

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: P531675

Luminaire Tested: **GALN-SA7A-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15908 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

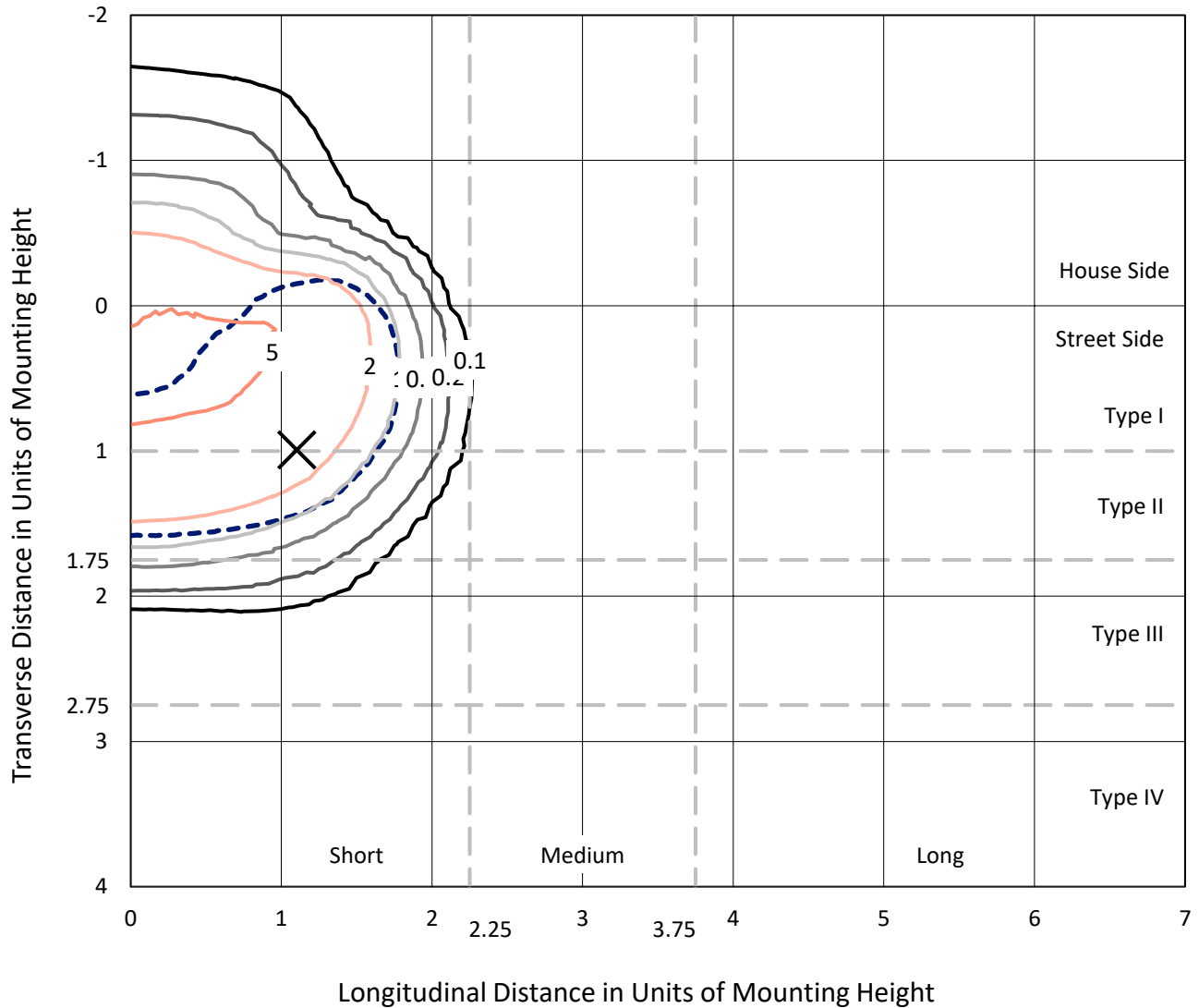
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

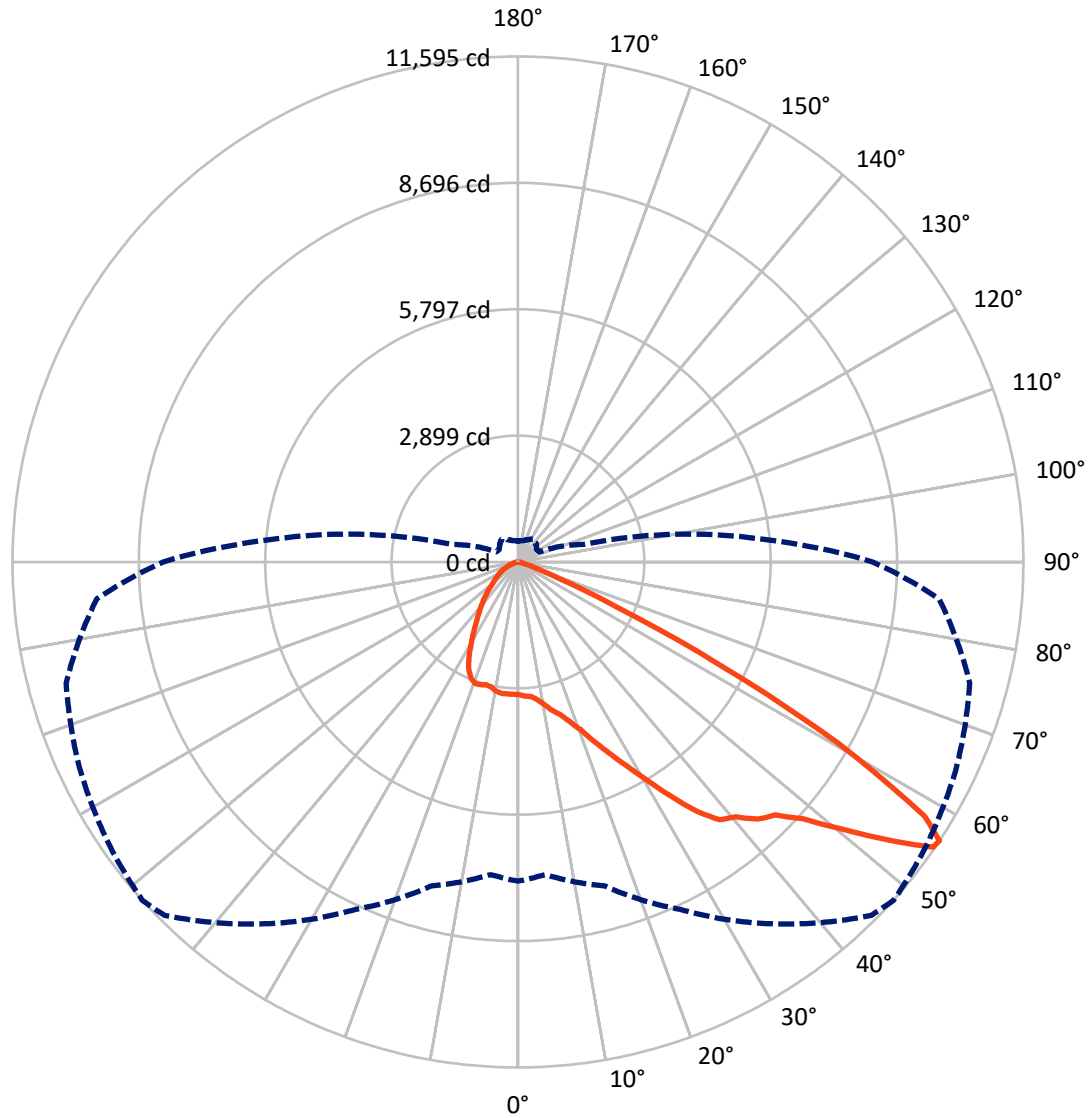
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3459.7	0.0	3459.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	12448.3	0.0	12448.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	15908.0	0.0	15908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.0	1.9
10°-20°	945.9	5.9
20°-30°	1715.7	10.8
30°-40°	2695.0	16.9
40°-50°	3931.4	24.7
50°-60°	4736.6	29.8
60°-70°	1386.8	8.7
70°-80°	175.9	1.1
80°-90°	24.7	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°	15908.0	100.0
0°-180°	15908.0	100.0

Coefficient of Utilization

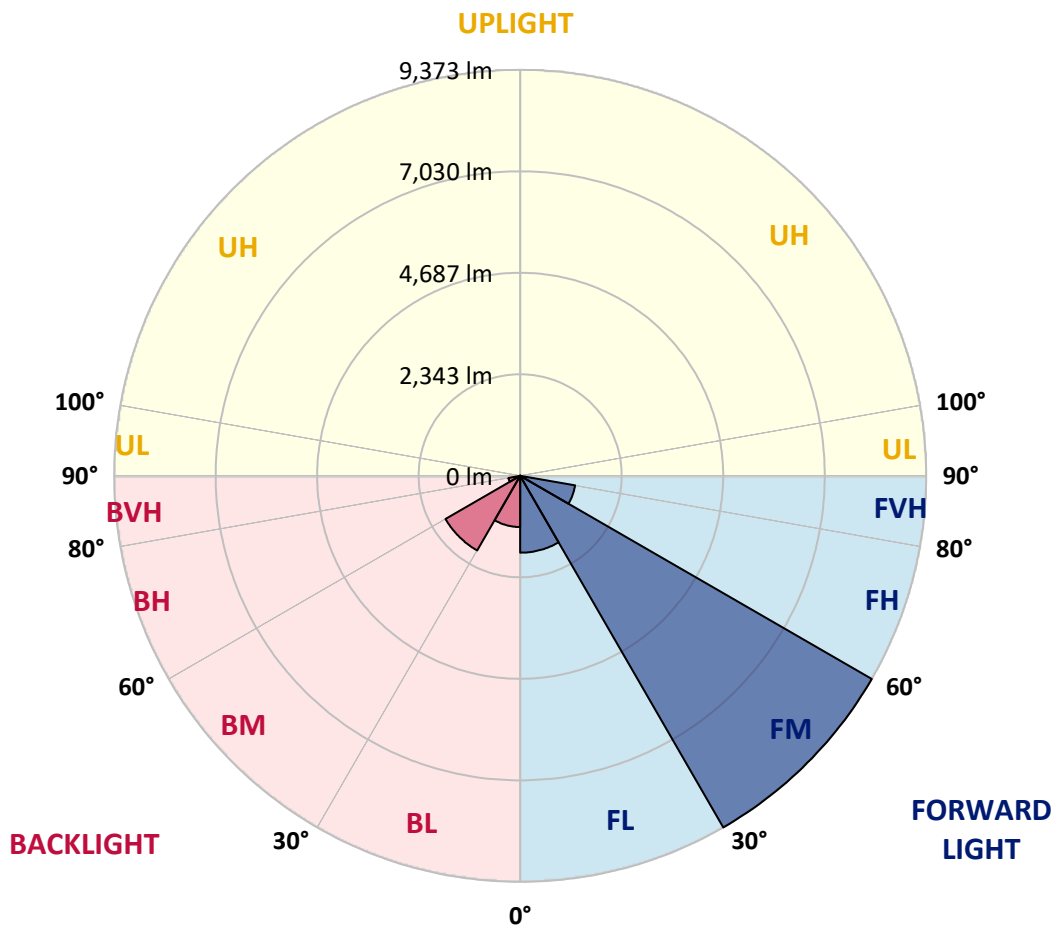


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1775.0	11.2			
FM (30°-60°)	9373.0	58.9			
FH (60°-80°)	1287.9	8.1			G1/1800
FVH (80°-90°)	12.4	0.1			G1/100
BL (0°-30°)	1182.5	7.4	B3/2500		
BM (30°-60°)	1990.0	12.5	B2/2500		
BH (60°-80°)	274.9	1.7	B1/500		G1/500
BVH (80°-90°)	12.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4
2.5°	3093.5	3079.0	3079.0	3055.8	3081.9	3070.3	3079.0	3050.0	3079.0	3035.5	3070.3
5°	3108.0	3110.8	3099.3	3113.7	3113.7	3131.1	3102.2	3128.2	3142.7	3110.8	3096.4
7.5°	3183.3	3189.1	3186.2	3174.6	3197.7	3194.8	3191.9	3171.7	3177.5	3165.9	3148.5
10°	3331.0	3328.1	3342.6	3313.6	3296.2	3316.5	3322.3	3290.4	3267.3	3258.6	3203.5
12.5°	3545.3	3510.6	3490.3	3461.3	3470.0	3441.0	3493.2	3438.2	3426.6	3374.4	3319.4
15°	3719.1	3713.3	3716.2	3669.9	3617.7	3629.3	3629.3	3600.4	3583.0	3519.3	3441.0
17.5°	4075.4	3953.7	3979.8	3921.9	3878.4	3875.5	3849.5	3855.2	3808.9	3675.7	3556.9
20°	4353.4	4301.3	4260.8	4162.3	4095.7	4115.9	4104.3	4075.4	4060.9	3887.1	3719.1
22.5°	4602.5	4619.9	4553.3	4527.2	4434.6	4443.2	4466.4	4440.3	4330.3	4150.7	3901.6
25°	4953.0	4932.7	4843.0	4811.1	4724.2	4756.1	4845.9	4825.6	4756.1	4431.7	4043.5
27.5°	5367.2	5297.7	5315.1	5170.3	5086.3	5176.1	5283.2	5384.6	5187.6	4761.9	4211.5
30°	5659.8	5587.4	5581.6	5575.8	5555.5	5659.8	5784.3	5877.0	5717.7	5092.1	4489.6
32.5°	5804.6	5822.0	5871.2	5853.8	6030.5	6244.9	6375.2	6508.4	6308.6	5630.8	4857.4
35°	6189.8	6079.8	6189.8	6201.4	6383.9	6838.7	7003.8	7322.4	7273.1	6392.6	5306.4
37.5°	6415.8	6407.1	6421.6	6531.6	6708.3	7270.2	7504.8	7751.1	7658.4	6850.2	5865.4
40°	6789.4	6812.6	6809.7	6893.7	7087.8	7594.6	7690.2	7890.1	7898.8	7484.6	6688.0
42.5°	7389.0	7296.3	7235.5	7322.4	7594.6	7875.6	8066.8	8026.2	8313.0	8255.0	7745.3
45°	7927.7	7982.8	7893.0	8037.8	8136.3	8286.9	8281.1	8368.0	8733.0	9008.1	8541.8
47.5°	8431.7	8466.5	8509.9	8608.4	8822.8	8845.9	8796.7	8759.0	9263.0	9546.9	9158.8
50°	8733.0	8764.8	8967.6	9144.3	9544.0	9596.1	9625.1	9529.5	9871.3	9903.2	9740.9
52.5°	8651.9	8686.6	8970.5	9552.7	10189.9	10667.8	10580.9	10418.7	10398.5	10523.0	10279.7
55°	7933.5	7901.7	8292.7	9199.3	10392.7	11539.7	11551.3	11380.4	11053.1	10969.1	10198.6
56°	7322.4	7197.8	7696.0	8790.9	10132.0	11464.4	11594.7	11412.2	11105.2	10728.7	9697.5
57.5°	5998.7	6117.4	6612.7	7519.3	9231.2	10922.7	10998.0	10954.6	10722.9	10091.4	8533.1
60°	3307.8	3516.4	3953.7	5063.1	6572.2	8382.5	8443.3	8796.7	8840.1	7727.9	5871.2
62.5°	1404.8	1381.6	1836.4	2653.2	3742.3	5060.2	5173.2	5535.2	5601.8	4454.8	2945.7
65°	570.6	602.5	831.3	1335.3	1978.3	2305.6	2464.9	2583.7	2803.8	1839.3	1086.2
67.5°	376.5	373.6	489.5	761.8	1065.9	1028.3	1028.3	1086.2	1005.1	750.2	469.2
70°	269.4	278.1	350.5	527.2	663.3	492.4	472.1	451.9	512.7	495.3	379.4
72.5°	176.7	188.3	234.6	315.7	344.7	269.4	269.4	324.4	422.9	399.7	309.9
75°	115.9	118.8	144.8	182.5	170.9	139.0	153.5	217.2	307.0	295.4	220.1
77.5°	78.2	81.1	98.5	118.8	95.6	78.2	84.0	110.1	150.6	150.6	115.9
80°	29.0	31.9	40.6	37.7	43.4	55.0	60.8	75.3	89.8	89.8	78.2
82.5°	0.0	2.9	8.7	20.3	31.9	43.4	49.2	57.9	66.6	75.3	72.4
85°	0.0	2.9	8.7	14.5	23.2	26.1	29.0	20.3	17.4	17.4	14.5
87.5°	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9	5.8	2.9	2.9
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°	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4	3038.4
2.5°	3038.4	3035.5	3035.5	3026.8	3044.2	3035.5	3041.3	3038.4	3000.8	3029.7	3009.5
5°	3070.3	3090.6	3058.7	3052.9	3029.7	3038.4	3038.4	3009.5	3035.5	3032.6	3026.8
7.5°	3151.4	3116.6	3081.9	3047.1	3041.3	3032.6	3000.8	2989.2	3009.5	2986.3	3021.1
10°	3186.2	3191.9	3139.8	3093.5	3050.0	2989.2	2945.7	2919.7	2887.8	2922.6	2942.9
12.5°	3345.5	3287.5	3197.7	3125.3	2977.6	2916.8	2873.3	2861.7	2916.8	2928.4	2908.1
15°	3400.5	3391.8	3275.9	3113.7	2960.2	2887.8	2896.5	2873.3	2879.1	2850.2	2856.0
17.5°	3513.5	3415.0	3278.8	3076.1	2957.3	2940.0	2887.8	2795.1	2743.0	2719.8	2740.1
20°	3638.0	3542.4	3345.5	3090.6	2983.4	2937.1	2766.2	2653.2	2546.0	2488.1	2491.0
22.5°	3748.1	3629.3	3316.5	3096.4	3006.6	2815.4	2609.8	2386.7	2253.5	2163.7	2166.6
25°	3881.3	3713.3	3328.1	3108.0	2945.7	2621.3	2325.9	2108.7	1949.3	1888.5	1908.8
27.5°	3956.6	3765.5	3391.8	3134.0	2786.4	2346.2	2027.6	1824.8	1732.1	1703.1	1700.2
30°	4182.6	3881.3	3470.0	3081.9	2520.0	2050.7	1755.3	1630.7	1540.9	1514.9	1520.7
32.5°	4518.5	4092.8	3571.4	2945.7	2247.7	1787.1	1578.6	1485.9	1401.9	1352.7	1346.9
35°	4799.5	4454.8	3678.6	2734.3	1932.0	1584.4	1454.0	1338.2	1210.7	1155.7	1141.2
37.5°	5335.4	4863.2	3655.4	2415.7	1630.7	1433.8	1320.8	1178.9	1068.8	993.5	984.8
40°	6047.9	5341.2	3542.4	2027.6	1407.7	1300.5	1178.9	1042.7	906.6	842.9	837.1
42.5°	6914.0	5926.3	3336.8	1633.6	1184.7	1167.3	1057.2	900.8	779.2	732.8	735.7
45°	7617.8	6427.3	3128.2	1312.1	1019.6	1036.9	941.4	793.6	709.6	672.0	672.0
47.5°	8243.5	6766.2	2902.3	1083.3	866.1	906.6	822.6	735.7	663.3	634.3	628.5
50°	8845.9	7110.9	2676.4	877.6	738.6	779.2	770.5	701.0	643.0	608.3	611.2
52.5°	9222.5	7166.0	2389.6	718.3	645.9	692.3	721.2	657.5	593.8	573.5	567.7
55°	8761.9	6456.3	1853.8	590.9	547.4	608.3	663.3	590.9	541.6	506.9	504.0
56°	8142.1	5772.7	1549.6	544.5	518.5	585.1	643.0	564.8	509.8	489.5	475.0
57.5°	6893.7	4724.2	1144.1	483.7	480.8	544.5	611.2	538.8	475.0	457.6	457.6
60°	4298.4	2659.0	692.3	405.5	417.1	483.7	550.3	480.8	422.9	422.9	431.6
62.5°	1958.0	1106.5	420.0	344.7	359.2	417.1	489.5	434.5	402.6	434.5	440.3
65°	666.2	477.9	304.1	275.2	283.9	344.7	420.0	440.3	437.4	457.6	469.2
67.5°	373.6	307.0	254.9	228.8	223.0	254.9	344.7	440.3	422.9	414.2	420.0
70°	315.7	260.7	225.9	202.8	194.1	205.7	266.5	333.1	298.3	289.7	283.9
72.5°	254.9	217.2	197.0	182.5	156.4	133.2	121.7	127.4	141.9	150.6	165.1
75°	179.6	165.1	165.1	147.7	113.0	84.0	66.6	55.0	37.7	26.1	29.0
77.5°	101.4	101.4	104.3	89.8	72.4	55.0	40.6	29.0	14.5	5.8	2.9
80°	69.5	75.3	81.1	72.4	60.8	49.2	34.8	20.3	8.7	0.0	0.0
82.5°	69.5	78.2	84.0	72.4	60.8	46.3	34.8	20.3	8.7	2.9	0.0
85°	14.5	17.4	20.3	23.2	34.8	34.8	26.1	17.4	8.7	2.9	0.0
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	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)