

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: P383168

Luminaire Tested: **GLEON-SA5A-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5A-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES 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: 17610 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

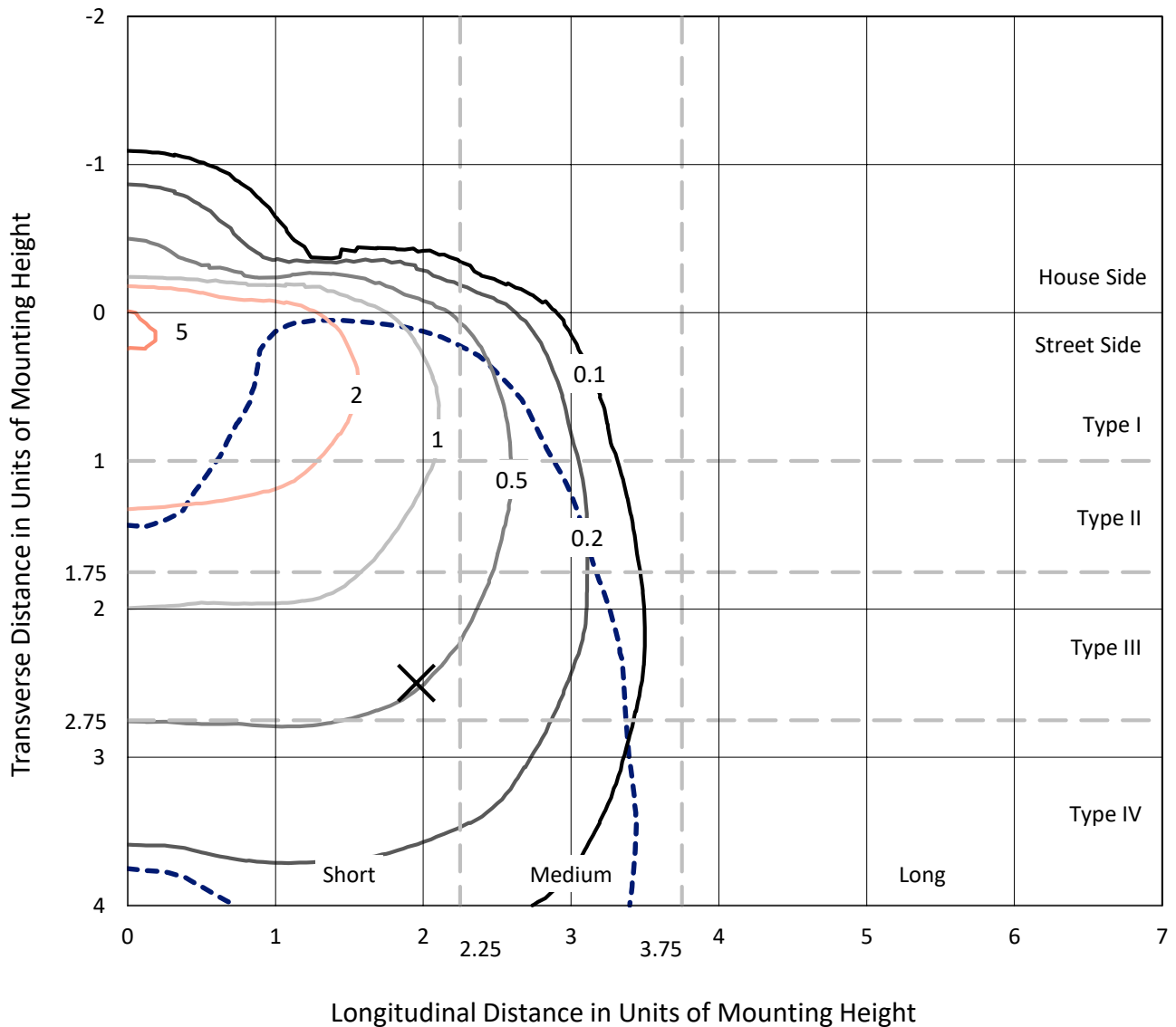
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

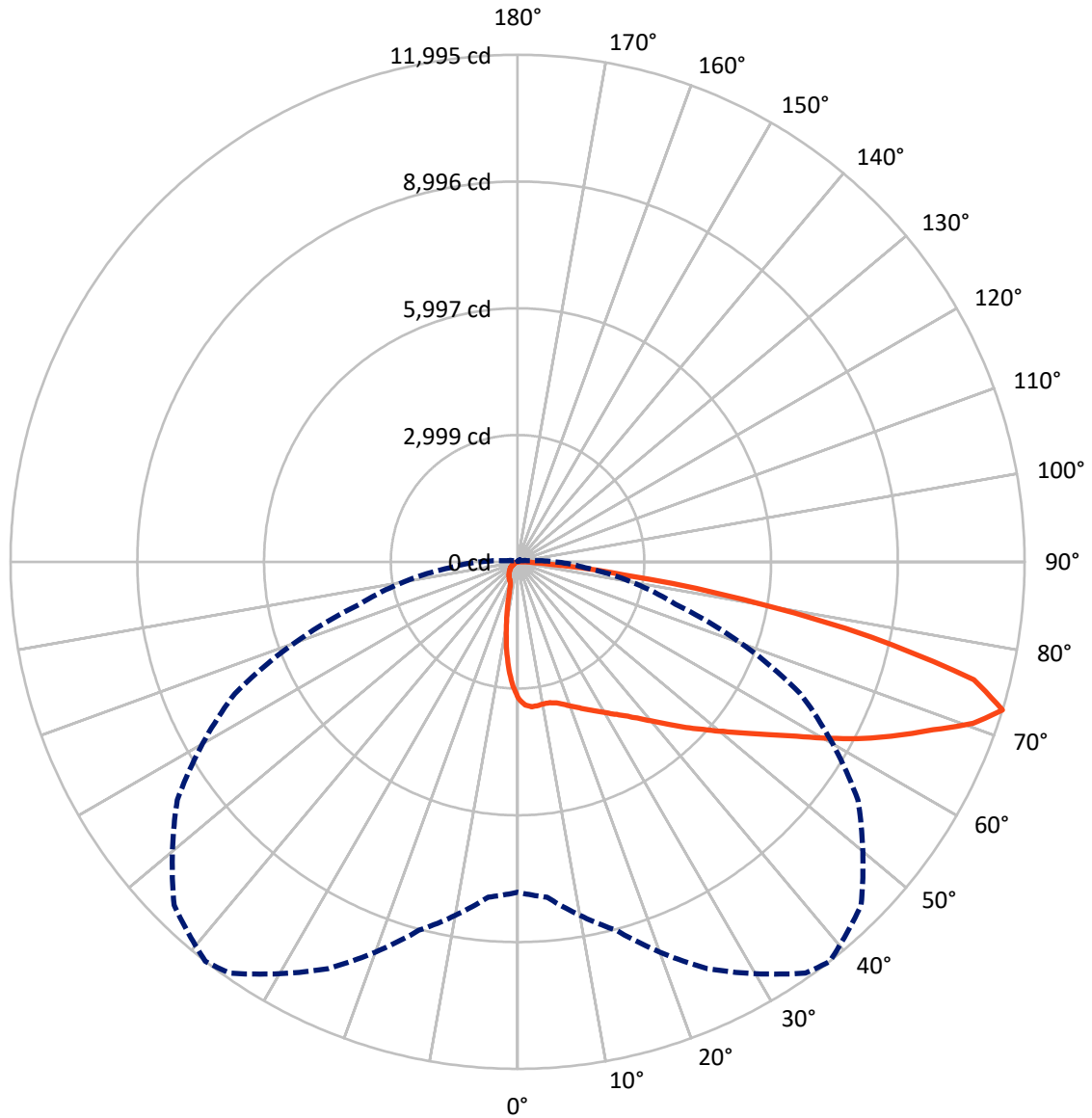
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1482.0	0.0	1482.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	16128.0	0.0	16128.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	17610.0	0.0	17610.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.0	1.6
10°-20°	674.8	3.8
20°-30°	1073.3	6.1
30°-40°	1613.6	9.2
40°-50°	2461.6	14.0
50°-60°	3479.1	19.8
60°-70°	4364.0	24.8
70°-80°	3263.0	18.5
80°-90°	404.6	2.3
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°	17610.0	100.0
0°-180°	17610.0	100.0

Coefficient of Utilization



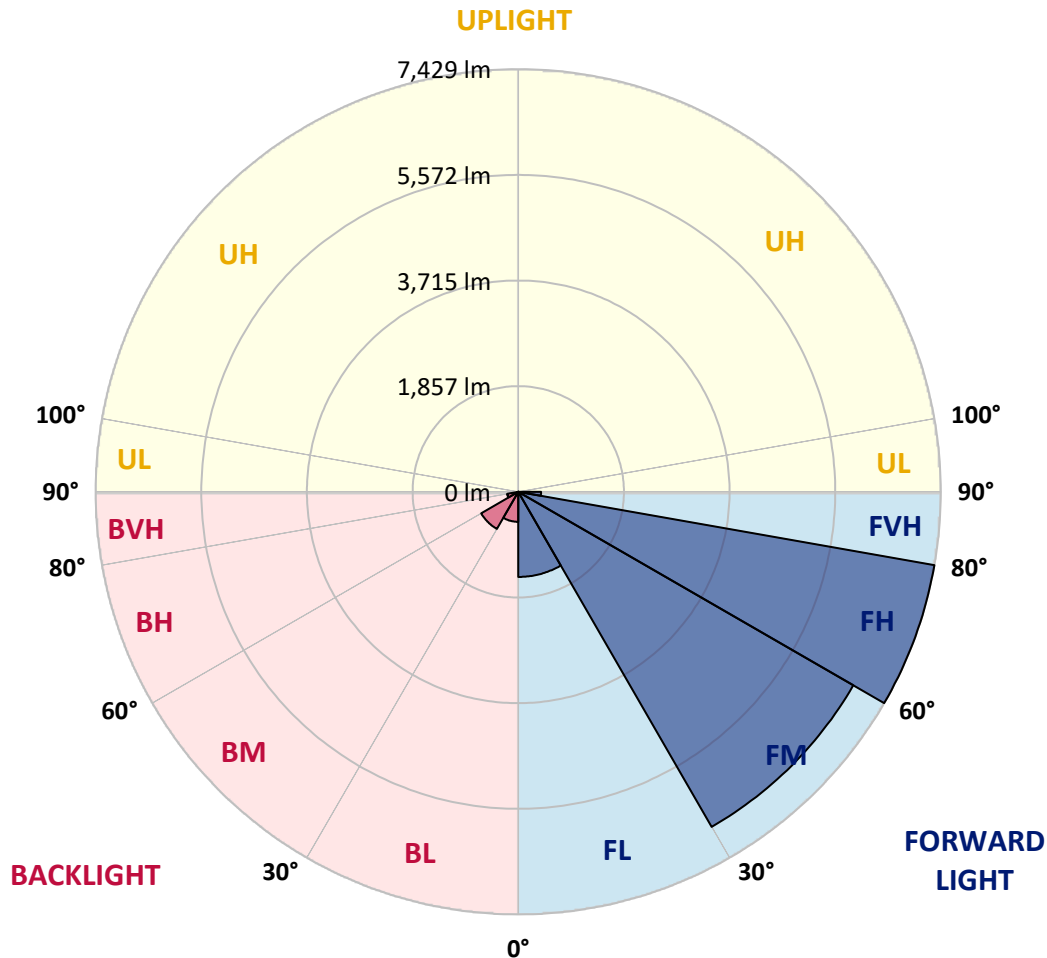
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1496.4	8.5			
FM (30°-60°)	6801.7	38.6			
FH (60°-80°)	7429.0	42.2			G3/7500
FVH (80°-90°)	400.8	2.3			G3/500
BL (0°-30°)	527.7	3.0	B2/1000		
BM (30°-60°)	752.6	4.3	B1/1000		
BH (60°-80°)	198.0	1.1	B1/500		G1/500
BVH (80°-90°)	3.8	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4
2.5°	3437.3	3438.1	3430.1	3416.8	3400.1	3391.3	3376.7	3353.2	3328.3	3283.8	3235.5
5°	3507.6	3507.6	3497.3	3479.8	3452.7	3444.7	3416.8	3379.6	3328.3	3255.9	3174.8
7.5°	3500.2	3501.7	3487.8	3469.5	3442.4	3435.2	3401.5	3359.8	3296.2	3208.4	3104.6
10°	3462.2	3465.8	3454.9	3446.1	3421.3	3413.2	3381.8	3340.1	3276.4	3182.8	3063.6
12.5°	3423.4	3427.1	3430.8	3438.8	3423.4	3420.5	3395.7	3360.6	3299.8	3202.6	3068.1
15°	3398.6	3405.9	3432.2	3463.7	3467.3	3464.4	3448.3	3415.4	3353.9	3253.1	3099.4
17.5°	3398.6	3410.3	3465.2	3525.1	3546.3	3548.5	3534.6	3488.6	3415.4	3307.2	3128.7
20°	3427.1	3443.2	3528.8	3613.6	3648.7	3648.7	3621.7	3557.3	3471.7	3356.2	3148.4
22.5°	3500.2	3521.4	3628.9	3726.9	3764.3	3756.2	3719.7	3626.0	3530.2	3411.7	3173.3
25°	3644.3	3660.4	3772.3	3871.0	3893.7	3875.4	3829.3	3709.4	3604.8	3487.1	3218.7
27.5°	3830.1	3832.3	3947.8	4031.2	4017.3	4004.9	3947.1	3813.9	3712.3	3594.6	3296.9
30°	4034.2	4034.2	4135.8	4199.4	4157.0	4146.8	4088.9	3940.5	3849.8	3740.8	3408.1
32.5°	4231.6	4240.4	4323.0	4363.3	4315.7	4305.4	4249.2	4100.7	4032.7	3963.9	3581.4
35°	4422.4	4429.0	4507.3	4529.3	4483.9	4486.8	4446.6	4320.8	4295.2	4286.4	3842.5
37.5°	4607.5	4608.9	4688.7	4702.5	4679.9	4704.8	4708.4	4597.3	4644.8	4715.8	4210.4
40°	4776.4	4777.9	4856.9	4892.8	4931.5	4963.7	4992.2	4932.9	5090.2	5254.8	4648.4
42.5°	4911.8	4927.1	5027.3	5095.3	5197.7	5259.1	5336.6	5333.8	5620.4	5867.6	5177.9
45°	5030.9	5057.3	5197.0	5316.2	5491.7	5589.8	5711.1	5806.1	6217.2	6550.0	5714.0
47.5°	5188.2	5213.0	5372.5	5567.8	5801.8	5930.5	6131.6	6337.1	6873.2	7219.9	6237.6
50°	5409.8	5398.8	5556.0	5836.1	6136.8	6305.7	6592.4	6900.3	7524.1	7803.5	6545.6
52.5°	5646.0	5641.6	5757.9	6128.0	6531.6	6729.1	7108.0	7482.5	8146.5	8205.7	6686.7
55°	5938.5	5907.1	6005.1	6460.7	7000.5	7212.6	7658.7	8058.7	8642.3	8432.5	6757.6
57.5°	6245.0	6193.1	6286.6	6831.5	7529.2	7780.1	8268.6	8620.4	8972.2	8587.5	6757.0
60°	6561.6	6500.2	6611.4	7295.2	8186.0	8476.3	8929.8	9000.0	9280.1	8665.7	6707.2
62.5°	6826.4	6789.9	6955.1	7791.1	8919.6	9204.8	9429.3	9345.2	9539.7	8726.5	6590.9
65°	7106.5	7108.7	7375.6	8369.6	9699.2	9891.5	9910.5	9792.8	9756.9	8714.1	6197.5
67.5°	7485.4	7520.5	7965.8	9155.1	10457.6	10606.0	10604.6	10277.7	9915.7	8219.6	5324.9
70°	7886.1	7968.8	8646.0	10053.8	11285.4	11436.1	11358.5	10586.3	9336.4	6646.5	3768.7
72.5°	7818.9	7962.2	9024.1	10620.7	11880.0	11994.9	11491.0	9827.9	7379.3	3863.0	1604.6
75°	6032.1	6198.1	8274.5	10058.9	11256.2	11153.0	9873.2	7647.7	4032.7	1078.0	361.3
77.5°	3186.5	3274.9	5466.1	7663.1	8776.9	8561.2	6955.1	4242.5	1229.4	267.0	162.4
80°	1669.0	1689.5	2382.0	4347.9	5417.1	5418.5	4121.9	1863.5	506.9	136.8	109.0
82.5°	893.7	911.2	1258.6	2009.0	2838.3	2572.9	1578.2	1025.4	294.7	77.5	104.6
85°	215.0	218.6	713.8	917.9	1116.0	797.1	468.8	860.8	79.7	45.4	84.9
87.5°	82.6	84.1	264.7	397.1	284.5	184.3	219.4	321.1	10.2	17.5	13.1
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°	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4	3238.4
2.5°	3206.2	3187.2	3140.4	3081.2	3028.6	2990.5	2933.4	2896.2	2871.3	2870.6	2861.1
5°	3125.1	3086.3	2985.3	2865.4	2756.4	2658.5	2542.9	2451.5	2383.5	2372.5	2349.1
7.5°	3038.1	2974.4	2819.3	2632.1	2449.3	2263.6	2047.8	1914.0	1799.1	1744.2	1738.5
10°	2984.7	2895.4	2675.3	2404.7	2118.0	1816.0	1533.6	1338.4	1197.2	1157.0	1127.0
12.5°	2973.7	2855.9	2564.1	2191.1	1781.6	1382.2	1070.0	862.2	749.6	713.8	704.2
15°	2984.7	2837.7	2470.5	1979.7	1440.7	980.7	718.2	597.5	555.1	544.9	544.1
17.5°	2991.2	2815.7	2364.5	1745.0	1110.2	700.6	550.0	514.9	508.3	507.6	509.0
20°	2990.5	2782.1	2237.9	1483.2	825.7	550.7	497.4	490.0	488.5	489.2	488.5
22.5°	2985.3	2742.6	2099.0	1213.3	623.9	492.2	474.6	470.2	469.5	469.5	469.5
25°	2994.8	2711.1	1946.1	955.1	514.1	465.1	454.1	450.5	449.8	449.8	448.4
27.5°	3029.2	2693.6	1778.6	735.0	464.4	441.0	432.2	431.5	429.3	428.6	430.0
30°	3084.8	2693.6	1595.1	571.9	434.4	416.1	409.6	408.1	407.4	406.6	407.4
32.5°	3182.8	2714.1	1394.7	475.4	405.9	388.4	384.0	386.1	384.0	384.0	384.0
35°	3359.8	2775.5	1184.7	414.6	375.9	361.3	356.9	359.9	358.4	358.4	357.6
37.5°	3617.9	2889.6	973.5	378.1	349.6	334.2	328.4	332.7	331.3	331.3	330.6
40°	3932.4	3055.6	772.3	350.4	324.0	307.9	302.8	305.0	301.4	301.4	302.8
42.5°	4320.8	3266.2	596.7	323.2	298.4	283.0	280.1	277.9	271.4	267.6	268.4
45°	4752.3	3485.6	465.1	296.9	274.2	261.9	257.5	251.6	240.6	233.3	234.0
47.5°	5137.8	3654.6	378.1	271.4	252.4	242.9	236.2	225.2	209.1	200.4	201.1
50°	5340.3	3680.2	321.8	245.7	231.9	222.4	212.9	196.0	177.0	167.5	166.7
52.5°	5392.3	3560.2	280.1	222.4	211.4	200.4	188.0	165.3	144.1	133.9	132.4
55°	5411.3	3377.4	242.9	200.4	189.4	177.0	160.9	135.3	115.5	105.4	104.6
57.5°	5348.4	3104.6	213.5	180.6	167.5	152.1	132.4	108.2	89.2	81.1	81.1
60°	5208.7	2735.2	190.9	159.4	144.8	127.2	106.8	84.1	66.5	60.0	60.0
62.5°	4930.0	2257.0	169.6	137.5	123.6	105.4	86.3	63.6	46.8	43.1	43.9
65°	4404.2	1712.1	148.5	117.7	105.4	87.0	67.3	45.4	31.5	31.5	32.9
67.5°	3591.7	1189.2	126.5	100.2	90.7	71.0	51.2	31.5	22.0	24.9	27.8
70°	2377.6	667.0	108.2	82.6	77.5	56.4	38.0	21.2	17.5	23.4	28.5
72.5°	897.4	259.6	90.7	66.5	67.3	43.1	27.0	16.1	16.1	25.6	33.6
75°	250.1	127.2	65.1	49.0	52.6	31.5	19.7	13.9	15.4	29.3	39.5
77.5°	147.0	93.6	42.4	28.5	35.9	22.0	13.1	11.0	13.1	24.9	38.0
80°	118.5	49.7	24.9	14.6	19.7	12.4	8.8	6.6	3.6	9.5	19.7
82.5°	118.5	30.0	11.7	10.2	10.2	6.6	4.4	2.9	0.7	0.0	5.1
85°	79.7	12.4	7.4	6.6	5.1	2.2	1.5	0.7	0.0	0.0	0.0
87.5°	13.1	5.1	2.9	1.5	0.7	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)