

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: P383208

Luminaire Tested: **GLEON-SA5B-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5B-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20463.3 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

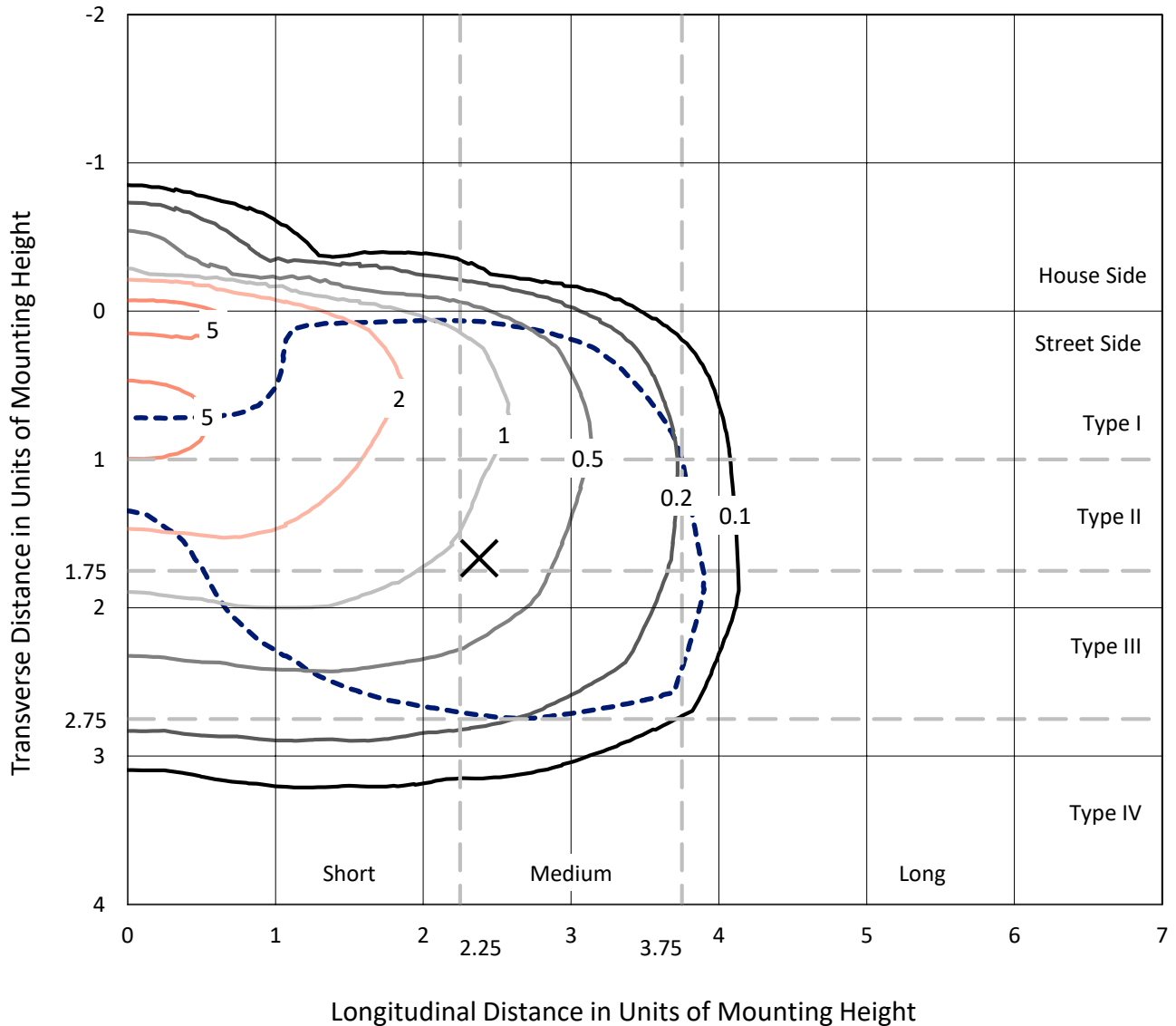
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383208
 CATALOG NUMBER: GLEON-SA5B-735-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

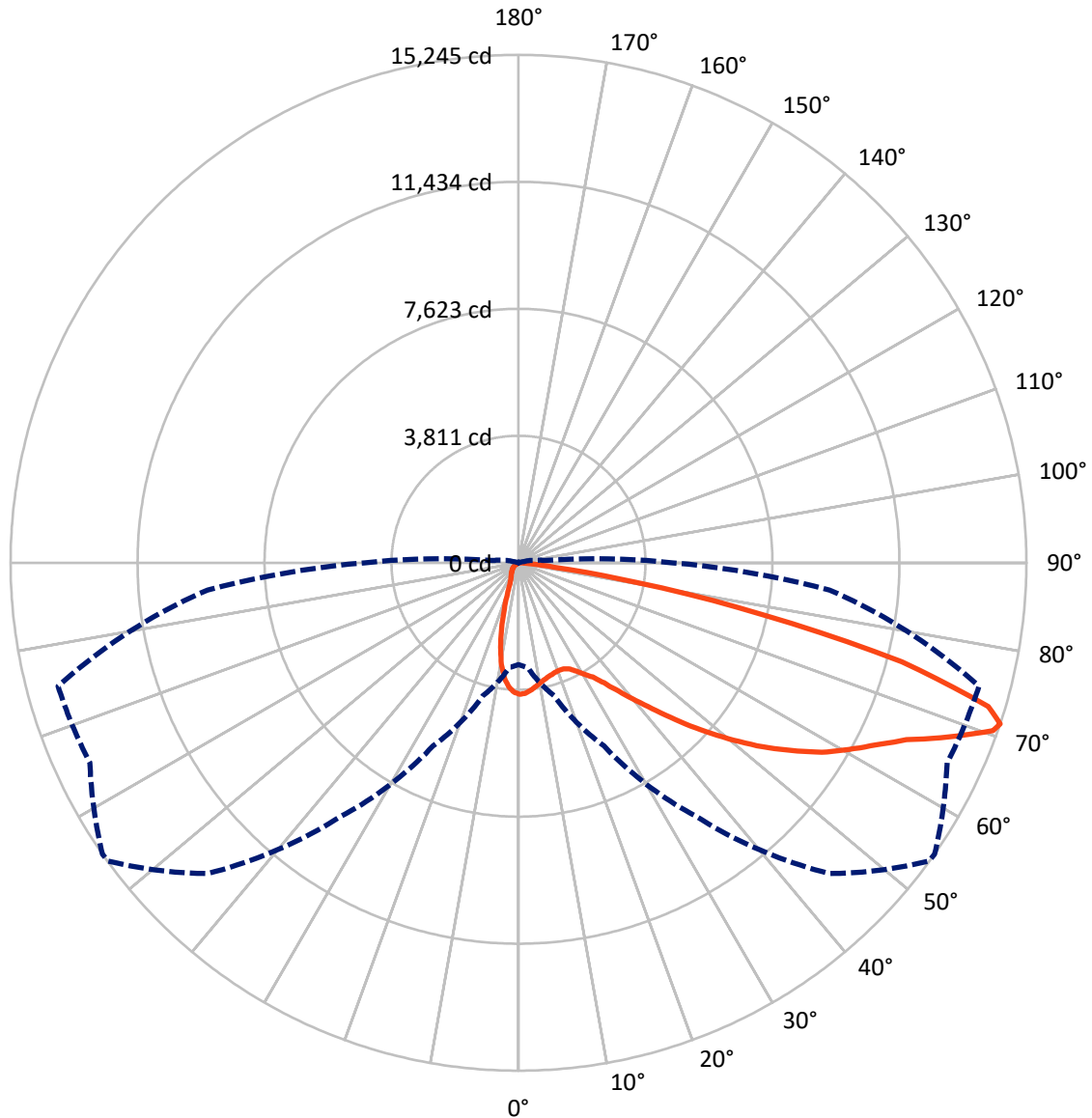
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P383208
CATALOG NUMBER: GLEON-SA5B-735-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1620.1	0.0	1620.1
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	18843.2	0.0	18843.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	20463.3	0.0	20463.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.5	1.6
10°-20°	759.6	3.7
20°-30°	1220.8	6.0
30°-40°	2074.1	10.1
40°-50°	3219.3	15.7
50°-60°	4328.3	21.2
60°-70°	5295.0	25.9
70°-80°	3095.8	15.1
80°-90°	133.8	0.7
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°	20463.3	100.0
0°-180°	20463.3	100.0

Coefficient of Utilization

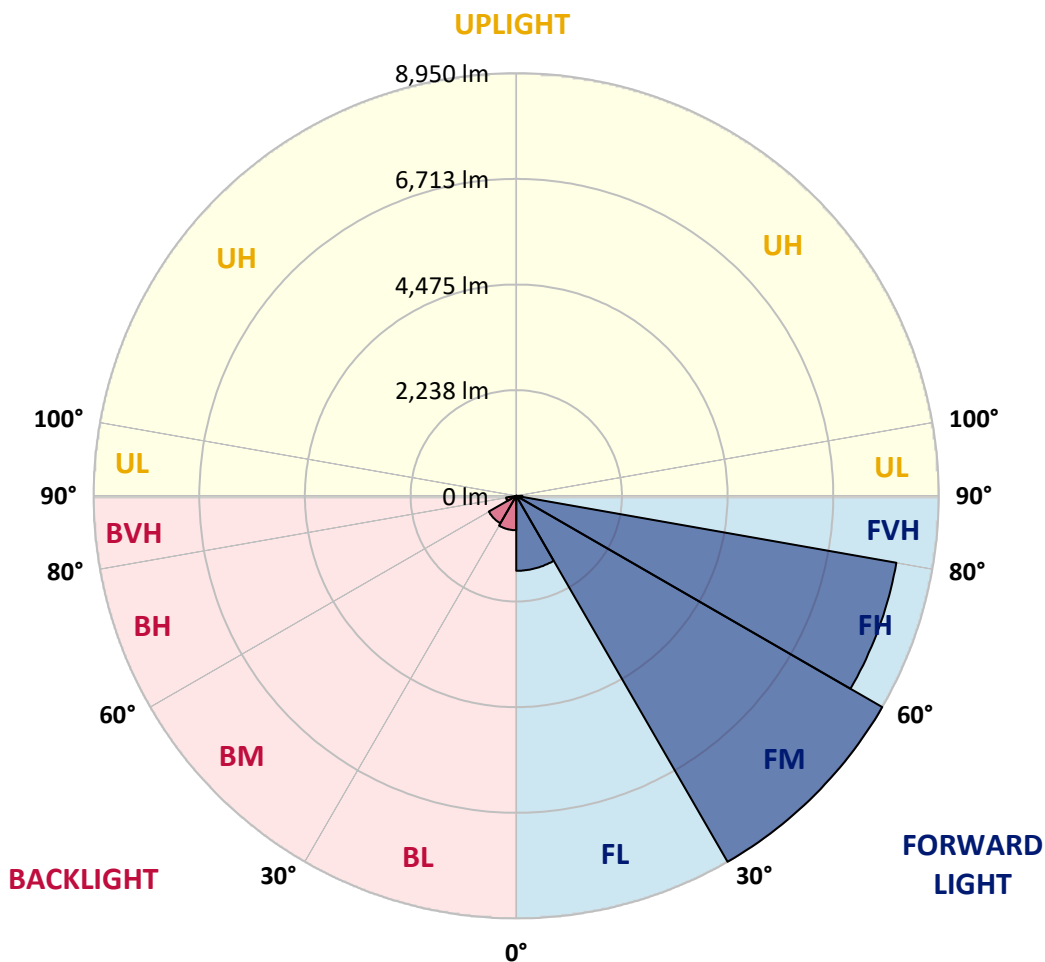


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1587.7	7.8			
FM (30°-60°)	8950.1	43.7			
FH (60°-80°)	8173.7	39.9			G4/12000
FVH (80°-90°)	131.7	0.6			G2/225
BL (0°-30°)	729.2	3.6	B2/1000		
BM (30°-60°)	671.7	3.3	B1/1000		
BH (60°-80°)	217.1	1.1	B1/500		G1/500
BVH (80°-90°)	2.1	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 III Medium





REPORT NUMBER: P383208

CATALOG NUMBER: GLEON-SA5B-735-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3946.4	3946.4	3946.4	3946.4	3946.4	3946.4	3946.4	3946.4	3946.4	3946.4	3946.4
2.5°	3830.6	3835.3	3851.8	3859.1	3876.6	3906.0	3920.7	3921.6	3945.5	3954.7	3962.1
5°	3559.6	3587.1	3614.7	3644.1	3697.4	3768.2	3838.0	3844.4	3921.6	3978.5	4008.9
7.5°	3326.2	3351.1	3384.1	3431.0	3506.3	3617.5	3734.2	3748.0	3894.1	4023.6	4091.6
10°	3086.4	3106.6	3154.4	3223.2	3327.1	3476.0	3633.1	3656.0	3869.3	4084.3	4203.7
12.5°	2830.0	2842.0	2899.9	2999.1	3151.6	3340.9	3547.6	3578.0	3853.6	4154.1	4336.0
15°	2635.3	2640.8	2695.9	2798.8	2973.4	3219.6	3481.5	3518.3	3857.3	4237.7	4480.3
17.5°	2585.6	2588.4	2617.7	2688.5	2842.9	3111.2	3429.1	3474.1	3868.3	4319.5	4625.4
20°	2786.8	2767.5	2737.3	2726.2	2792.3	3046.0	3397.9	3448.4	3883.1	4392.1	4755.9
22.5°	3339.0	3282.1	3156.2	2988.0	2886.1	3050.5	3406.1	3456.7	3929.9	4481.2	4906.6
25°	4158.7	4079.6	3865.5	3534.8	3216.8	3182.8	3475.0	3526.5	4020.8	4587.8	5050.9
27.5°	5091.3	5013.2	4751.4	4279.1	3736.9	3444.8	3633.1	3680.9	4155.9	4682.4	5161.1
30°	5984.4	5962.4	5653.7	5117.0	4391.1	3869.3	3837.0	3877.5	4256.1	4739.3	5248.4
32.5°	6741.5	6706.6	6458.5	5936.7	5140.0	4379.2	4076.9	4088.8	4331.4	4812.9	5362.4
35°	7443.5	7400.3	7182.6	6689.2	5908.2	5002.1	4446.3	4428.9	4495.9	4960.9	5527.7
37.5°	8056.4	8095.9	7854.3	7384.8	6597.3	5649.9	4944.3	4891.9	4753.1	5201.6	5767.6
40°	8569.1	8569.1	8443.3	8051.8	7341.5	6319.8	5507.5	5438.7	5140.0	5572.8	6071.7
42.5°	8753.8	8793.3	8840.2	8618.8	8007.7	7016.2	6135.1	6063.4	5684.9	6099.3	6455.8
45°	8764.8	8827.3	9067.1	9066.2	8609.5	7708.2	6842.6	6808.6	6383.2	6775.5	6931.7
47.5°	8609.5	8687.6	9082.8	9306.9	9086.4	8352.3	7616.2	7574.0	7203.8	7604.3	7429.7
50°	8369.8	8456.1	8915.5	9401.6	9410.8	8912.8	8431.3	8367.9	8107.0	8551.6	7944.3
52.5°	7940.6	8107.8	8765.8	9423.6	9623.9	9397.0	9206.8	9179.2	9117.6	9464.1	8354.1
55°	7022.7	7208.3	8390.0	9431.0	9821.5	9826.1	9933.6	9940.9	10065.0	10316.7	8659.2
57.5°	6589.0	6693.7	7733.9	9465.9	10114.6	10313.1	10674.1	10731.1	10923.1	11126.2	9007.4
60°	6316.1	6440.2	7410.5	9418.1	10574.9	10951.6	11360.6	11379.9	11585.7	11961.4	9478.8
62.5°	6098.4	6220.6	7206.5	9234.3	11092.2	11719.8	12031.3	12033.2	12187.5	12956.6	10014.4
65°	5560.8	5663.7	6793.9	9027.6	11434.1	12479.7	12810.5	12798.5	12924.4	14005.9	10636.5
67.5°	4783.5	4862.5	5951.4	8243.8	11305.4	13170.7	13986.6	13947.1	13794.5	14912.8	10880.9
70°	3698.3	3726.8	4690.7	6870.2	10099.9	13436.2	15123.2	15103.0	14328.4	14750.1	9985.1
71°	3057.0	3150.7	4133.8	6063.4	9292.3	13190.9	15233.5	15245.4	14194.3	14307.3	9368.5
72.5°	1775.2	1855.2	2996.3	4656.7	7889.2	12167.3	14661.9	14748.4	13567.6	13013.5	8002.2
75°	380.4	407.1	1110.9	2253.9	4339.7	8527.8	11572.8	11880.6	11058.2	8853.1	4823.0
77.5°	264.7	285.8	475.9	1022.7	1434.3	4213.8	7189.0	7536.3	6606.4	3327.1	1543.7
80°	209.5	233.4	371.2	505.4	387.7	1358.9	3367.5	3579.8	2203.4	742.4	260.0
82.5°	116.7	138.7	289.4	272.9	148.9	258.2	942.7	1065.9	441.1	149.8	61.6
85°	34.0	41.4	186.5	198.5	63.4	49.7	160.8	199.4	83.7	39.5	27.6
87.5°	0.0	0.0	90.1	76.3	18.4	7.4	14.7	16.6	16.6	16.6	18.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383208

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3946.4	3946.4	3946.4	3946.4	3946.4	3946.4	3946.4	3946.4	3946.4	3946.4	3946.4
2.5°	3962.1	3968.5	3945.5	3915.2	3883.1	3843.5	3802.2	3770.0	3769.0	3753.5	3737.8
5°	4010.8	4007.1	3943.7	3847.2	3733.3	3614.7	3501.7	3374.0	3331.7	3279.3	3261.9
7.5°	4100.8	4075.1	3940.9	3729.5	3479.6	3231.5	2975.2	2717.0	2606.7	2507.5	2490.0
10°	4213.8	4165.1	3923.5	3553.2	3094.7	2637.1	2250.2	1899.2	1744.9	1626.4	1620.8
12.5°	4331.4	4257.0	3874.8	3286.7	2590.2	1947.0	1501.4	1155.9	1027.3	944.6	951.9
15°	4454.6	4343.3	3770.0	2927.4	2016.0	1321.3	922.5	719.4	668.0	646.9	652.4
17.5°	4580.4	4403.1	3623.9	2494.7	1449.0	852.6	638.6	581.7	581.7	586.2	588.1
20°	4689.8	4435.3	3408.9	2009.5	982.2	621.2	558.6	550.4	555.0	562.4	563.2
22.5°	4798.2	4437.1	3128.7	1518.0	687.3	543.9	532.0	528.4	531.1	539.4	540.3
25°	4886.4	4415.1	2777.7	1079.7	548.6	512.7	507.2	505.4	507.2	517.3	517.3
27.5°	4922.2	4335.0	2349.5	758.9	491.6	477.8	475.9	477.8	480.6	487.9	488.8
30°	4925.9	4195.4	1882.8	549.4	445.7	430.9	434.6	441.1	438.3	436.4	438.3
32.5°	4935.1	4033.7	1427.9	452.1	407.1	384.1	379.5	379.5	368.4	362.0	358.4
35°	4965.4	3843.5	1035.5	406.2	367.5	340.9	323.4	303.2	282.1	271.1	268.3
37.5°	5013.2	3644.1	741.5	375.8	332.7	302.3	269.2	233.4	203.1	194.8	194.8
40°	5100.5	3438.3	548.6	351.9	305.1	267.4	217.8	170.9	143.4	138.7	138.7
42.5°	5238.3	3221.5	437.4	330.8	281.1	231.6	166.3	124.1	103.9	101.1	100.1
45°	5381.6	2982.5	382.2	310.6	255.4	190.2	123.2	91.9	79.9	77.2	77.2
47.5°	5525.0	2728.0	355.6	291.3	230.7	147.9	91.9	72.6	67.1	67.1	68.0
50°	5646.3	2462.5	336.3	270.1	198.5	112.1	72.6	61.6	59.7	63.4	64.3
52.5°	5676.6	2201.5	312.4	243.5	158.9	85.4	59.7	54.2	54.2	54.2	54.2
55°	5658.2	1999.4	281.1	210.4	117.7	68.0	51.4	47.8	46.9	46.9	46.9
57.5°	5720.7	1880.0	225.2	163.6	84.5	55.1	45.0	42.3	40.4	39.5	39.5
60°	5846.6	1801.9	160.8	117.7	63.4	45.9	38.6	35.9	33.1	31.2	31.2
62.5°	6013.8	1733.9	119.4	87.3	48.7	36.8	32.1	29.4	25.7	23.8	23.8
65°	6142.4	1612.6	90.9	65.2	36.8	29.4	24.8	23.8	18.4	16.6	15.6
67.5°	5945.8	1346.1	73.5	47.8	27.6	23.0	19.3	18.4	11.0	9.2	9.2
70°	5099.6	937.2	58.8	34.9	20.2	18.4	15.6	11.9	8.3	7.4	7.4
71°	4624.5	782.9	53.3	29.4	17.4	17.4	14.7	10.1	7.4	6.4	6.4
72.5°	3841.7	555.9	45.0	23.0	15.6	18.4	15.6	9.2	7.4	6.4	5.5
75°	2230.0	232.4	31.2	15.6	11.9	22.1	20.2	8.3	5.5	4.6	4.6
77.5°	670.7	85.4	17.4	10.1	9.2	19.3	23.0	7.4	2.8	0.9	0.9
80°	122.2	36.8	11.0	6.4	6.4	11.9	17.4	3.6	0.0	0.0	0.0
82.5°	43.2	18.4	6.4	3.6	2.8	5.5	8.3	0.0	0.0	0.0	0.0
85°	24.8	12.9	3.6	1.9	0.0	0.9	1.9	0.0	0.0	0.0	0.0
87.5°	16.6	3.6	0.0	0.0	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)