

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: P534375

Luminaire Tested: **GALN-SA9D-760-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-760-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41369 lumens
Efficiency: N/A
Efficacy: 74.9 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

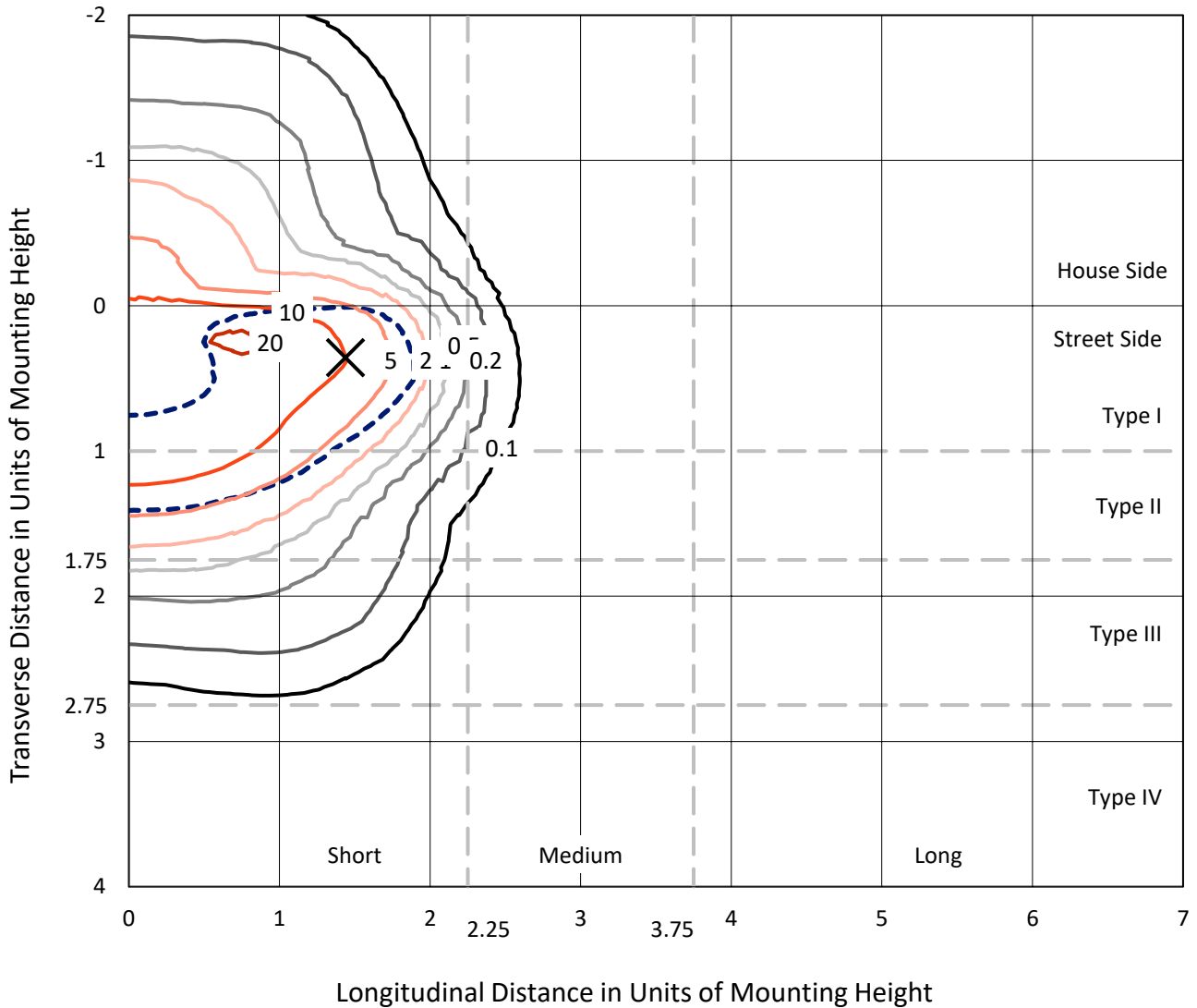
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

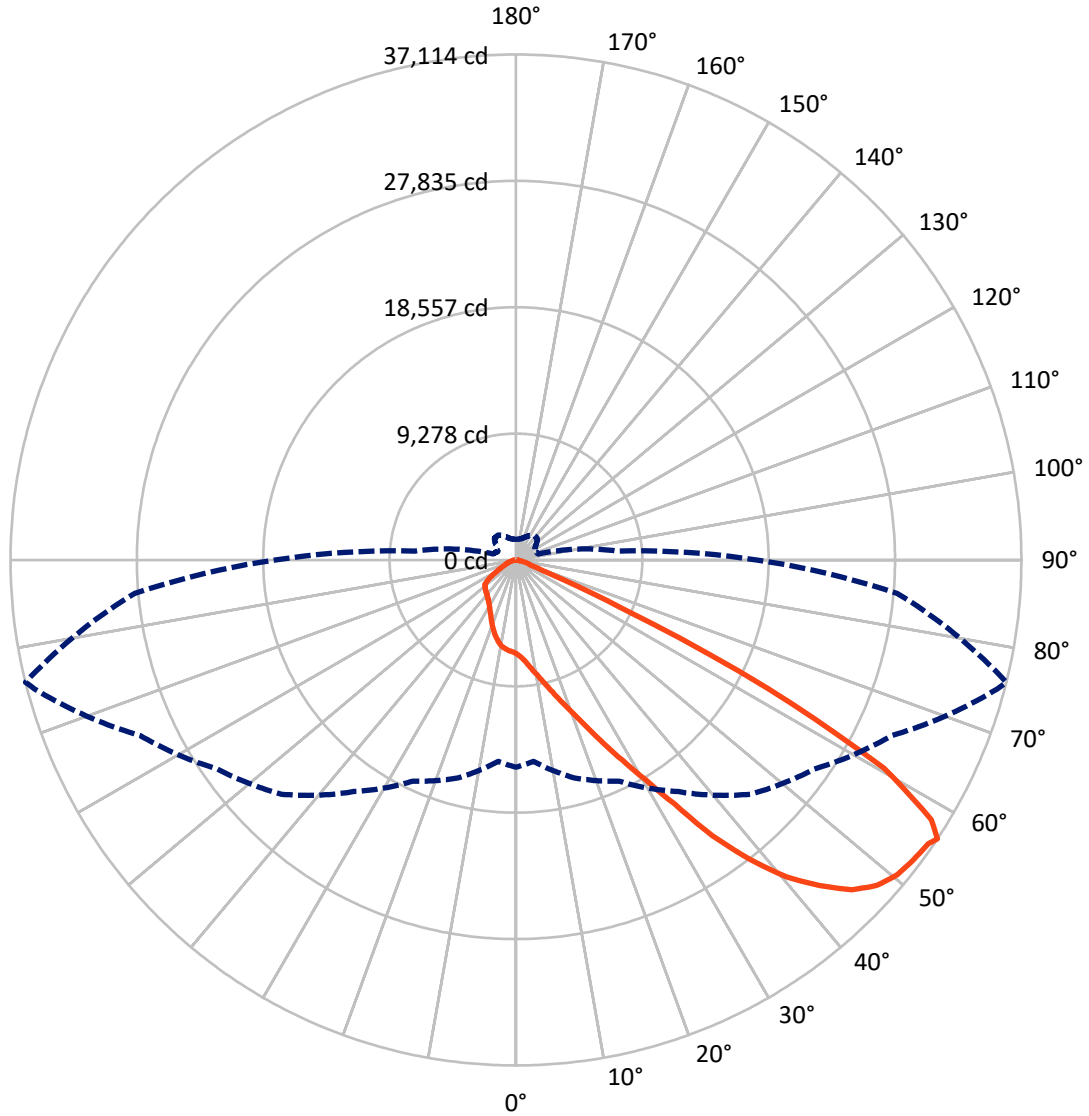
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6498.9	0.0	6498.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	34870.2	0.0	34870.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	41369.0	0.0	41369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	693.7	1.7
10°-20°	2228.5	5.4
20°-30°	4040.8	9.8
30°-40°	6968.6	16.8
40°-50°	11320.7	27.4
50°-60°	11932.4	28.8
60°-70°	3645.9	8.8
70°-80°	467.4	1.1
80°-90°	71.0	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°	41369.0	100.0
0°-180°	41369.0	100.0

Coefficient of Utilization

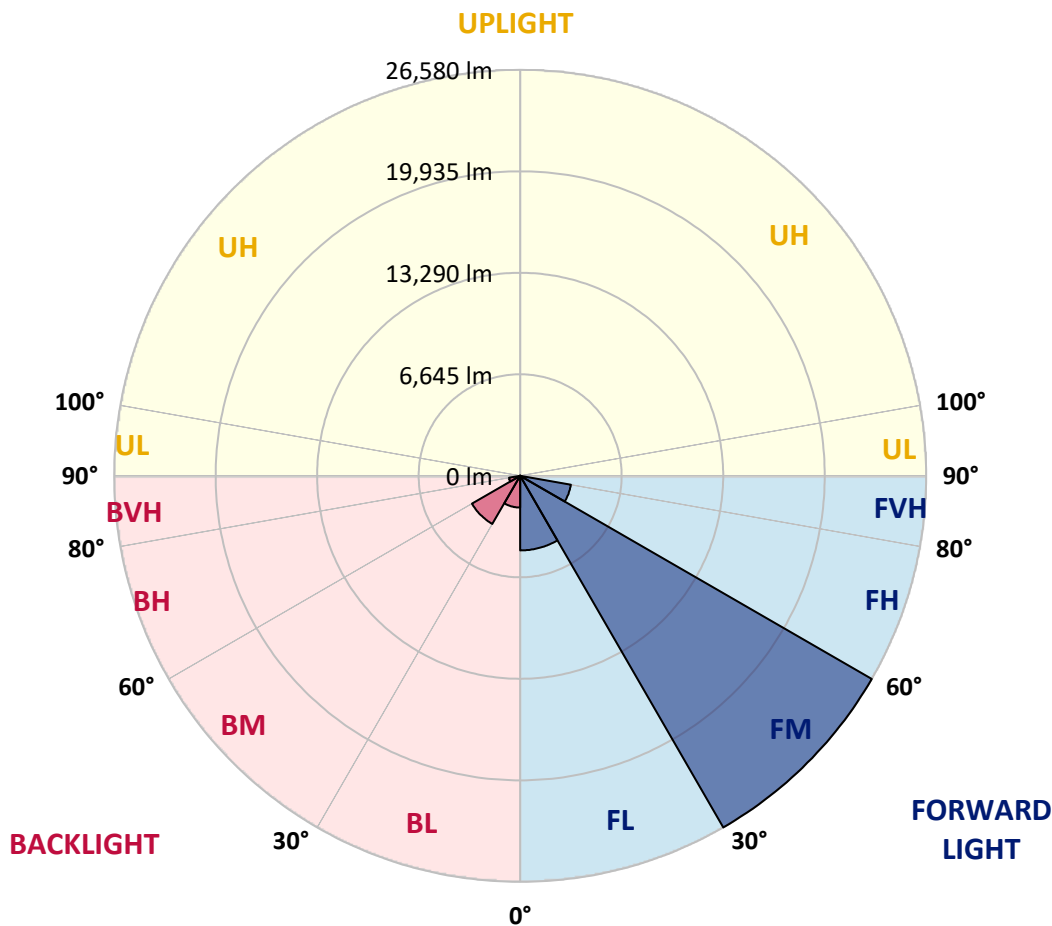


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4884.0	11.8			
FM (30°-60°)	26579.5	64.2			
FH (60°-80°)	3371.8	8.2			G2/5000
FVH (80°-90°)	34.8	0.1			G1/100
BL (0°-30°)	2079.0	5.0	B3/2500		
BM (30°-60°)	3642.2	8.8	B3/5000		
BH (60°-80°)	741.4	1.8	B2/1000		G2/1000
BVH (80°-90°)	36.2	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°	55°	65°	75°	76°	85°
0°	6885.9	6885.9	6885.9	6885.9	6885.9	6885.9	6885.9	6885.9	6885.9	6885.9	6885.9
2.5°	7930.6	7747.6	7755.3	7740.0	7717.1	7633.2	7381.6	7343.5	7175.7	7130.0	6977.4
5°	8883.8	8723.7	8815.2	8678.0	8548.3	8472.1	8060.3	7869.6	7602.7	7503.6	7290.1
7.5°	9478.6	9402.4	9371.9	9379.5	9257.5	9066.9	8883.8	8464.4	8106.0	8029.8	7579.9
10°	9768.4	9722.7	9768.4	9745.5	9798.9	9821.8	9501.5	9249.9	8723.7	8594.1	7892.5
12.5°	9837.0	9928.6	9966.7	10065.8	10195.5	10416.6	10393.7	10050.6	9349.0	9265.1	8372.9
15°	10004.8	10081.1	10042.9	10203.1	10447.1	10820.8	11019.0	10965.6	10210.7	10058.2	8929.6
17.5°	10157.3	10020.1	10149.7	10470.0	10714.0	11285.9	11766.3	11987.5	11148.7	10973.3	9440.5
20°	10363.2	10325.1	10302.2	10462.3	10897.0	11659.6	12612.8	13016.9	12201.0	12018.0	10172.6
22.5°	10988.5	10996.1	10980.9	10744.5	11057.1	11918.8	13352.5	14351.4	13459.2	13306.7	11003.8
25°	11812.1	11712.9	11636.7	11446.1	11407.9	12155.2	14099.8	15983.3	14969.1	14862.3	11903.6
27.5°	12681.4	12681.4	12452.6	12277.2	12033.2	12742.4	14786.1	17569.4	16791.6	16646.7	12689.0
30°	13627.0	13680.4	13649.9	13276.2	13123.7	13383.0	15487.6	19597.8	18881.0	18698.0	13985.4
32.5°	15022.5	14908.1	15037.7	14725.1	14275.2	14503.9	16593.3	21412.7	21595.7	21336.5	15685.9
35°	16867.9	16799.2	16715.4	16204.4	15670.6	15853.7	18156.6	23647.0	25004.4	24874.8	17401.7
37.5°	18522.6	18484.5	18415.9	18065.1	17447.4	17668.6	19933.4	25972.9	28329.2	27902.1	19826.6
40°	20261.3	20467.2	20246.0	19933.4	19369.1	19857.1	22022.8	27353.1	31127.8	30609.2	21679.6
42.5°	22617.6	22457.4	22556.6	21984.7	21679.6	22213.4	24119.8	28733.3	33301.1	32683.4	23647.0
45°	25126.4	25134.0	24867.1	24684.1	23891.1	24470.6	25408.6	29495.9	35032.1	34551.7	25134.0
47.5°	26735.4	26727.8	27017.6	27307.3	26491.4	25919.5	26285.5	30220.3	35924.3	35703.1	25675.5
50°	26483.8	26560.0	26933.7	28016.5	28443.6	27673.4	27109.1	30006.8	36328.4	36305.6	26140.6
52.5°	23037.0	23288.6	23913.9	25477.2	27627.6	28580.8	27970.8	30403.3	36526.7	36564.8	26834.5
55°	17538.9	17676.2	18865.8	20764.6	23143.7	26407.5	27627.6	30716.0	36679.2	36747.8	27673.4
56°	15213.1	14847.1	16562.8	17912.6	20756.9	24325.7	26758.3	30472.0	36587.7	37113.9	28092.8
57.5°	11484.2	11240.2	12628.0	14313.3	17050.9	20817.9	24058.8	29320.5	35970.0	35962.4	27490.3
60°	6985.1	6741.0	7808.6	8800.0	10332.7	12818.7	16257.8	23349.6	30411.0	31051.5	22259.2
62.5°	4156.0	4308.5	5360.8	5963.2	6458.9	6718.2	8411.1	13878.6	20291.8	20749.3	13810.0
65°	2768.1	2821.5	3614.5	4605.9	4827.0	3843.3	3423.9	5620.1	8800.0	8517.8	5696.3
67.5°	1708.1	1830.1	2424.9	3462.0	3835.7	2806.2	1624.3	2097.0	2424.9	2424.9	1647.1
70°	1037.1	1098.1	1616.6	2356.3	2630.8	1807.3	1182.0	1182.0	1166.7	1143.8	983.7
72.5°	495.7	533.8	823.6	1212.5	1235.3	953.2	915.1	999.0	976.1	968.5	815.9
75°	213.5	228.8	289.8	381.3	434.7	404.2	556.7	716.8	739.7	716.8	587.2
77.5°	68.6	76.3	106.8	137.3	144.9	175.4	236.4	297.4	343.2	320.3	289.8
80°	7.6	15.3	30.5	68.6	106.8	137.3	175.4	198.3	221.1	221.1	205.9
82.5°	7.6	7.6	30.5	61.0	99.1	129.6	167.8	190.6	221.1	228.8	213.5
85°	0.0	7.6	22.9	53.4	83.9	83.9	76.3	76.3	53.4	53.4	53.4
87.5°	0.0	0.0	7.6	7.6	7.6	15.3	15.3	15.3	15.3	15.3	15.3
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°	6885.9	6885.9	6885.9	6885.9	6885.9	6885.9	6885.9	6885.9	6885.9	6885.9	6885.9
2.5°	6946.9	6931.7	6725.8	6596.2	6527.5	6390.3	6306.4	6245.4	6199.6	6146.2	6153.9
5°	7038.4	6985.1	6641.9	6405.5	6123.4	5970.9	5841.2	5734.5	5665.8	5650.6	5620.1
7.5°	7297.7	7015.6	6497.0	6070.0	5711.6	5559.1	5444.7	5376.1	5406.6	5337.9	5391.3
10°	7496.0	7076.6	6321.6	5704.0	5345.6	5231.2	5170.2	5223.5	5299.8	5269.3	5231.2
12.5°	7740.0	7137.6	6039.5	5353.2	5017.7	4933.8	5040.5	5139.7	5292.2	5353.2	5276.9
15°	8014.5	7206.2	5681.1	4949.0	4735.5	4804.1	4987.2	5162.5	5315.1	5391.3	5437.1
17.5°	8350.1	7183.3	5330.3	4628.7	4468.6	4666.9	4888.0	5048.2	5276.9	5391.3	5360.8
20°	8662.7	7107.1	4941.4	4308.5	4316.1	4499.1	4682.1	4941.4	5063.4	5215.9	5162.5
22.5°	8960.1	6969.8	4537.2	4087.3	4087.3	4369.5	4461.0	4628.7	4735.5	4811.8	4804.1
25°	9379.5	6710.5	4201.7	3873.8	3965.3	4148.3	4224.6	4278.0	4232.2	4293.2	4300.8
27.5°	9676.9	6443.6	3927.2	3683.2	3850.9	3988.2	3965.3	3934.8	3828.1	3744.2	3797.6
30°	9997.2	6131.0	3690.8	3553.5	3645.0	3767.1	3675.5	3584.0	3416.3	3279.0	3286.6
32.5°	10454.7	5986.1	3484.9	3401.0	3523.0	3538.3	3439.2	3301.9	3134.1	3004.5	2996.9
35°	11308.8	5894.6	3309.5	3301.9	3324.8	3332.4	3233.3	3065.5	2996.9	2890.1	2928.2
37.5°	12162.9	5848.8	3187.5	3157.0	3149.4	3157.0	3042.6	2882.5	3012.1	3004.5	3019.7
40°	13253.3	6054.7	3012.1	2974.0	2981.6	2981.6	2836.7	2791.0	3019.7	3042.6	3050.2
42.5°	14359.0	6314.0	2897.7	2775.7	2806.2	2806.2	2730.0	2676.6	2836.7	2684.2	2661.3
45°	15319.9	6695.3	2775.7	2577.5	2653.7	2691.8	2669.0	2577.5	2478.3	2219.1	2219.1
47.5°	15632.5	7030.8	2630.8	2386.8	2447.8	2615.6	2547.0	2356.3	2180.9	1967.4	1952.2
50°	16181.6	7396.8	2516.5	2165.7	2295.3	2501.2	2432.6	2241.9	2043.7	1891.2	1898.8
52.5°	16745.9	7816.3	2302.9	1906.4	2066.5	2409.7	2409.7	2196.2	1891.2	1784.4	1769.1
55°	17592.3	7801.0	1921.7	1563.3	1845.4	2272.4	2310.6	1967.4	1692.9	1609.0	1609.0
56°	17714.3	7450.2	1731.0	1464.1	1746.3	2234.3	2241.9	1906.4	1616.6	1525.1	1525.1
57.5°	16799.2	6725.8	1517.5	1342.1	1624.3	2165.7	2173.3	1853.0	1555.6	1426.0	1410.7
60°	12925.4	4552.5	1265.9	1197.2	1471.7	1952.2	1990.3	1685.3	1365.0	1265.9	1258.2
62.5°	7297.7	2524.1	1113.3	1082.8	1265.9	1662.4	1776.8	1471.7	1159.1	1105.7	1121.0
65°	3332.4	1387.9	938.0	876.9	1021.8	1281.1	1433.6	1212.5	953.2	892.2	892.2
67.5°	1220.1	945.6	800.7	693.9	716.8	831.2	930.3	785.4	632.9	541.4	564.3
70°	869.3	793.1	701.6	602.4	556.7	541.4	533.8	442.3	312.7	244.0	259.3
72.5°	701.6	655.8	587.2	510.9	434.7	366.0	312.7	228.8	144.9	99.1	91.5
75°	503.3	480.4	427.0	366.0	305.0	259.3	213.5	144.9	76.3	38.1	38.1
77.5°	259.3	259.3	251.6	228.8	190.6	152.5	122.0	83.9	45.8	15.3	15.3
80°	198.3	213.5	221.1	198.3	175.4	137.3	99.1	61.0	30.5	7.6	7.6
82.5°	190.6	221.1	236.4	205.9	175.4	129.6	99.1	61.0	30.5	7.6	7.6
85°	45.8	45.8	68.6	76.3	99.1	106.8	83.9	53.4	22.9	7.6	7.6
87.5°	15.3	15.3	15.3	15.3	15.3	15.3	7.6	7.6	7.6	7.6	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)