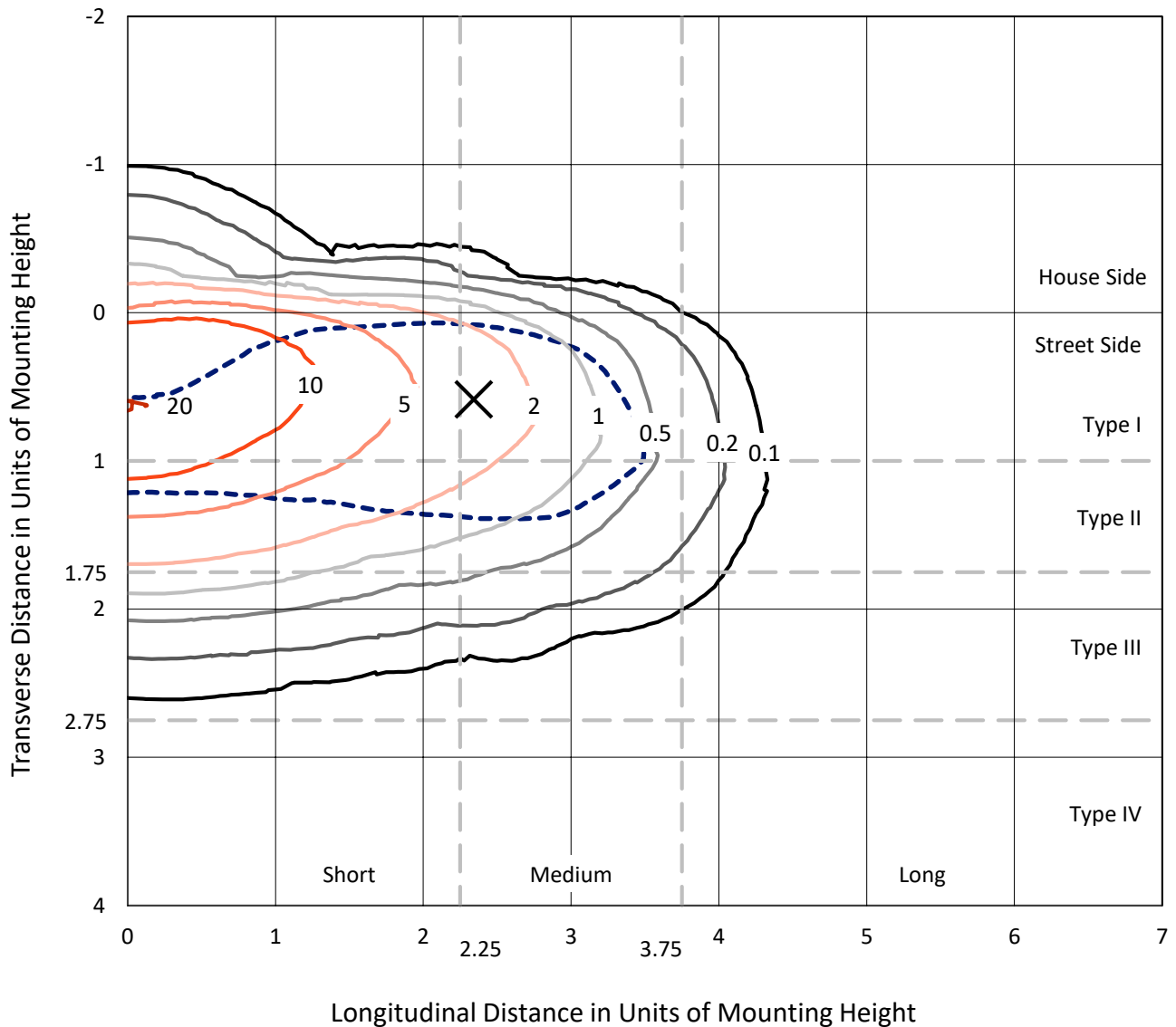
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

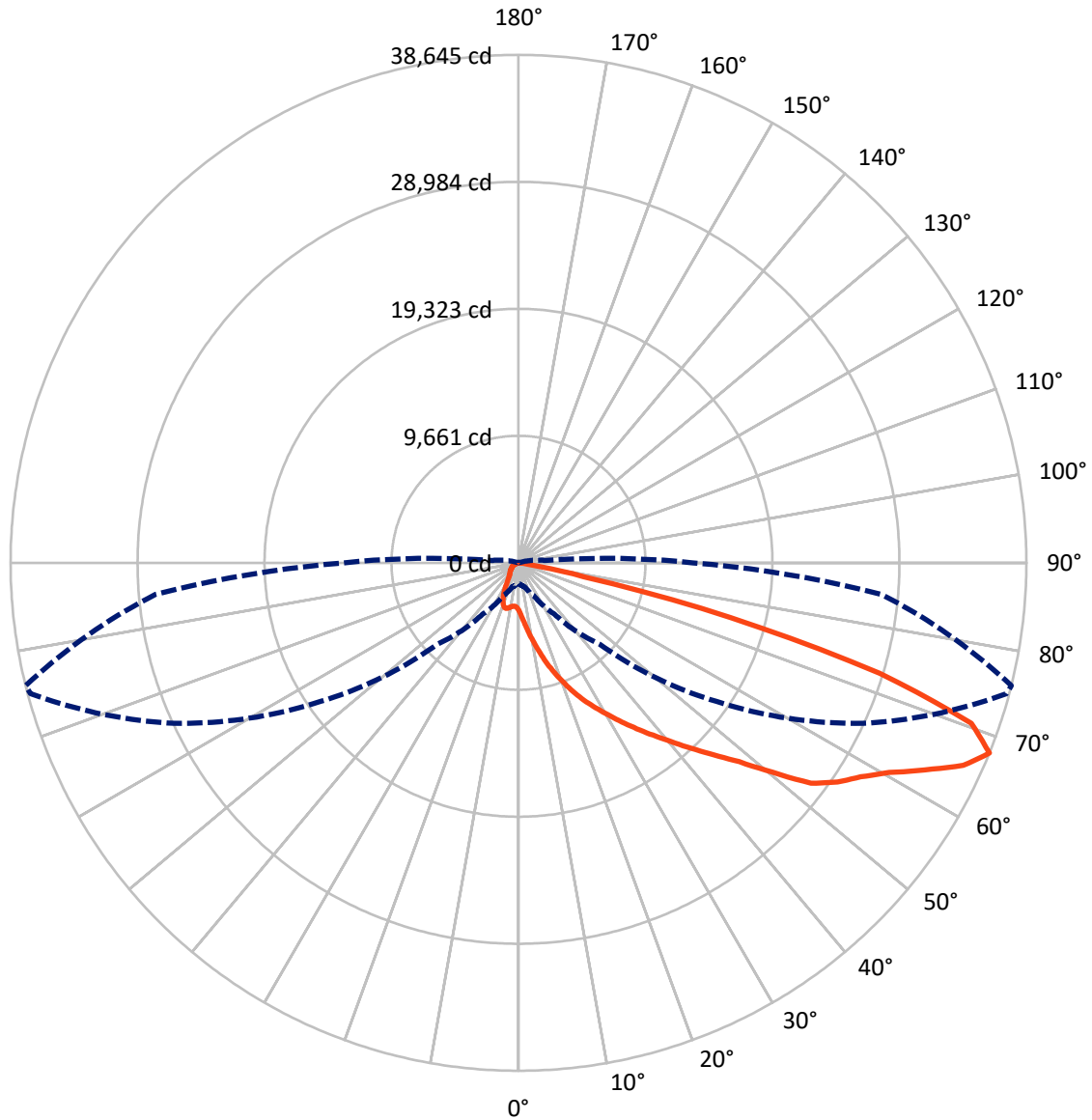
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 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	2112.0	0.0	2112.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	40419.7	0.0	40419.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	42531.7	0.0	42531.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.6	1.1
10°-20°	1778.5	4.2
20°-30°	3618.6	8.5
30°-40°	6280.7	14.8
40°-50°	8873.9	20.9
50°-60°	10063.4	23.7
60°-70°	8346.6	19.6
70°-80°	3023.4	7.1
80°-90°	98.0	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°	42531.7	100.0
0°-180°	42531.7	100.0

Coefficient of Utilization

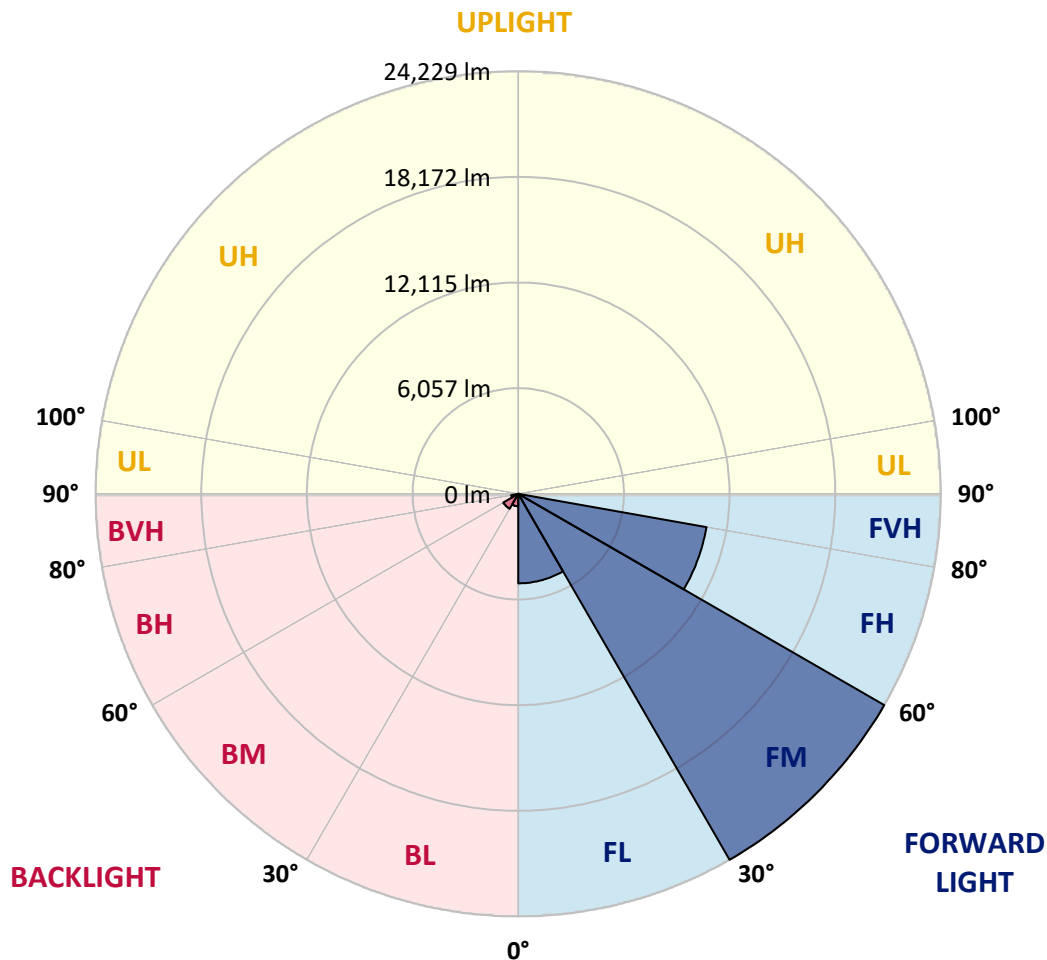


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5133.4	12.1			
FM (30°-60°)	24229.4	57.0			
FH (60°-80°)	10961.8	25.8			G4/12000
FVH (80°-90°)	95.0	0.2			G1/100
BL (0°-30°)	712.3	1.7	B2/1000		
BM (30°-60°)	988.5	2.3	B1/1000		
BH (60°-80°)	408.2	1.0	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9
2.5°	5385.7	5264.6	5292.6	5214.3	5072.7	4782.0	4534.1	4299.3	4025.4	4016.1	3790.6
5°	7262.4	7160.0	7146.9	6988.5	6731.3	6237.5	5756.7	5208.7	4597.5	4552.8	4073.8
7.5°	8965.8	8883.8	8853.9	8665.7	8186.8	7705.9	7079.8	6274.7	5318.7	5236.7	4455.9
10°	10273.9	10234.8	10242.3	10108.1	9698.2	9250.9	8429.0	7402.2	6136.8	6010.1	4914.3
12.5°	11265.4	11274.7	11341.9	11259.8	11030.6	10698.9	9821.1	8604.2	7042.5	6869.2	5438.0
15°	11994.0	12040.7	12163.7	12266.2	12249.4	11962.4	11157.3	9824.8	8004.1	7812.1	6021.2
17.5°	12465.6	12517.8	12696.6	12924.0	13132.8	13065.7	12447.0	11002.7	8977.0	8755.2	6645.6
20°	12879.3	12940.8	13132.8	13432.8	13822.3	13906.1	13499.9	12145.1	9947.9	9677.7	7290.4
22.5°	13775.7	13773.9	13891.2	14066.4	14437.2	14653.4	14396.2	13205.4	10907.6	10626.3	7948.2
25°	15397.0	15335.5	15294.5	15156.7	15238.6	15372.8	15229.3	14196.9	11872.9	11587.8	8615.4
27.5°	17324.0	17361.3	17029.5	16658.7	16371.7	16233.8	15999.0	15115.6	12801.0	12488.0	9267.7
30°	19357.2	19368.4	18976.9	18503.6	17871.8	17348.2	16942.0	15993.4	13755.1	13414.2	9901.2
32.5°	21190.9	21118.3	20730.7	20085.8	19288.2	18699.3	17855.1	16973.6	14765.2	14435.4	10605.7
35°	22644.5	22558.8	22087.3	21500.3	20672.8	20080.3	19064.6	17952.0	15827.5	15505.1	11312.0
37.5°	23706.8	23606.2	23121.6	22517.8	21804.1	21459.3	20467.9	19016.1	16986.7	16640.0	12055.6
40°	24075.8	23988.2	23684.4	23242.8	22668.7	22590.5	21956.9	20240.5	18248.3	17879.3	12897.9
42.5°	23855.8	23770.1	23662.1	23513.0	23274.4	23349.0	23362.0	21636.3	19649.7	19286.3	13827.9
45°	22983.7	22907.3	23019.1	23237.2	23533.5	23902.5	24644.2	23136.5	21215.2	20827.5	14903.2
47.5°	21699.7	21643.8	21953.1	22497.3	23363.9	24381.4	25816.4	24713.1	22972.5	22612.9	16245.0
50°	19873.4	19864.0	20482.8	21476.1	22808.5	24612.5	27027.7	26505.9	25413.8	25035.5	18110.4
52.5°	17029.5	17048.2	18265.0	19854.7	21833.9	24455.9	27806.7	28809.3	28253.9	27860.7	19726.2
55°	14321.7	14433.5	15296.4	17588.6	20339.2	23874.5	28075.1	29884.6	29821.3	29448.5	20624.4
57.5°	11669.9	11872.9	12704.1	14845.4	18157.0	22534.6	27927.8	30350.5	30987.8	30702.7	21809.7
60°	8796.1	8889.4	9847.2	11848.7	15356.0	20089.6	26860.0	30603.9	32583.1	32385.5	23529.8
62.5°	5596.4	5829.3	6679.1	8609.8	11956.8	16694.1	25059.7	30600.2	34579.0	34687.1	25749.3
65°	2948.2	3220.3	3671.3	5335.4	8216.6	12901.7	22351.9	30313.2	37027.7	37178.7	27484.3
67.5°	1589.7	1667.9	1906.4	2769.3	4765.2	8740.2	18373.2	28896.9	38445.9	38645.3	27726.6
70°	1162.9	1205.7	1295.2	1531.8	2398.5	5076.5	13406.6	25685.9	36617.7	36543.2	24634.9
72.5°	892.7	959.8	1026.8	1121.9	1379.1	2709.7	8347.0	20113.8	29217.4	28725.4	18414.2
75°	704.4	715.6	810.6	896.4	1034.3	1543.0	3706.7	11714.6	17832.7	16668.0	9549.0
77.5°	562.8	570.3	626.2	700.7	831.1	1013.8	1147.9	4608.6	5693.2	5080.2	2072.3
80°	333.6	352.2	465.9	540.5	689.5	639.2	419.3	1000.8	889.0	805.0	348.5
82.5°	186.4	201.3	262.8	426.7	480.8	305.6	208.8	270.2	208.8	203.2	98.7
85°	0.0	9.3	169.5	264.7	195.7	67.1	87.6	89.4	61.5	57.8	39.1
87.5°	0.0	0.0	52.2	50.3	7.5	11.2	20.5	29.8	24.2	24.2	20.5
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°	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9
2.5°	3678.8	3578.1	3388.0	3201.6	3045.1	2916.5	2801.0	2754.4	2717.1	2711.5	2681.7
5°	3842.7	3639.6	3276.2	2978.1	2778.6	2637.0	2515.8	2441.3	2383.6	2361.2	2340.7
7.5°	4090.6	3783.1	3261.3	2918.4	2679.9	2441.3	2217.6	1975.4	1824.4	1766.7	1733.1
10°	4392.5	3973.1	3317.2	2901.6	2484.2	1981.0	1610.2	1302.7	1177.8	1136.8	1125.6
12.5°	4744.7	4209.8	3414.1	2797.3	2066.7	1407.0	1110.7	1006.4	978.4	965.4	965.4
15°	5149.1	4468.9	3483.1	2495.3	1528.1	1064.1	961.6	913.2	883.4	866.5	868.4
17.5°	5562.8	4722.4	3449.5	2057.4	1127.5	946.7	870.3	818.1	777.1	760.3	756.6
20°	5980.3	4957.1	3263.1	1531.8	954.2	859.1	773.4	715.6	674.6	657.9	654.1
22.5°	6412.6	5156.6	2935.1	1123.7	857.2	762.2	678.4	620.6	581.5	566.6	559.1
25°	6833.8	5318.7	2476.7	909.5	765.9	670.9	590.8	536.8	501.3	486.4	484.5
27.5°	7227.0	5421.2	1945.6	803.2	685.8	588.9	516.2	467.7	437.9	426.7	424.9
30°	7581.1	5430.5	1438.7	724.9	615.0	518.0	451.0	408.1	382.0	370.8	367.1
32.5°	7938.9	5352.2	1047.3	654.1	549.8	456.6	391.3	357.8	339.2	329.9	329.9
35°	8276.2	5171.5	816.2	592.7	486.4	396.9	344.8	320.5	309.4	300.1	300.1
37.5°	8606.1	4912.4	693.3	538.6	426.7	346.6	303.8	288.9	279.6	270.2	270.2
40°	8941.6	4586.3	629.9	488.2	378.3	307.5	270.2	257.2	247.9	240.4	238.6
42.5°	9353.4	4209.8	588.9	441.6	335.5	272.1	238.6	223.7	216.2	208.8	205.0
45°	9830.4	3885.6	555.4	395.1	300.1	242.3	206.9	192.0	180.8	171.4	169.5
47.5°	10518.1	3650.7	510.6	344.8	266.5	210.6	179.0	162.1	145.3	136.0	134.1
50°	11395.9	3457.0	452.8	300.1	233.0	179.0	149.0	128.6	113.6	104.3	104.3
52.5°	11832.0	3203.5	400.7	260.9	195.7	150.9	121.1	96.9	89.4	80.1	80.1
55°	12007.1	3009.7	348.5	221.8	162.1	124.8	95.0	74.5	68.9	63.3	61.5
57.5°	12499.1	2953.8	303.8	188.3	134.1	98.7	72.7	55.9	52.2	44.7	44.7
60°	13291.1	2981.8	262.8	160.2	108.1	76.4	54.0	42.9	39.1	31.7	31.7
62.5°	14146.6	2946.3	221.8	137.9	83.8	55.9	37.3	31.7	31.7	18.6	16.8
65°	14310.5	2624.0	190.1	113.6	65.2	41.0	24.2	20.5	27.9	3.7	0.0
67.5°	13281.8	2035.1	164.0	87.6	48.4	31.7	18.6	9.3	24.2	0.0	0.0
70°	10620.6	1293.4	132.3	63.3	37.3	26.1	14.9	3.7	18.6	0.0	0.0
72.5°	7510.3	751.0	104.3	44.7	31.7	20.5	11.2	0.0	11.2	0.0	0.0
75°	3798.0	400.7	65.2	33.5	24.2	14.9	7.5	0.0	1.9	0.0	0.0
77.5°	821.8	186.4	41.0	24.2	16.8	9.3	3.7	0.0	0.0	0.0	0.0
80°	179.0	82.0	26.1	14.9	9.3	5.6	0.0	0.0	0.0	0.0	0.0
82.5°	65.2	42.9	13.0	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.4	22.4	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	7.5	1.9	1.9	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)