

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: P383012

Luminaire Tested: **GLEON-SA3C-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383012
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-SA3C-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA 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: 15471.2 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

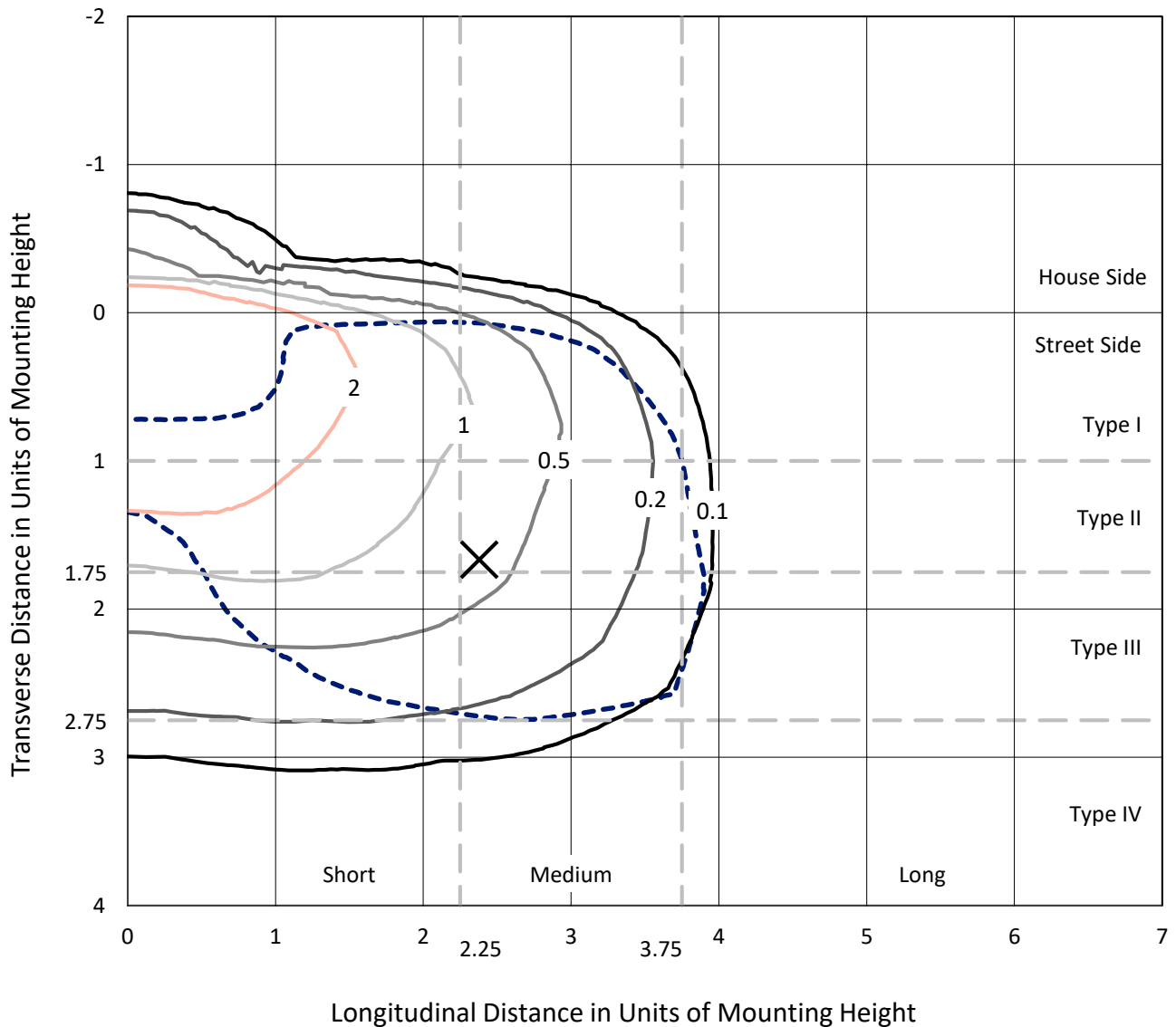
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

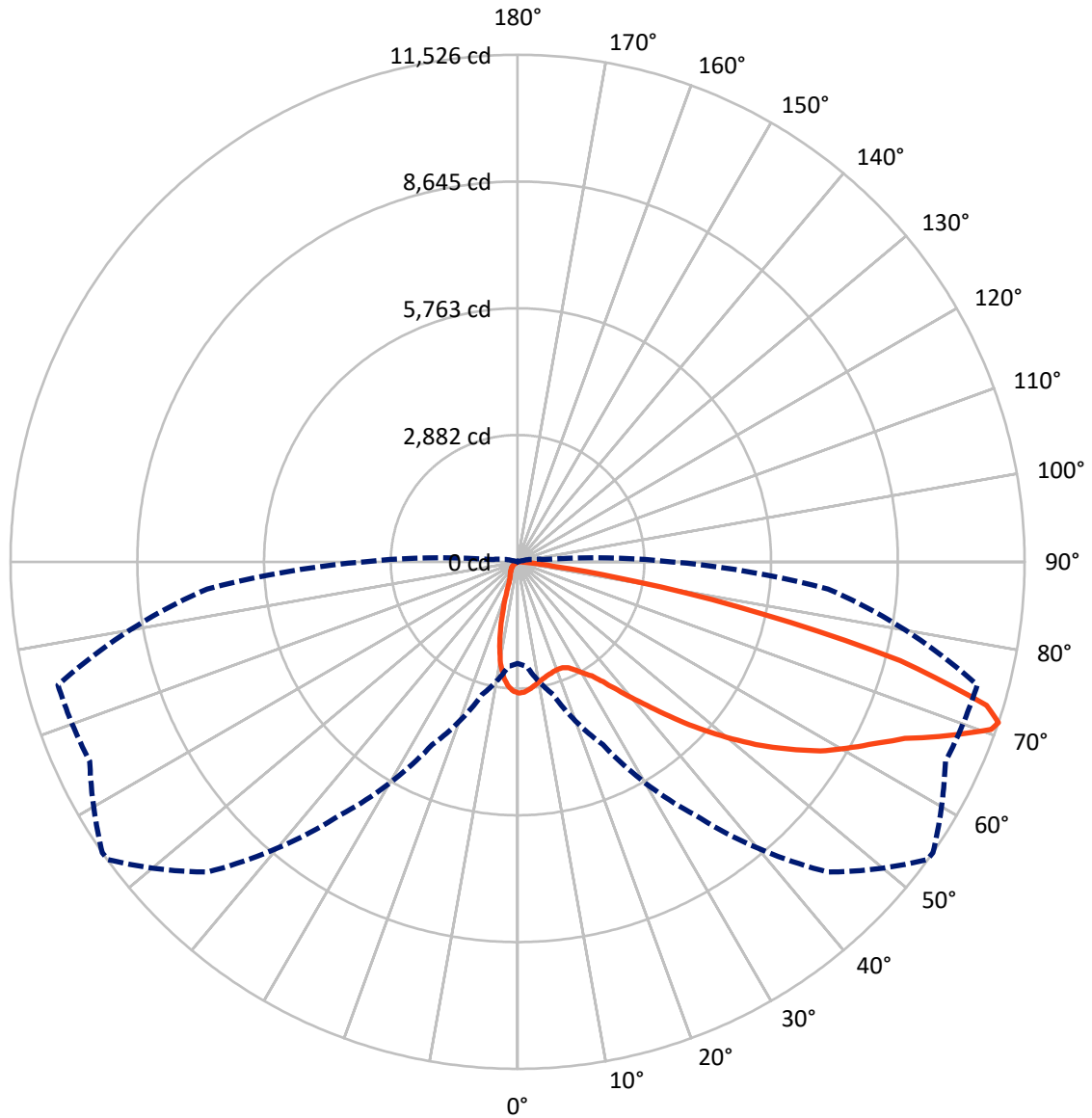
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - N/A

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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	1224.9	0.0	1224.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	14246.3	0.0	14246.3
	% Fixture	92.1	0.0	92.1
Total	Lumens	15471.2	0.0	15471.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.4	1.6
10°-20°	574.3	3.7
20°-30°	923.0	6.0
30°-40°	1568.1	10.1
40°-50°	2434.0	15.7
50°-60°	3272.4	21.2
60°-70°	4003.2	25.9
70°-80°	2340.6	15.1
80°-90°	101.2	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°	15471.2	100.0
0°-180°	15471.2	100.0

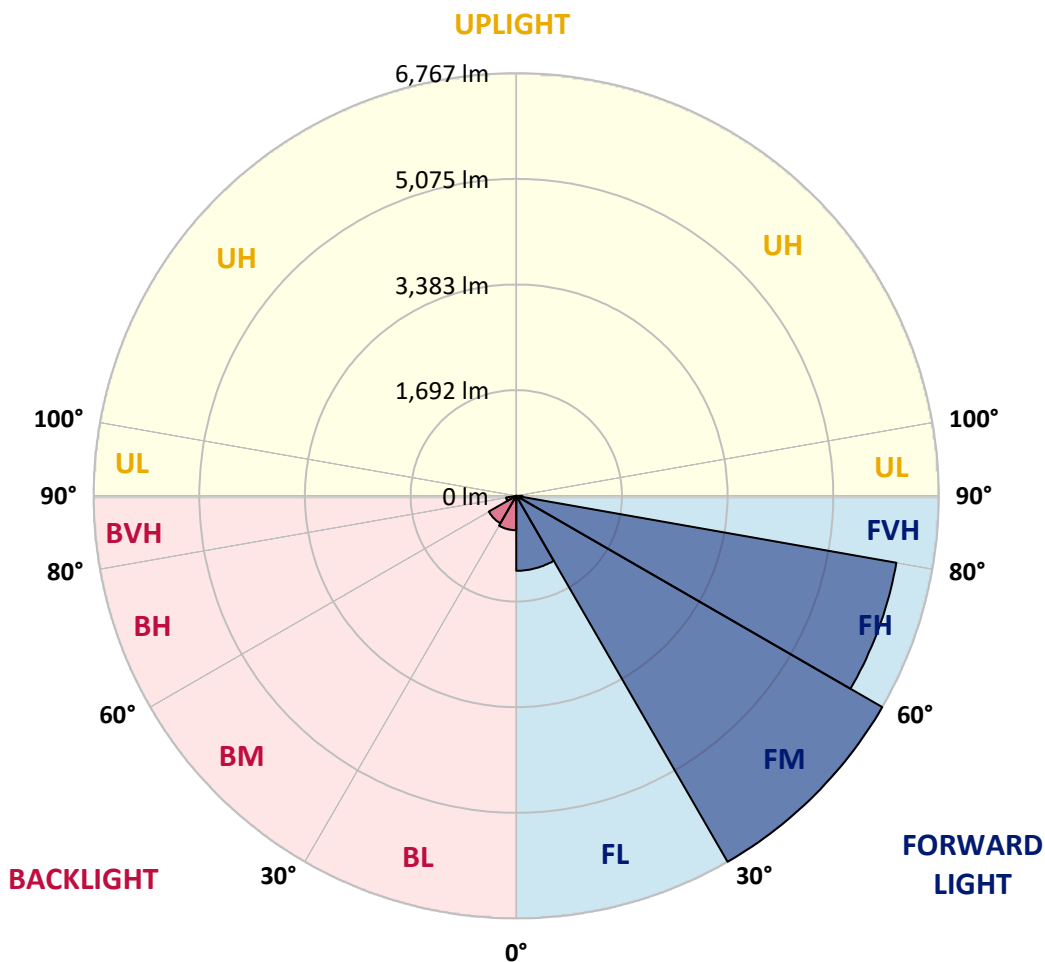


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1200.3	7.8			
FM (30°-60°)	6766.6	43.7			
FH (60°-80°)	6179.7	39.9			G3/7500
FVH (80°-90°)	99.6	0.6			G1/100
BL (0°-30°)	551.3	3.6	B2/1000		
BM (30°-60°)	507.9	3.3	B1/1000		
BH (60°-80°)	164.1	1.1	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2983.7	2983.7	2983.7	2983.7	2983.7	2983.7	2983.7	2983.7	2983.7	2983.7	2983.7
2.5°	2896.2	2899.6	2912.1	2917.7	2930.8	2953.1	2964.2	2964.9	2983.0	2989.9	2995.5
5°	2691.2	2712.0	2732.9	2755.1	2795.4	2848.9	2901.7	2906.5	2964.9	3008.0	3030.9
7.5°	2514.7	2533.5	2558.5	2594.0	2650.9	2734.9	2823.1	2833.6	2944.1	3042.1	3093.4
10°	2333.4	2348.7	2384.9	2436.9	2515.5	2628.0	2746.8	2764.2	2925.3	3087.9	3178.2
12.5°	2139.6	2148.6	2192.4	2267.5	2382.8	2525.9	2682.2	2705.1	2913.5	3140.6	3278.2
15°	1992.4	1996.5	2038.2	2116.0	2248.0	2434.1	2632.2	2659.9	2916.3	3203.9	3387.3
17.5°	1954.9	1956.9	1979.2	2032.6	2149.4	2352.2	2592.6	2626.6	2924.6	3265.7	3497.0
20°	2107.0	2092.3	2069.4	2061.1	2111.2	2302.9	2568.9	2607.1	2935.8	3320.6	3595.7
22.5°	2524.5	2481.4	2386.3	2259.1	2182.0	2306.3	2575.2	2613.4	2971.2	3387.9	3709.6
25°	3144.2	3084.4	2922.5	2672.4	2432.1	2406.4	2627.3	2666.2	3039.9	3468.5	3818.7
27.5°	3849.2	3790.2	3592.2	3235.2	2825.3	2604.3	2746.8	2782.9	3142.0	3540.1	3902.1
30°	4524.4	4507.8	4274.4	3868.7	3319.8	2925.3	2901.0	2931.6	3217.8	3583.2	3968.0
32.5°	5096.9	5070.5	4882.9	4488.4	3886.0	3310.9	3082.3	3091.3	3274.8	3638.7	4054.2
35°	5627.7	5595.0	5430.4	5057.3	4466.8	3781.9	3361.6	3348.4	3399.1	3750.6	4179.2
37.5°	6091.0	6120.8	5938.2	5583.1	4987.8	4271.6	3738.1	3698.5	3593.6	3932.6	4360.6
40°	6478.6	6478.6	6383.4	6087.5	5550.5	4778.0	4163.9	4111.9	3886.0	4213.3	4590.5
42.5°	6618.3	6648.1	6683.6	6516.2	6054.1	5304.6	4638.4	4584.2	4298.0	4611.3	4880.8
45°	6626.6	6673.8	6855.2	6854.4	6509.2	5827.7	5173.3	5147.6	4826.0	5122.6	5240.7
47.5°	6509.2	6568.2	6866.9	7036.4	6869.7	6314.7	5758.3	5726.3	5446.3	5749.2	5617.2
50°	6327.9	6393.2	6740.5	7108.0	7115.0	6738.4	6374.4	6326.5	6129.2	6465.4	6006.2
52.5°	6003.5	6129.9	6627.3	7124.7	7276.1	7104.5	6960.7	6939.8	6893.4	7155.2	6316.1
55°	5309.4	5449.8	6343.2	7130.3	7425.5	7428.9	7510.2	7515.8	7609.5	7799.9	6546.7
57.5°	4981.5	5060.7	5847.1	7156.6	7647.1	7797.1	8070.2	8113.2	8258.4	8412.0	6810.0
60°	4775.3	4869.0	5602.6	7120.5	7995.1	8280.0	8589.1	8603.7	8759.2	9043.4	7166.4
62.5°	4610.6	4703.0	5448.4	6981.6	8386.3	8860.7	9096.2	9097.6	9214.3	9795.7	7571.3
65°	4204.3	4282.0	5136.5	6825.3	8644.7	9435.2	9685.3	9676.3	9771.4	10589.1	8041.7
67.5°	3616.5	3676.3	4499.5	6232.7	8547.4	9957.6	10574.5	10544.6	10429.3	11274.7	8226.4
70°	2796.1	2817.7	3546.4	5194.1	7636.0	10158.3	11433.8	11418.5	10832.9	11151.7	7549.2
71°	2311.2	2382.1	3125.3	4584.2	7025.4	9972.9	11517.2	11526.2	10731.4	10816.9	7083.0
72.5°	1342.2	1402.5	2265.3	3520.7	5964.5	9199.0	11085.0	11150.3	10257.7	9838.8	6050.0
75°	287.6	307.8	839.9	1704.1	3281.0	6447.3	8749.6	8982.3	8360.5	6693.3	3646.4
77.5°	200.1	216.0	359.9	773.2	1084.4	3185.8	5435.2	5697.8	4994.8	2515.5	1167.0
80°	158.4	176.4	280.7	382.1	293.2	1027.4	2546.0	2706.5	1665.9	561.4	196.6
82.5°	88.2	104.9	218.8	206.3	112.5	195.3	712.7	805.8	333.5	113.3	46.6
85°	25.7	31.3	141.0	150.1	48.0	37.5	121.6	150.7	63.3	29.9	20.9
87.5°	0.0	0.0	68.1	57.7	13.9	5.6	11.1	12.5	12.5	12.5	13.9
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°	2983.7	2983.7	2983.7	2983.7	2983.7	2983.7	2983.7	2983.7	2983.7	2983.7	2983.7
2.5°	2995.5	3000.3	2983.0	2960.1	2935.8	2905.9	2874.6	2850.3	2849.6	2837.8	2825.9
5°	3032.3	3029.5	2981.6	2908.7	2822.5	2732.9	2647.5	2550.9	2518.9	2479.3	2466.1
7.5°	3100.4	3080.9	2979.5	2819.7	2630.8	2443.2	2249.4	2054.2	1970.8	1895.8	1882.6
10°	3185.8	3149.0	2966.3	2686.3	2339.7	1993.7	1701.3	1435.9	1319.2	1229.5	1225.5
12.5°	3274.8	3218.5	2929.4	2484.9	1958.3	1472.0	1135.1	873.9	776.6	714.1	719.7
15°	3367.8	3283.8	2850.3	2213.3	1524.1	999.0	697.4	543.9	505.0	489.1	493.3
17.5°	3463.0	3328.9	2739.9	1886.1	1095.5	644.6	482.8	439.7	439.7	443.2	444.6
20°	3545.7	3353.2	2577.3	1519.3	742.6	469.6	422.4	416.1	419.6	425.2	425.8
22.5°	3627.6	3354.6	2365.4	1147.6	519.6	411.3	402.2	399.4	401.5	407.7	408.5
25°	3694.3	3337.9	2100.0	816.2	414.7	387.6	383.4	382.1	383.4	391.1	391.1
27.5°	3721.4	3277.6	1776.3	573.8	371.7	361.3	359.9	361.3	363.3	368.9	369.5
30°	3724.2	3171.9	1423.4	415.4	336.9	325.8	328.6	333.5	331.4	330.0	331.4
32.5°	3731.1	3049.7	1079.6	341.8	307.8	290.4	286.9	286.9	278.5	273.7	270.9
35°	3754.0	2905.9	782.9	307.0	277.9	257.8	244.5	229.3	213.2	204.9	202.9
37.5°	3790.2	2755.1	560.6	284.1	251.5	228.5	203.5	176.4	153.5	147.3	147.3
40°	3856.1	2599.5	414.7	266.0	230.7	202.1	164.6	129.2	108.3	104.9	104.9
42.5°	3960.4	2435.5	330.7	250.1	212.6	175.0	125.8	93.8	78.5	76.4	75.7
45°	4068.7	2254.9	289.0	234.8	193.1	143.8	93.1	69.5	60.5	58.3	58.3
47.5°	4177.2	2062.5	268.8	220.2	174.4	111.9	69.5	54.9	50.7	50.7	51.4
50°	4268.8	1861.8	254.2	204.2	150.1	84.8	54.9	46.6	45.2	48.0	48.6
52.5°	4291.7	1664.5	236.1	184.1	120.2	64.6	45.2	41.0	41.0	41.0	41.0
55°	4277.9	1511.6	212.6	159.1	89.0	51.4	38.9	36.1	35.4	35.4	35.4
57.5°	4325.1	1421.4	170.2	123.6	63.9	41.6	34.0	32.0	30.6	29.9	29.9
60°	4420.3	1362.3	121.6	89.0	48.0	34.7	29.2	27.1	25.0	23.7	23.7
62.5°	4546.7	1310.9	90.3	66.0	36.8	27.8	24.3	22.3	19.5	18.1	18.1
65°	4644.0	1219.2	68.7	49.3	27.8	22.3	18.7	18.1	13.9	12.5	11.8
67.5°	4495.3	1017.7	55.6	36.1	20.9	17.3	14.6	13.9	8.3	7.0	7.0
70°	3855.5	708.5	44.4	26.4	15.3	13.9	11.8	9.0	6.2	5.6	5.6
71°	3496.4	591.9	40.3	22.3	13.2	13.2	11.1	7.6	5.6	4.8	4.8
72.5°	2904.5	420.3	34.0	17.3	11.8	13.9	11.8	7.0	5.6	4.8	4.2
75°	1686.0	175.8	23.7	11.8	9.0	16.7	15.3	6.2	4.2	3.4	3.4
77.5°	507.1	64.6	13.2	7.6	7.0	14.6	17.3	5.6	2.0	0.7	0.7
80°	92.4	27.8	8.3	4.8	4.8	9.0	13.2	2.8	0.0	0.0	0.0
82.5°	32.6	13.9	4.8	2.8	2.0	4.2	6.2	0.0	0.0	0.0	0.0
85°	18.7	9.7	2.8	1.4	0.0	0.7	1.4	0.0	0.0	0.0	0.0
87.5°	12.5	2.8	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)