

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: P533079

Luminaire Tested: **GALN-SA8C-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533079
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-SA8C-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA 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: 28352 lumens
Efficiency: N/A
Efficacy: 66.1 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

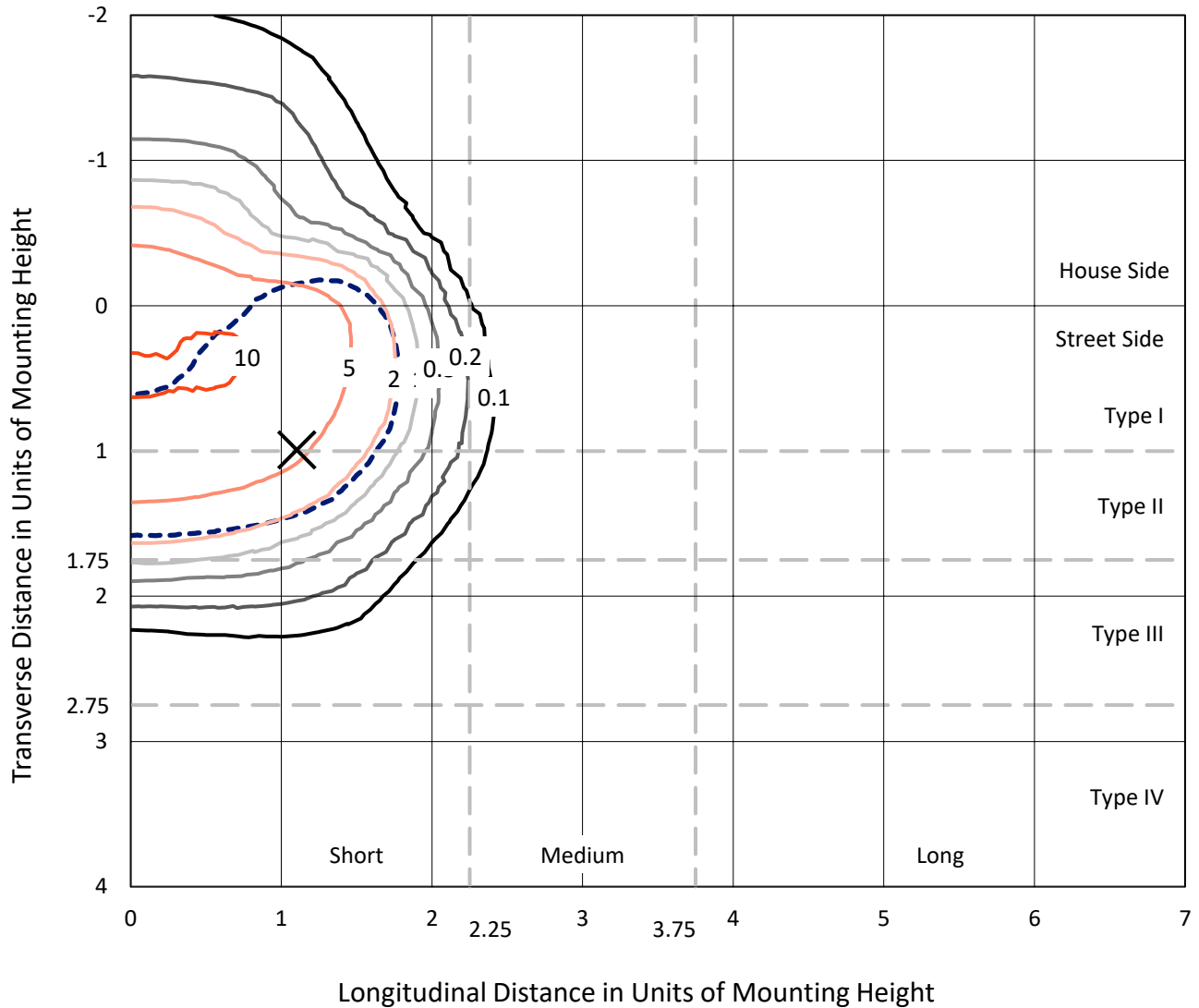
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

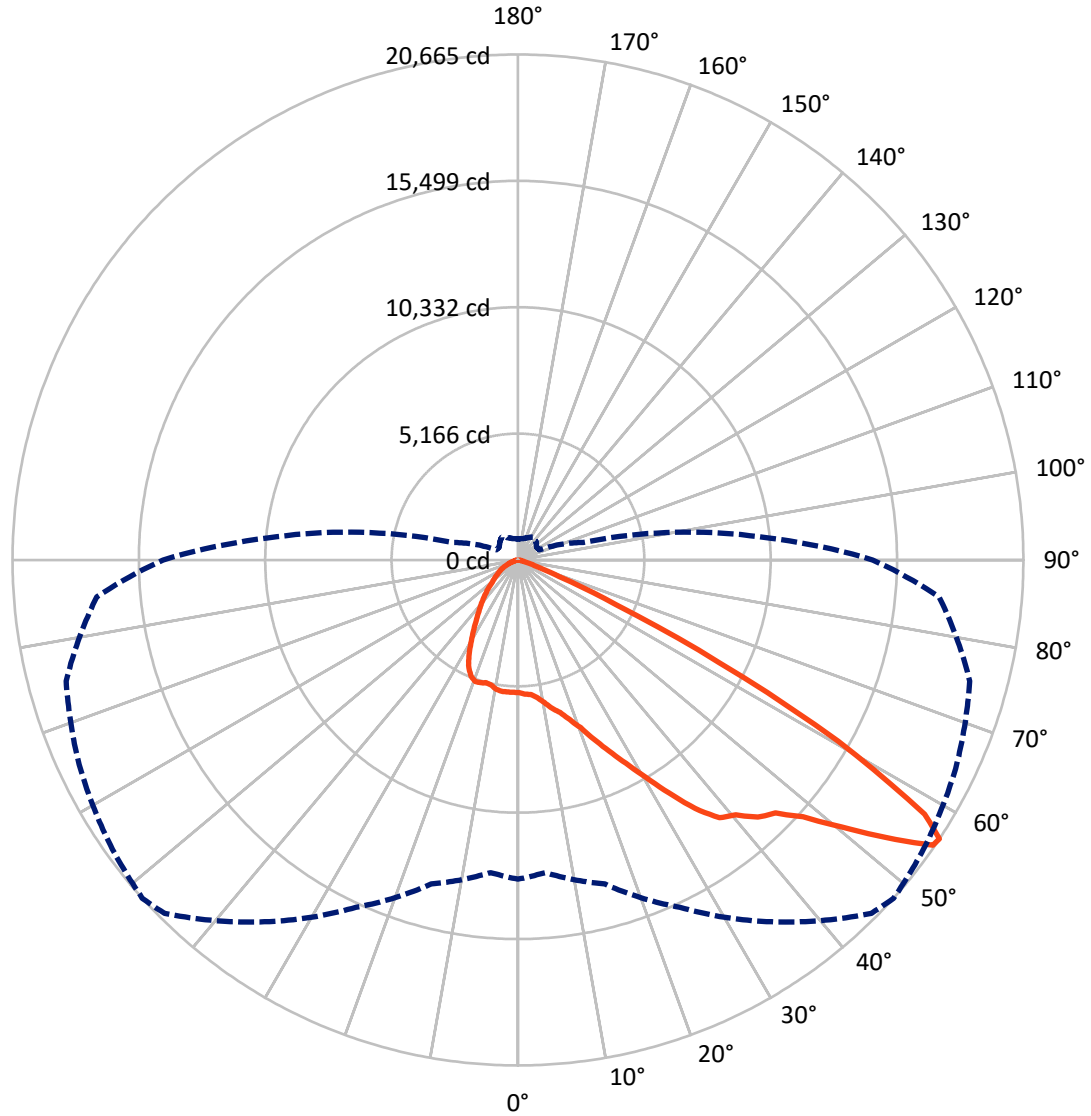
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	6166.0	0.0	6166.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	22186.0	0.0	22186.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	28352.0	0.0	28352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.5	1.9
10°-20°	1685.8	5.9
20°-30°	3057.7	10.8
30°-40°	4803.1	16.9
40°-50°	7006.8	24.7
50°-60°	8441.9	29.8
60°-70°	2471.7	8.7
70°-80°	313.6	1.1
80°-90°	44.0	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°	28352.0	100.0
0°-180°	28352.0	100.0

Coefficient of Utilization

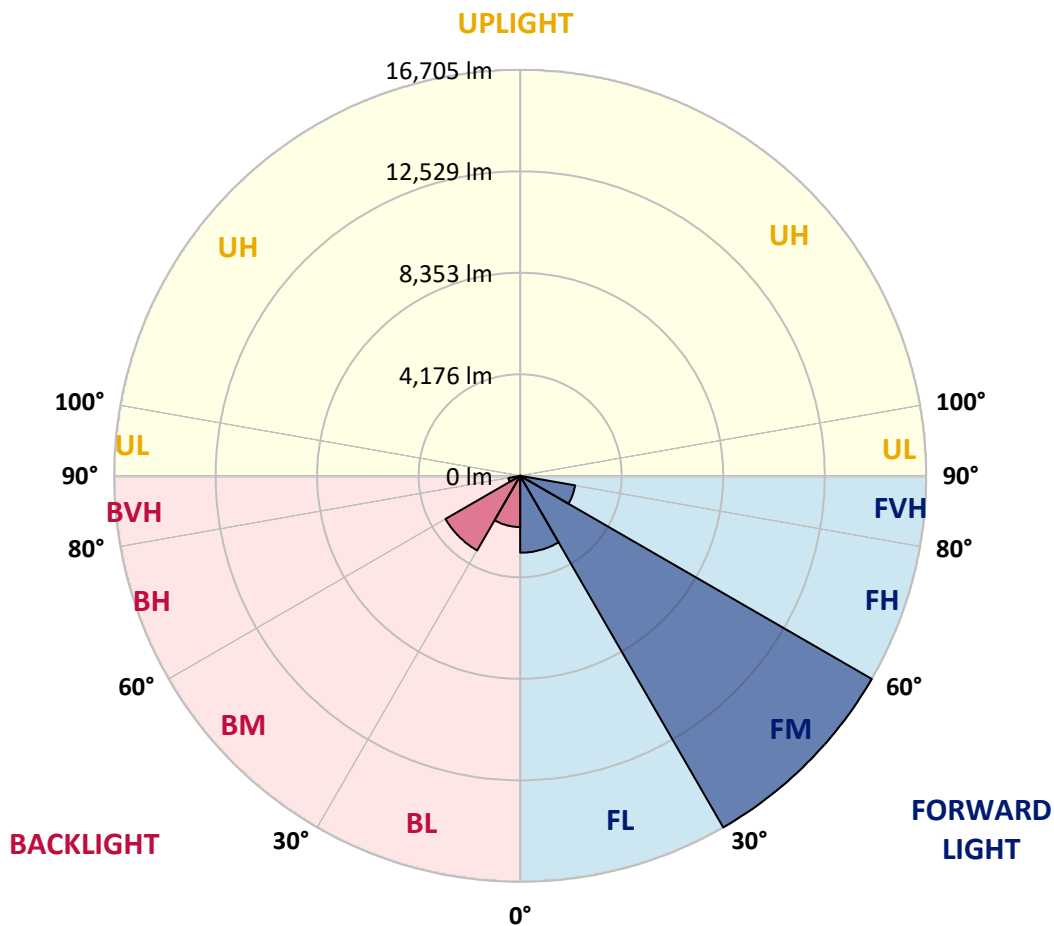


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3163.5	11.2			
FM (30°-60°)	16705.1	58.9			
FH (60°-80°)	2295.3	8.1			G2/5000
FVH (80°-90°)	22.1	0.1			G1/100
BL (0°-30°)	2107.5	7.4	B3/2500		
BM (30°-60°)	3546.7	12.5	B3/5000		
BH (60°-80°)	489.9	1.7	B1/500		G1/500
BVH (80°-90°)	21.9	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°	5415.2	5415.2	5415.2	5415.2	5415.2	5415.2	5415.2	5415.2	5415.2	5415.2	5415.2
2.5°	5513.3	5487.5	5487.5	5446.2	5492.7	5472.0	5487.5	5435.9	5487.5	5410.1	5472.0
5°	5539.1	5544.3	5523.7	5549.5	5549.5	5580.4	5528.8	5575.3	5601.1	5544.3	5518.5
7.5°	5673.4	5683.7	5678.5	5657.9	5699.2	5694.0	5688.8	5652.7	5663.0	5642.4	5611.4
10°	5936.6	5931.5	5957.3	5905.7	5874.7	5910.8	5921.1	5864.4	5823.1	5807.6	5709.5
12.5°	6318.6	6256.7	6220.6	6168.9	6184.4	6132.8	6225.7	6127.6	6107.0	6014.1	5916.0
15°	6628.4	6618.1	6623.2	6540.6	6447.7	6468.4	6468.4	6416.7	6385.8	6272.2	6132.8
17.5°	7263.3	7046.5	7093.0	6989.7	6912.3	6907.1	6860.7	6871.0	6788.4	6550.9	6339.3
20°	7758.9	7666.0	7593.7	7418.2	7299.5	7335.6	7315.0	7263.3	7237.5	6927.8	6628.4
22.5°	8202.9	8233.9	8115.1	8068.7	7903.5	7919.0	7960.3	7913.8	7717.6	7397.6	6953.6
25°	8827.5	8791.4	8631.4	8574.6	8419.7	8476.5	8636.5	8600.4	8476.5	7898.3	7206.6
27.5°	9565.7	9441.8	9472.8	9214.7	9065.0	9225.0	9416.0	9596.7	9245.7	8486.8	7506.0
30°	10087.1	9958.1	9947.7	9937.4	9901.3	10087.1	10309.1	10474.3	10190.4	9075.3	8001.6
32.5°	10345.2	10376.2	10464.0	10433.0	10747.9	11129.9	11362.2	11599.7	11243.5	10035.5	8657.2
35°	11031.8	10835.7	11031.8	11052.5	11377.7	12188.2	12482.4	13050.3	12962.5	11393.2	9457.3
37.5°	11434.5	11419.0	11444.8	11641.0	11955.9	12957.4	13375.5	13814.3	13649.1	12208.8	10453.6
40°	12100.4	12141.7	12136.5	12286.3	12632.1	13535.5	13705.9	14062.1	14077.6	13339.4	11919.7
42.5°	13169.0	13003.8	12895.4	13050.3	13535.5	14036.3	14377.0	14304.7	14815.8	14712.5	13804.0
45°	14129.2	14227.3	14067.2	14325.4	14500.9	14769.3	14759.0	14913.9	15564.3	16054.7	15223.6
47.5°	15027.4	15089.4	15166.8	15342.3	15724.3	15765.6	15677.9	15610.8	16509.0	17014.9	16323.2
50°	15564.3	15621.1	15982.5	16297.4	17009.8	17102.7	17154.3	16983.9	17593.1	17649.9	17360.8
52.5°	15419.8	15481.7	15987.6	17025.2	18160.9	19012.7	18857.9	18568.8	18532.6	18754.6	18321.0
55°	14139.5	14082.7	14779.6	16395.4	18522.3	20566.6	20587.2	20282.6	19699.3	19549.6	18176.4
56°	13050.3	12828.3	13716.2	15667.6	18057.7	20432.4	20664.7	20339.4	19792.2	19121.1	17283.4
57.5°	10691.1	10902.8	11785.5	13401.3	16452.2	19467.0	19601.2	19523.8	19110.8	17985.4	15208.1
60°	5895.3	6267.0	7046.5	9023.7	11713.2	14939.7	15048.1	15677.9	15755.3	13773.0	10464.0
62.5°	2503.7	2462.4	3272.9	4728.7	6669.7	9018.5	9219.9	9865.1	9983.9	7939.6	5250.1
65°	1017.0	1073.8	1481.6	2379.8	3525.8	4109.2	4393.1	4604.8	4997.1	3278.1	1935.9
67.5°	671.1	665.9	872.4	1357.7	1899.7	1832.6	1832.6	1935.9	1791.3	1337.0	836.3
70°	480.1	495.6	624.6	939.5	1182.2	877.6	841.5	805.3	913.7	882.8	676.3
72.5°	314.9	335.5	418.1	562.7	614.3	480.1	480.1	578.2	753.7	712.4	552.4
75°	206.5	211.7	258.1	325.2	304.6	247.8	273.6	387.2	547.2	526.6	392.3
77.5°	139.4	144.5	175.5	211.7	170.4	139.4	149.7	196.2	268.4	268.4	206.5
80°	51.6	56.8	72.3	67.1	77.4	98.1	108.4	134.2	160.0	160.0	139.4
82.5°	0.0	5.2	15.5	36.1	56.8	77.4	87.8	103.2	118.7	134.2	129.1
85°	0.0	5.2	15.5	25.8	41.3	46.5	51.6	36.1	31.0	31.0	25.8
87.5°	0.0	0.0	5.2	5.2	5.2	5.2	5.2	5.2	10.3	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°	5415.2	5415.2	5415.2	5415.2	5415.2	5415.2	5415.2	5415.2	5415.2	5415.2	5415.2
2.5°	5415.2	5410.1	5410.1	5394.6	5425.6	5410.1	5420.4	5415.2	5348.1	5399.8	5363.6
5°	5472.0	5508.2	5451.4	5441.1	5399.8	5415.2	5415.2	5363.6	5410.1	5404.9	5394.6
7.5°	5616.6	5554.6	5492.7	5430.7	5420.4	5404.9	5348.1	5327.5	5363.6	5322.3	5384.3
10°	5678.5	5688.8	5595.9	5513.3	5435.9	5327.5	5250.1	5203.6	5146.8	5208.8	5244.9
12.5°	5962.4	5859.2	5699.2	5570.1	5306.8	5198.4	5121.0	5100.3	5198.4	5219.1	5182.9
15°	6060.5	6045.0	5838.6	5549.5	5275.9	5146.8	5162.3	5121.0	5131.3	5079.7	5090.0
17.5°	6261.9	6086.3	5843.7	5482.4	5270.7	5239.7	5146.8	4981.6	4888.7	4847.4	4883.5
20°	6483.8	6313.5	5962.4	5508.2	5317.2	5234.6	4930.0	4728.7	4537.7	4434.4	4439.6
22.5°	6680.0	6468.4	5910.8	5518.5	5358.5	5017.7	4651.2	4253.7	4016.3	3856.2	3861.4
25°	6917.5	6618.1	5931.5	5539.1	5250.1	4671.9	4145.3	3758.1	3474.2	3365.8	3402.0
27.5°	7051.7	6711.0	6045.0	5585.6	4966.1	4181.5	3613.6	3252.2	3087.1	3035.4	3030.3
30°	7454.3	6917.5	6184.4	5492.7	4491.2	3654.9	3128.3	2906.4	2746.3	2699.9	2710.2
32.5°	8053.2	7294.3	6365.1	5250.1	4005.9	3185.1	2813.4	2648.3	2498.5	2410.8	2400.5
35°	8553.9	7939.6	6556.1	4873.2	3443.2	2823.8	2591.5	2385.0	2157.8	2059.8	2033.9
37.5°	9508.9	8667.5	6514.8	4305.4	2906.4	2555.3	2354.0	2101.1	1904.9	1770.7	1755.2
40°	10778.9	9519.3	6313.5	3613.6	2508.9	2317.9	2101.1	1858.4	1615.8	1502.2	1491.9
42.5°	12322.4	10562.0	5947.0	2911.5	2111.4	2080.4	1884.2	1605.5	1388.7	1306.1	1311.2
45°	13576.8	11455.1	5575.3	2338.5	1817.1	1848.1	1677.7	1414.5	1264.8	1197.7	1197.7
47.5°	14691.9	12059.1	5172.6	1930.7	1543.5	1615.8	1466.1	1311.2	1182.2	1130.5	1120.2
50°	15765.6	12673.4	4770.0	1564.2	1316.4	1388.7	1373.2	1249.3	1146.0	1084.1	1089.2
52.5°	16436.7	12771.5	4258.9	1280.2	1151.2	1233.8	1285.4	1171.8	1058.3	1022.1	1011.8
55°	15615.9	11506.7	3303.9	1053.1	975.7	1084.1	1182.2	1053.1	965.3	903.4	898.2
56°	14511.2	10288.4	2761.8	970.5	924.1	1042.8	1146.0	1006.6	908.6	872.4	846.6
57.5°	12286.3	8419.7	2039.1	862.1	856.9	970.5	1089.2	960.2	846.6	815.6	815.6
60°	7660.8	4739.0	1233.8	722.7	743.4	862.1	980.8	856.9	753.7	753.7	769.2
62.5°	3489.7	1972.0	748.5	614.3	640.1	743.4	872.4	774.3	717.6	774.3	784.7
65°	1187.3	851.8	542.0	490.4	505.9	614.3	748.5	784.7	779.5	815.6	836.3
67.5°	665.9	547.2	454.3	407.8	397.5	454.3	614.3	784.7	753.7	738.2	748.5
70°	562.7	464.6	402.7	361.4	345.9	366.5	474.9	593.7	531.7	516.2	505.9
72.5°	454.3	387.2	351.0	325.2	278.8	237.5	216.8	227.1	253.0	268.4	294.3
75°	320.1	294.3	294.3	263.3	201.3	149.7	118.7	98.1	67.1	46.5	51.6
77.5°	180.7	180.7	185.8	160.0	129.1	98.1	72.3	51.6	25.8	10.3	5.2
80°	123.9	134.2	144.5	129.1	108.4	87.8	61.9	36.1	15.5	0.0	0.0
82.5°	123.9	139.4	149.7	129.1	108.4	82.6	61.9	36.1	15.5	5.2	0.0
85°	25.8	31.0	36.1	41.3	61.9	61.9	46.5	31.0	15.5	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)