

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: P383096

Luminaire Tested: **GLEON-SA4B-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383096
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-SA4B-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 16515.4 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

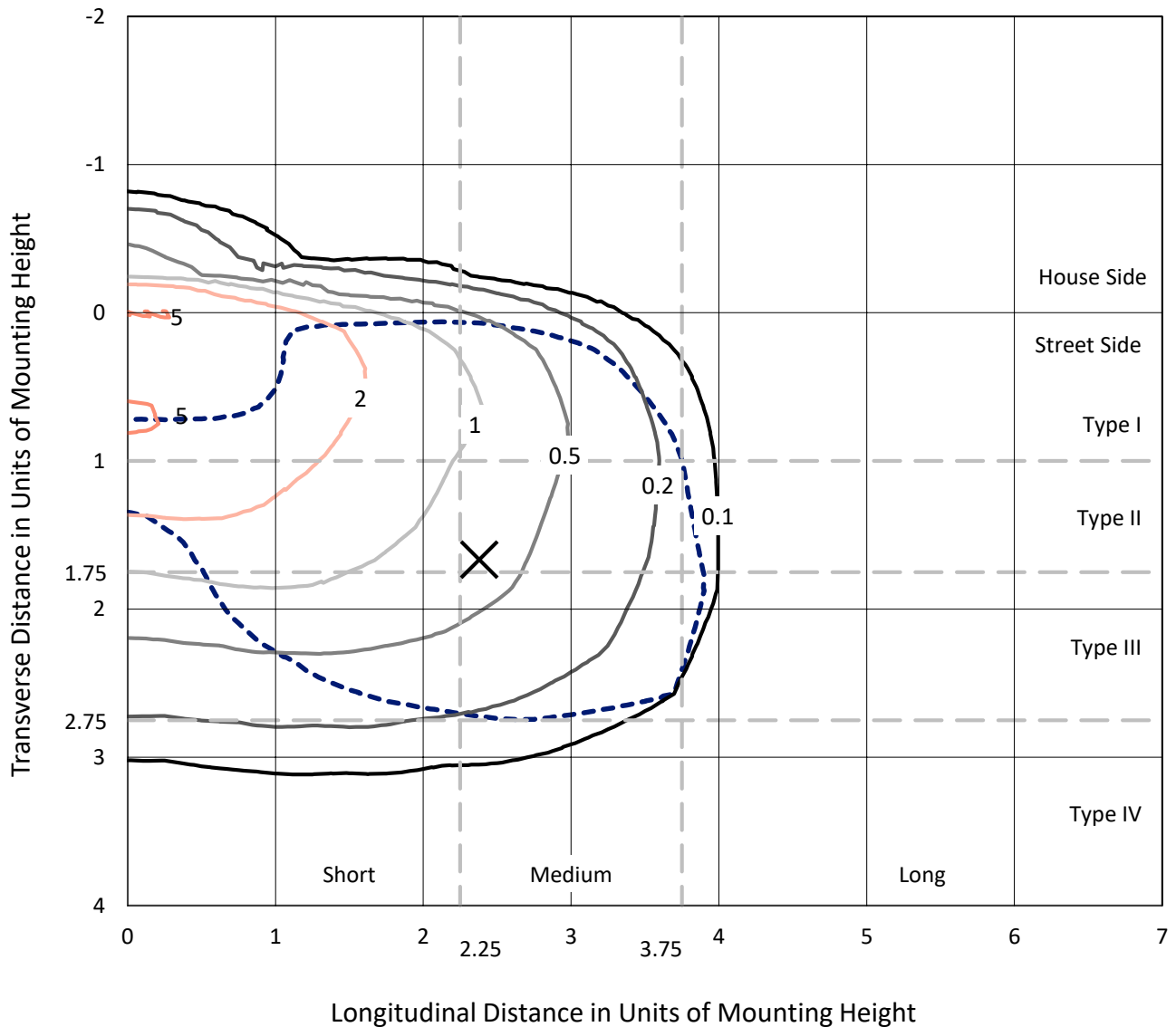
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

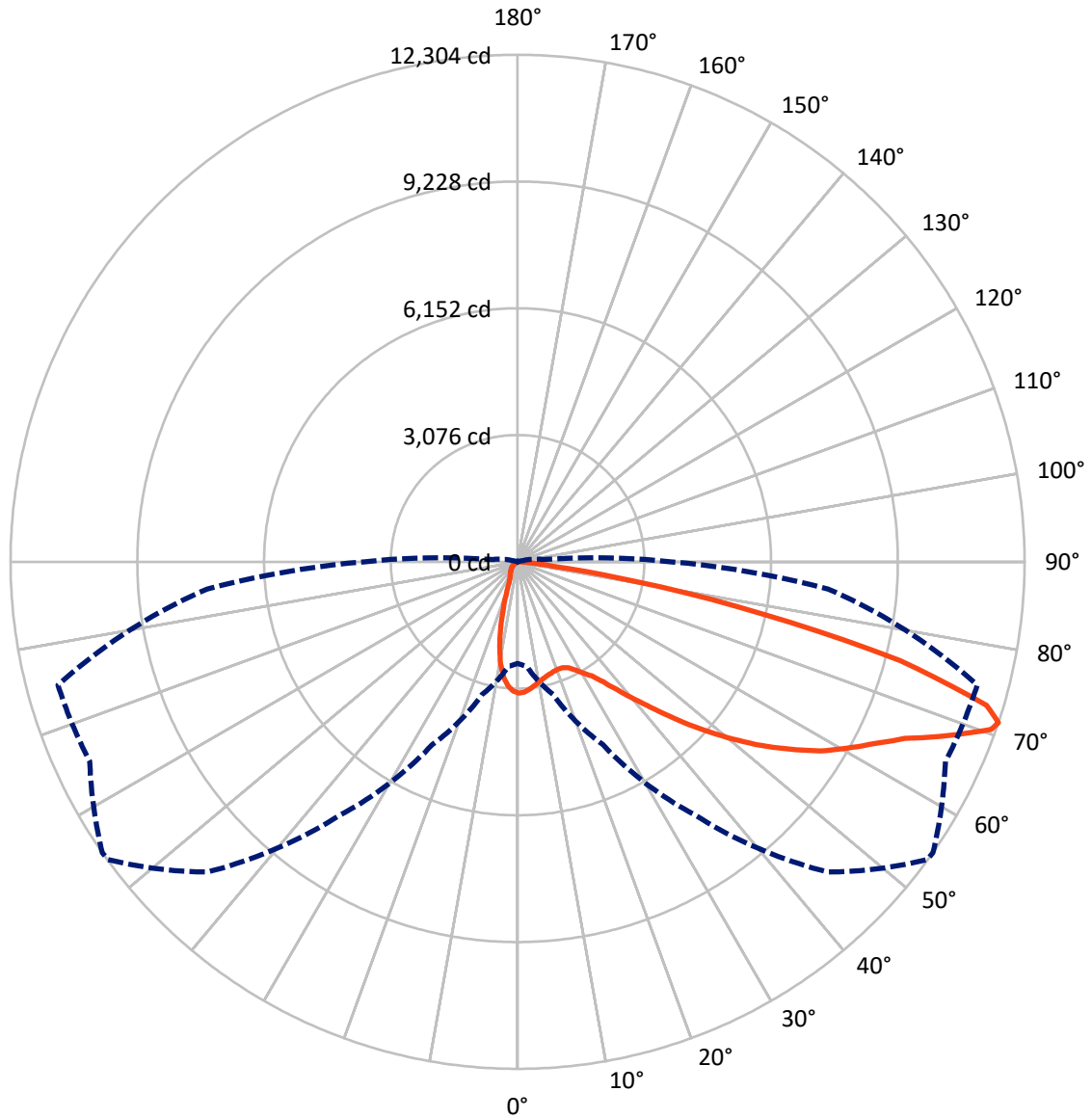
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	1307.6	0.0	1307.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	15207.8	0.0	15207.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	16515.4	0.0	16515.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.6	1.6
10°-20°	613.1	3.7
20°-30°	985.3	6.0
30°-40°	1674.0	10.1
40°-50°	2598.2	15.7
50°-60°	3493.3	21.2
60°-70°	4273.4	25.9
70°-80°	2498.6	15.1
80°-90°	108.0	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°	16515.4	100.0
0°-180°	16515.4	100.0

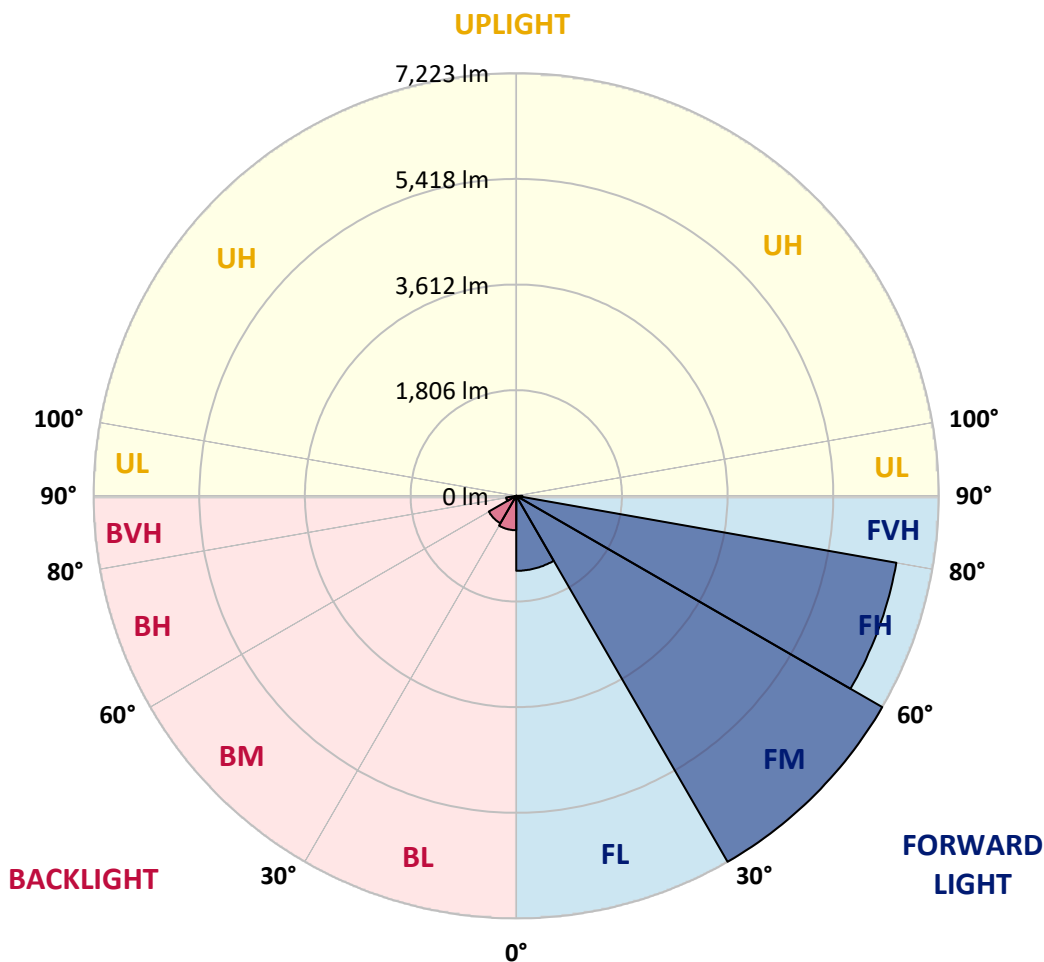


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.4	7.8			
FM (30°-60°)	7223.4	43.7			
FH (60°-80°)	6596.8	39.9			G3/7500
FVH (80°-90°)	106.3	0.6			G2/225
BL (0°-30°)	588.5	3.6	B2/1000		
BM (30°-60°)	542.1	3.3	B1/1000		
BH (60°-80°)	175.2	1.1	B1/500		G1/500
BVH (80°-90°)	1.7	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°	3185.1	3185.1	3185.1	3185.1	3185.1	3185.1	3185.1	3185.1	3185.1	3185.1	3185.1
2.5°	3091.6	3095.3	3108.7	3114.6	3128.7	3152.5	3164.3	3165.0	3184.3	3191.8	3197.6
5°	2872.9	2895.1	2917.3	2941.1	2984.1	3041.2	3097.6	3102.7	3165.0	3211.0	3235.5
7.5°	2684.5	2704.6	2731.2	2769.0	2829.9	2919.6	3013.7	3024.9	3142.8	3247.4	3302.2
10°	2491.0	2507.3	2545.8	2601.4	2685.3	2805.4	2932.1	2950.7	3122.7	3296.3	3392.7
12.5°	2284.1	2293.7	2340.4	2420.5	2543.6	2696.4	2863.2	2887.7	3110.2	3352.6	3499.5
15°	2126.8	2131.3	2175.8	2258.8	2399.8	2598.5	2809.8	2839.5	3113.1	3420.2	3615.9
17.5°	2086.8	2089.0	2112.7	2169.9	2294.4	2511.0	2767.5	2803.9	3122.0	3486.1	3733.1
20°	2249.2	2233.6	2209.2	2200.2	2253.6	2458.4	2742.4	2783.1	3133.9	3544.7	3838.3
22.5°	2694.9	2648.9	2547.3	2411.6	2329.2	2462.0	2749.0	2789.8	3171.7	3616.6	3960.0
25°	3356.4	3292.6	3119.8	2852.9	2596.2	2568.8	2804.6	2846.2	3245.1	3702.7	4076.5
27.5°	4109.1	4046.0	3834.7	3453.5	3016.0	2780.1	2932.1	2970.7	3354.1	3779.0	4165.4
30°	4829.9	4812.1	4562.9	4129.8	3544.0	3122.7	3096.8	3129.4	3435.0	3825.0	4235.8
32.5°	5440.9	5412.8	5212.5	4791.3	4148.4	3534.3	3290.3	3300.0	3495.8	3884.4	4327.8
35°	6007.5	5972.6	5796.8	5398.7	4768.3	4037.1	3588.5	3574.3	3628.5	4003.8	4461.3
37.5°	6502.1	6534.0	6339.0	5960.0	5324.5	4559.9	3990.4	3948.2	3836.1	4198.0	4654.9
40°	6915.9	6915.9	6814.3	6498.4	5925.2	5100.5	4445.0	4389.4	4148.4	4497.6	4900.3
42.5°	7065.0	7096.8	7134.6	6956.0	6462.8	5662.7	4951.5	4893.6	4588.2	4922.6	5210.3
45°	7073.9	7124.3	7317.9	7317.1	6948.5	6221.1	5522.5	5495.0	5151.7	5468.4	5594.4
47.5°	6948.5	7011.6	7330.4	7511.3	7333.4	6740.9	6146.9	6112.8	5814.0	6137.2	5996.4
50°	6755.0	6824.7	7195.5	7587.7	7595.2	7193.2	6804.7	6753.5	6542.9	6901.8	6411.7
52.5°	6408.7	6543.7	7074.6	7605.5	7767.2	7584.1	7430.6	7408.3	7358.7	7638.2	6742.4
55°	5667.8	5817.6	6771.3	7611.5	7926.6	7930.4	8017.2	8023.0	8123.2	8326.4	6988.6
57.5°	5317.8	5402.3	6241.8	7639.7	8163.2	8323.4	8614.9	8660.8	8815.8	8979.7	7269.6
60°	5097.6	5197.7	5980.8	7601.1	8534.7	8838.8	9168.9	9184.4	9350.5	9653.8	7650.1
62.5°	4921.8	5020.5	5816.1	7452.8	8952.3	9458.7	9710.2	9711.7	9836.2	10456.9	8082.4
65°	4488.0	4571.0	5483.2	7285.9	9228.1	10072.1	10339.0	10329.4	10431.0	11303.8	8584.5
67.5°	3860.6	3924.4	4803.2	6653.4	9124.3	10629.7	11288.2	11256.4	11133.2	12035.7	8781.7
70°	2984.9	3007.8	3785.7	5544.8	8151.4	10844.1	12205.5	12189.2	11564.0	11904.4	8058.6
71°	2467.2	2542.8	3336.3	4893.6	7499.5	10646.0	12294.6	12304.2	11455.8	11547.0	7561.1
72.5°	1432.7	1497.3	2418.3	3758.3	6367.1	9819.9	11833.3	11902.9	10950.1	10502.9	6458.3
75°	307.0	328.6	896.5	1819.0	3502.4	6882.6	9340.1	9588.5	8924.8	7145.1	3892.5
77.5°	213.6	230.7	384.2	825.4	1157.6	3400.9	5802.1	6082.4	5331.9	2685.3	1245.9
80°	169.1	188.4	299.6	407.8	312.9	1096.8	2717.9	2889.2	1778.3	599.2	209.9
82.5°	94.2	112.0	233.6	220.2	120.2	208.4	760.9	860.2	355.9	120.9	49.7
85°	27.5	33.3	150.5	160.2	51.1	40.1	129.8	160.9	67.4	31.9	22.3
87.5°	0.0	0.0	72.7	61.6	14.8	6.0	11.8	13.3	13.3	13.3	14.8
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°	3185.1	3185.1	3185.1	3185.1	3185.1	3185.1	3185.1	3185.1	3185.1	3185.1	3185.1
2.5°	3197.6	3202.8	3184.3	3159.8	3133.9	3102.0	3068.6	3042.7	3042.0	3029.3	3016.7
5°	3236.9	3234.0	3182.8	3104.9	3013.0	2917.3	2826.1	2723.1	2688.9	2646.7	2632.6
7.5°	3309.6	3288.9	3180.6	3010.0	2808.3	2608.1	2401.3	2192.9	2103.8	2023.8	2009.6
10°	3400.9	3361.6	3166.5	2867.7	2497.6	2128.3	1816.1	1532.9	1408.2	1312.6	1308.2
12.5°	3495.8	3435.7	3127.2	2652.6	2090.5	1571.4	1211.8	932.9	829.1	762.4	768.2
15°	3595.1	3505.4	3042.7	2362.7	1627.0	1066.3	744.5	580.6	539.1	522.0	526.5
17.5°	3696.8	3553.6	2924.8	2013.4	1169.5	688.1	515.4	469.4	469.4	473.1	474.6
20°	3785.0	3579.6	2751.2	1621.8	792.7	501.3	450.9	444.2	447.9	453.8	454.6
22.5°	3872.5	3581.1	2525.1	1225.1	554.7	439.0	429.4	426.4	428.6	435.3	436.1
25°	3943.7	3563.3	2241.8	871.4	442.8	413.8	409.3	407.8	409.3	417.5	417.5
27.5°	3972.6	3498.7	1896.2	612.6	396.7	385.7	384.2	385.7	387.8	393.8	394.5
30°	3975.6	3386.0	1519.4	443.4	359.7	347.8	350.7	355.9	353.7	352.2	353.7
32.5°	3983.0	3255.5	1152.4	364.9	328.6	310.0	306.3	306.3	297.3	292.1	289.2
35°	4007.4	3102.0	835.8	327.8	296.6	275.1	261.0	244.7	227.7	218.7	216.6
37.5°	4046.0	2941.1	598.4	303.3	268.5	244.0	217.2	188.4	163.9	157.2	157.2
40°	4116.5	2775.0	442.8	284.0	246.2	215.8	175.8	138.0	115.7	112.0	112.0
42.5°	4227.7	2599.9	353.0	267.0	226.9	186.9	134.2	100.1	83.8	81.6	80.9
45°	4343.4	2407.1	308.5	250.7	206.2	153.5	99.4	74.2	64.6	62.3	62.3
47.5°	4459.0	2201.7	287.0	235.1	186.1	119.4	74.2	58.6	54.1	54.1	54.9
50°	4556.9	1987.5	271.5	218.0	160.2	90.5	58.6	49.7	48.2	51.1	51.9
52.5°	4581.4	1776.8	252.2	196.6	128.3	68.9	48.2	43.8	43.8	43.8	43.8
55°	4566.6	1613.6	226.9	169.8	94.9	54.9	41.5	38.6	37.8	37.8	37.8
57.5°	4617.0	1517.2	181.7	132.0	68.2	44.5	36.3	34.1	32.6	31.9	31.9
60°	4718.7	1454.2	129.8	94.9	51.1	37.1	31.1	28.9	26.7	25.2	25.2
62.5°	4853.5	1399.4	96.4	70.4	39.3	29.6	26.0	23.8	20.8	19.3	19.3
65°	4957.4	1301.5	73.4	52.6	29.6	23.8	20.0	19.3	14.8	13.3	12.6
67.5°	4798.7	1086.4	59.3	38.6	22.3	18.5	15.6	14.8	8.9	7.5	7.5
70°	4115.8	756.4	47.4	28.2	16.3	14.8	12.6	9.6	6.7	6.0	6.0
71°	3732.3	631.8	43.0	23.8	14.1	14.1	11.8	8.2	6.0	5.2	5.2
72.5°	3100.5	448.6	36.3	18.5	12.6	14.8	12.6	7.5	6.0	5.2	4.5
75°	1799.8	187.6	25.2	12.6	9.6	17.8	16.3	6.7	4.5	3.7	3.7
77.5°	541.3	68.9	14.1	8.2	7.5	15.6	18.5	6.0	2.2	0.7	0.7
80°	98.7	29.6	8.9	5.2	5.2	9.6	14.1	3.0	0.0	0.0	0.0
82.5°	34.8	14.8	5.2	3.0	2.2	4.5	6.7	0.0	0.0	0.0	0.0
85°	20.0	10.3	3.0	1.5	0.0	0.7	1.5	0.0	0.0	0.0	0.0
87.5°	13.3	3.0	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)