

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: P533833

Luminaire Tested: **GALN-SA9B-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533833
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-SA9B-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA 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: 28696 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

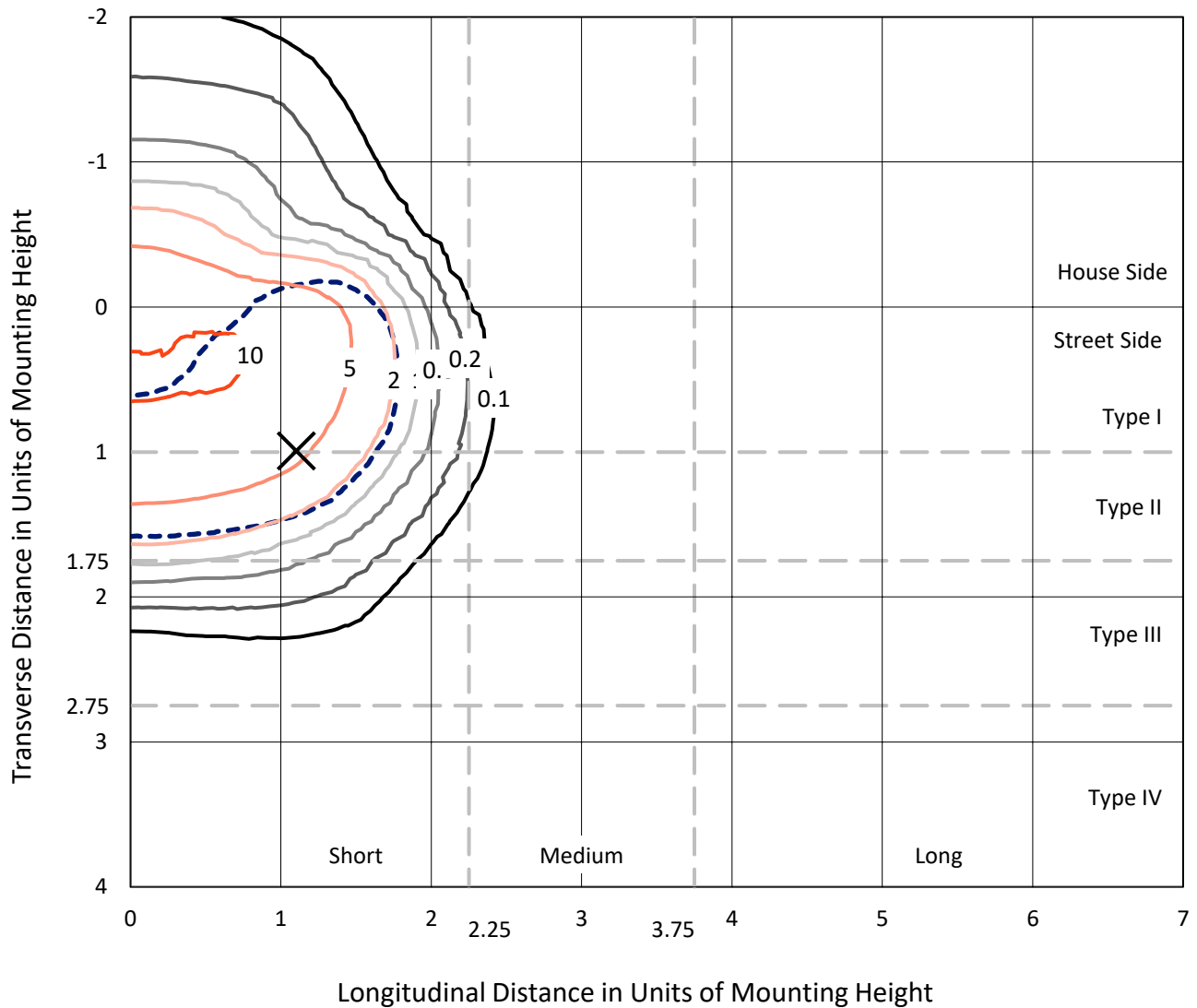
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

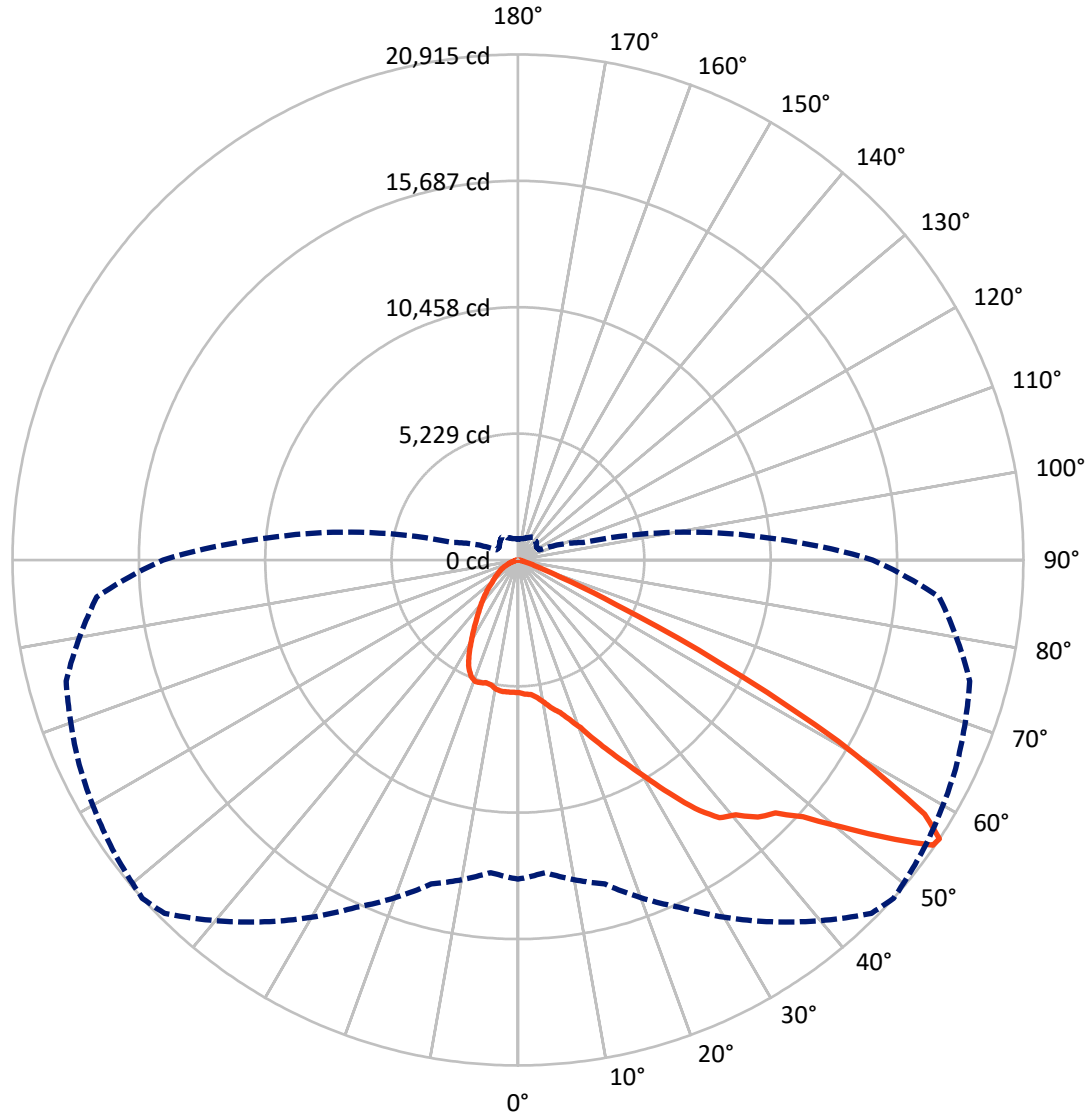
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	6240.8	0.0	6240.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	22455.1	0.0	22455.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	28696.0	0.0	28696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.9	1.9
10°-20°	1706.3	5.9
20°-30°	3094.8	10.8
30°-40°	4861.4	16.9
40°-50°	7091.8	24.7
50°-60°	8544.3	29.8
60°-70°	2501.7	8.7
70°-80°	317.3	1.1
80°-90°	44.5	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°	28696.0	100.0
0°-180°	28696.0	100.0

Coefficient of Utilization

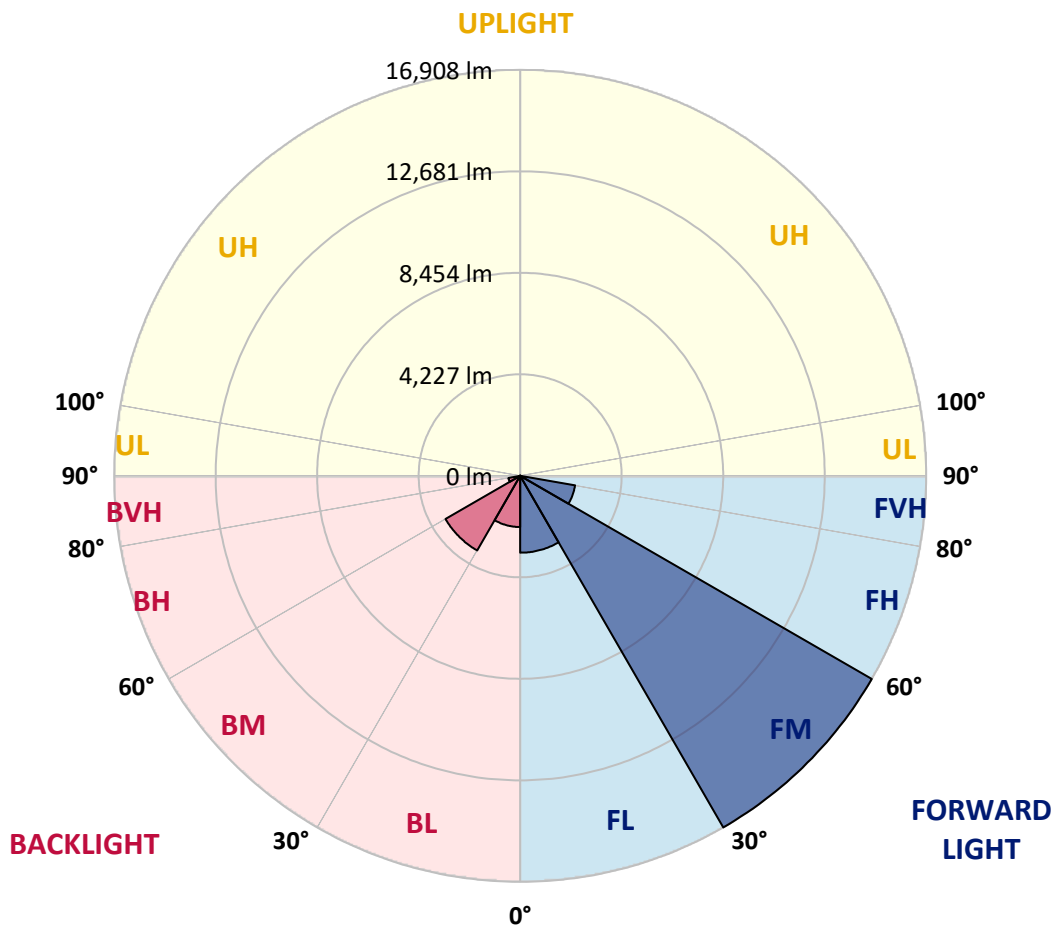


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3201.9	11.2			
FM (30°-60°)	16907.8	58.9			
FH (60°-80°)	2323.2	8.1			G2/5000
FVH (80°-90°)	22.3	0.1			G1/100
BL (0°-30°)	2133.1	7.4	B3/2500		
BM (30°-60°)	3589.7	12.5	B3/5000		
BH (60°-80°)	495.9	1.7	B1/500		G1/500
BVH (80°-90°)	22.2	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9
2.5°	5580.2	5554.1	5554.1	5512.3	5559.3	5538.4	5554.1	5501.8	5554.1	5475.7	5538.4
5°	5606.3	5611.6	5590.7	5616.8	5616.8	5648.1	5595.9	5642.9	5669.0	5611.6	5585.4
7.5°	5742.2	5752.6	5747.4	5726.5	5768.3	5763.1	5757.9	5721.3	5731.7	5710.8	5679.5
10°	6008.7	6003.4	6029.6	5977.3	5946.0	5982.5	5993.0	5935.5	5893.7	5878.0	5778.8
12.5°	6395.3	6332.6	6296.0	6243.8	6259.5	6207.2	6301.3	6202.0	6181.1	6087.0	5987.8
15°	6708.8	6698.4	6703.6	6620.0	6525.9	6546.8	6546.8	6494.6	6463.2	6348.3	6207.2
17.5°	7351.5	7132.0	7179.0	7074.6	6996.2	6991.0	6943.9	6954.4	6870.8	6630.4	6416.2
20°	7853.1	7759.0	7685.9	7508.2	7388.0	7424.6	7403.7	7351.5	7325.3	7011.9	6708.8
22.5°	8302.4	8333.8	8213.6	8166.6	7999.4	8015.0	8056.8	8009.8	7811.3	7487.3	7038.0
25°	8934.6	8898.1	8736.1	8678.6	8521.9	8579.3	8741.3	8704.7	8579.3	7994.1	7294.0
27.5°	9681.8	9556.4	9587.7	9326.5	9175.0	9336.9	9530.3	9713.1	9357.8	8589.8	7597.0
30°	10209.5	10078.9	10068.4	10058.0	10021.4	10209.5	10434.2	10601.4	10314.0	9185.4	8098.6
32.5°	10470.8	10502.1	10590.9	10559.6	10878.3	11264.9	11500.1	11740.4	11379.9	10157.3	8762.2
35°	11165.7	10967.1	11165.7	11186.6	11515.7	12336.1	12633.9	13208.6	13119.8	11531.4	9572.1
37.5°	11573.2	11557.5	11583.7	11782.2	12100.9	13114.6	13537.8	13981.9	13814.7	12357.0	10580.5
40°	12247.2	12289.0	12283.8	12435.3	12785.4	13699.8	13872.2	14232.7	14248.4	13501.2	12064.4
42.5°	13328.8	13161.6	13051.9	13208.6	13699.8	14206.6	14551.4	14478.3	14995.5	14891.0	13971.5
45°	14300.6	14399.9	14237.9	14499.2	14676.8	14948.5	14938.1	15094.8	15753.2	16249.5	15408.3
47.5°	15209.8	15272.5	15350.8	15528.5	15915.1	15956.9	15868.1	15800.2	16709.3	17221.4	16521.2
50°	15753.2	15810.6	16176.4	16495.1	17216.1	17310.2	17362.4	17190.0	17806.6	17864.0	17571.4
52.5°	15606.9	15669.6	16181.6	17231.8	18381.3	19243.4	19086.7	18794.1	18757.5	18982.2	18543.3
55°	14311.1	14253.6	14959.0	16594.4	18747.0	20816.1	20837.0	20528.7	19938.3	19786.8	18397.0
56°	13208.6	12983.9	13882.6	15857.7	18276.8	20680.3	20915.4	20586.2	20032.4	19353.1	17493.1
57.5°	10820.8	11035.0	11928.5	13563.9	16651.8	19703.2	19839.0	19760.7	19342.7	18203.6	15392.6
60°	5966.9	6343.1	7132.0	9133.2	11855.4	15120.9	15230.7	15868.1	15946.5	13940.1	10590.9
62.5°	2534.1	2492.3	3312.6	4786.0	6750.6	9127.9	9331.7	9984.8	10105.0	8035.9	5313.8
65°	1029.3	1086.8	1499.6	2408.7	3568.6	4159.0	4446.4	4660.6	5057.7	3317.8	1959.3
67.5°	679.2	674.0	883.0	1374.2	1922.8	1854.8	1854.8	1959.3	1813.0	1353.3	846.4
70°	485.9	501.6	632.2	950.9	1196.5	888.2	851.7	815.1	924.8	893.5	684.5
72.5°	318.7	339.6	423.2	569.5	621.8	485.9	485.9	585.2	762.8	721.0	559.1
75°	209.0	214.2	261.2	329.2	308.3	250.8	276.9	391.9	553.8	532.9	397.1
77.5°	141.1	146.3	177.6	214.2	172.4	141.1	151.5	198.5	271.7	271.7	209.0
80°	52.2	57.5	73.1	67.9	78.4	99.3	109.7	135.8	162.0	162.0	141.1
82.5°	0.0	5.2	15.7	36.6	57.5	78.4	88.8	104.5	120.2	135.8	130.6
85°	0.0	5.2	15.7	26.1	41.8	47.0	52.2	36.6	31.3	31.3	26.1
87.5°	0.0	0.0	5.2	5.2	5.2	5.2	5.2	5.2	10.4	5.2	5.2
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°	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9	5480.9
2.5°	5480.9	5475.7	5475.7	5460.0	5491.4	5475.7	5486.2	5480.9	5413.0	5465.3	5428.7
5°	5538.4	5575.0	5517.5	5507.1	5465.3	5480.9	5480.9	5428.7	5475.7	5470.5	5460.0
7.5°	5684.7	5622.0	5559.3	5496.6	5486.2	5470.5	5413.0	5392.1	5428.7	5386.9	5449.6
10°	5747.4	5757.9	5663.8	5580.2	5501.8	5392.1	5313.8	5266.7	5209.3	5272.0	5308.5
12.5°	6034.8	5930.3	5768.3	5637.7	5371.2	5261.5	5183.1	5162.2	5261.5	5282.4	5245.8
15°	6134.1	6118.4	5909.4	5616.8	5339.9	5209.3	5224.9	5183.1	5193.6	5141.3	5151.8
17.5°	6337.8	6160.2	5914.6	5548.9	5334.7	5303.3	5209.3	5042.1	4948.0	4906.2	4942.8
20°	6562.5	6390.1	6034.8	5575.0	5381.7	5298.1	4989.8	4786.0	4592.7	4488.2	4493.4
22.5°	6761.1	6546.8	5982.5	5585.4	5423.5	5078.6	4707.7	4305.3	4065.0	3903.0	3908.2
25°	7001.4	6698.4	6003.4	5606.3	5313.8	4728.6	4195.6	3803.7	3516.4	3406.7	3443.2
27.5°	7137.3	6792.4	6118.4	5653.4	5026.4	4232.2	3657.4	3291.7	3124.5	3072.3	3067.0
30°	7544.8	7001.4	6259.5	5559.3	4545.7	3699.2	3166.3	2941.6	2779.7	2732.6	2743.1
32.5°	8150.9	7382.8	6442.3	5313.8	4054.5	3223.8	2847.6	2680.4	2528.9	2440.0	2429.6
35°	8657.7	8035.9	6635.7	4932.3	3485.0	2858.0	2622.9	2413.9	2184.0	2084.7	2058.6
37.5°	9624.3	8772.7	6593.9	4357.6	2941.6	2586.3	2382.6	2126.5	1928.0	1792.1	1776.5
40°	10909.6	9634.8	6390.1	3657.4	2539.3	2346.0	2126.5	1881.0	1635.4	1520.5	1510.0
42.5°	12471.9	10690.2	6019.1	2946.9	2137.0	2105.6	1907.1	1625.0	1405.5	1321.9	1327.1
45°	13741.6	11594.1	5642.9	2366.9	1839.2	1870.5	1698.1	1431.6	1280.1	1212.2	1212.2
47.5°	14870.1	12205.4	5235.4	1954.1	1562.3	1635.4	1483.9	1327.1	1196.5	1144.3	1133.8
50°	15956.9	12827.2	4827.8	1583.2	1332.4	1405.5	1389.8	1264.4	1159.9	1097.2	1102.5
52.5°	16636.2	12926.5	4310.6	1295.8	1165.2	1248.8	1301.0	1186.1	1071.1	1034.5	1024.1
55°	15805.4	11646.4	3344.0	1065.9	987.5	1097.2	1196.5	1065.9	977.1	914.4	909.1
56°	14687.3	10413.3	2795.3	982.3	935.3	1055.4	1159.9	1018.9	919.6	883.0	856.9
57.5°	12435.3	8521.9	2063.8	872.6	867.3	982.3	1102.5	971.8	856.9	825.5	825.5
60°	7753.8	4796.5	1248.8	731.5	752.4	872.6	992.7	867.3	762.8	762.8	778.5
62.5°	3532.1	1995.9	757.6	621.8	647.9	752.4	883.0	783.7	726.3	783.7	794.2
65°	1201.7	862.1	548.6	496.4	512.0	621.8	757.6	794.2	789.0	825.5	846.4
67.5°	674.0	553.8	459.8	412.8	402.3	459.8	621.8	794.2	762.8	747.2	757.6
70°	569.5	470.2	407.5	365.7	350.1	371.0	480.7	600.9	538.2	522.5	512.0
72.5°	459.8	391.9	355.3	329.2	282.1	240.3	219.4	229.9	256.0	271.7	297.8
75°	323.9	297.8	297.8	266.5	203.8	151.5	120.2	99.3	67.9	47.0	52.2
77.5°	182.9	182.9	188.1	162.0	130.6	99.3	73.1	52.2	26.1	10.4	5.2
80°	125.4	135.8	146.3	130.6	109.7	88.8	62.7	36.6	15.7	0.0	0.0
82.5°	125.4	141.1	151.5	130.6	109.7	83.6	62.7	36.6	15.7	5.2	0.0
85°	26.1	31.3	36.6	41.8	62.7	62.7	47.0	31.3	15.7	5.2	0.0
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	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)