

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: P533235

Luminaire Tested: **GALN-SA8C-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533235
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-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 24922 lumens
Efficiency: N/A
Efficacy: 58.1 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

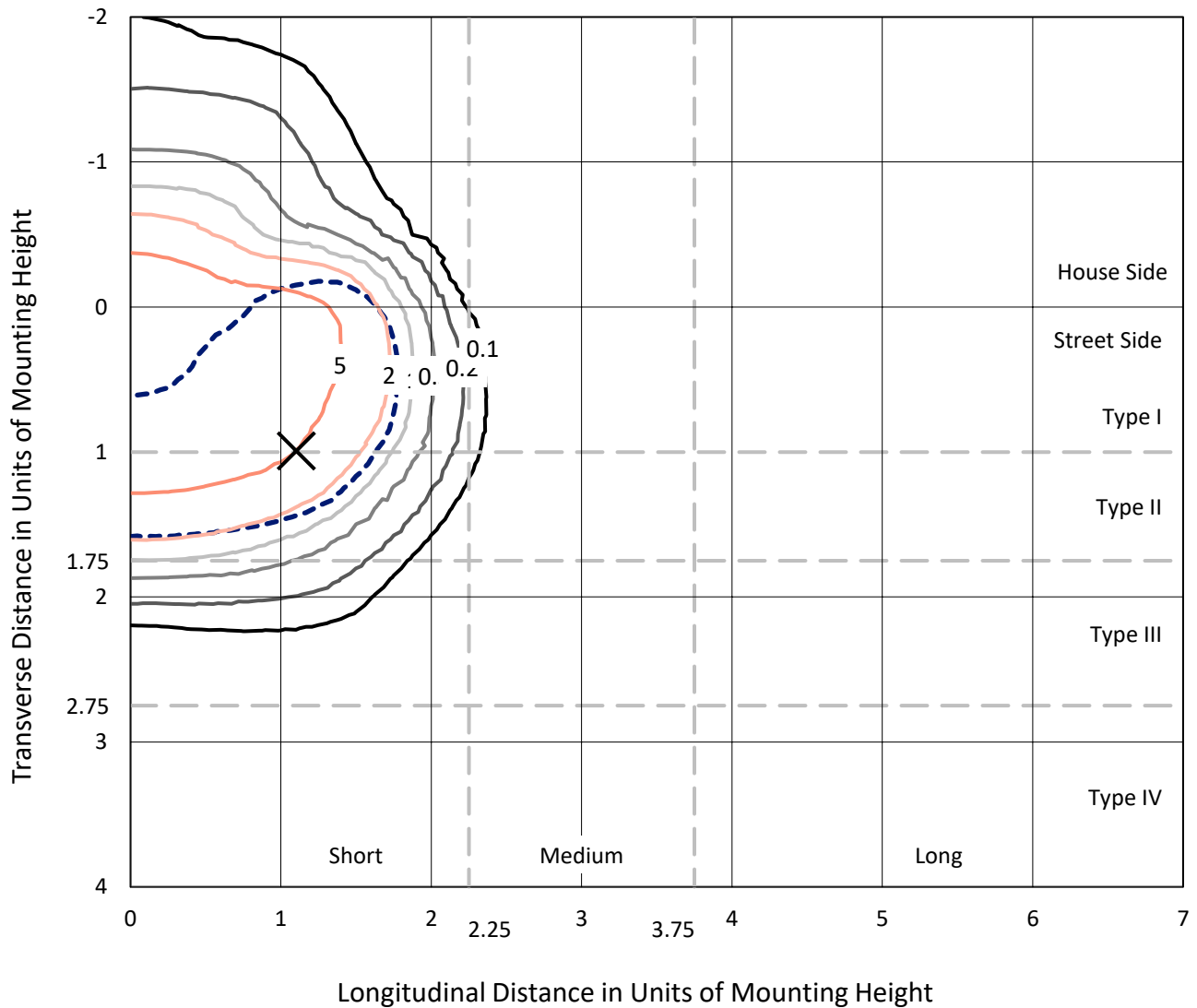
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

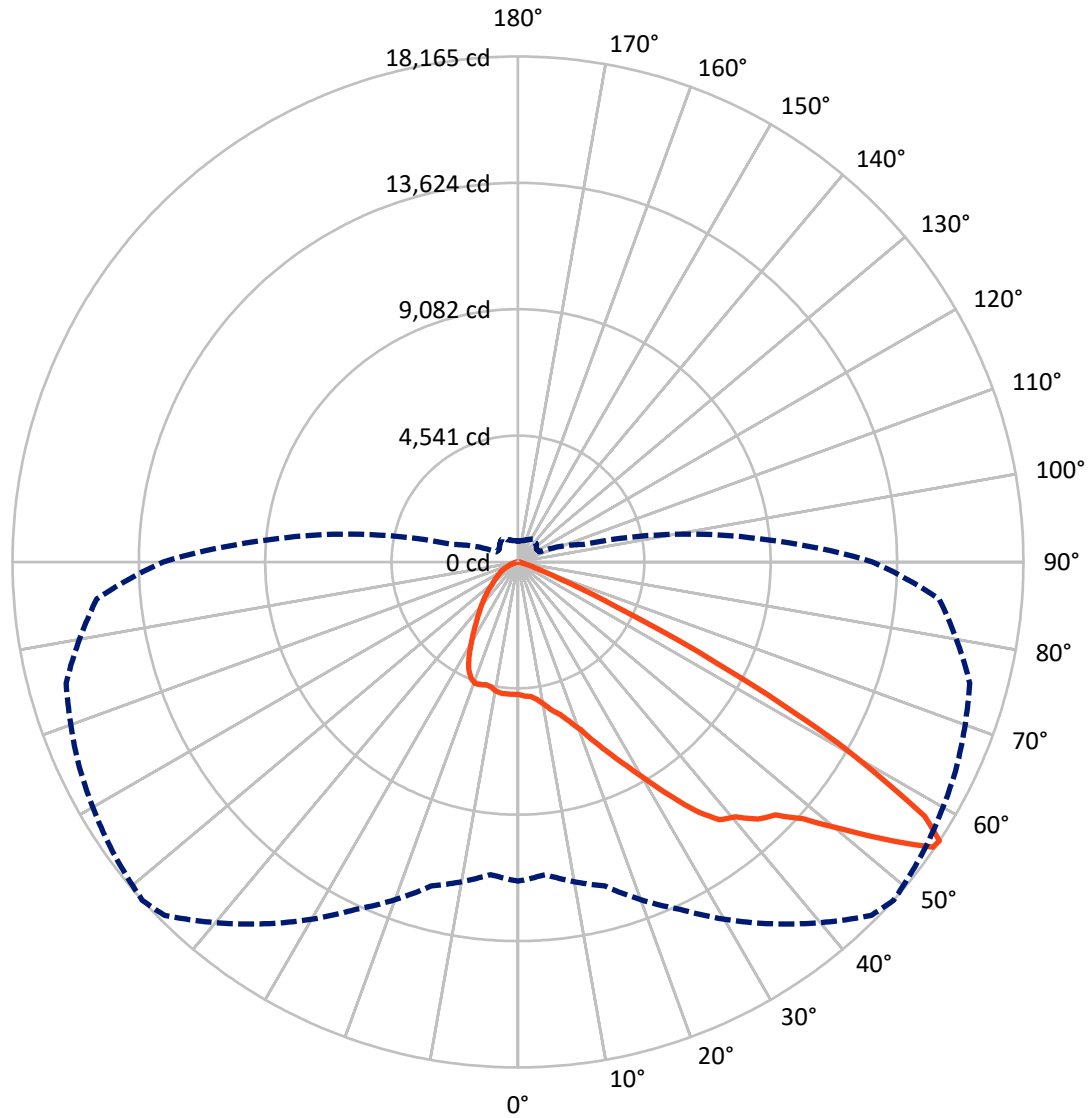
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	5420.1	0.0	5420.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	19501.9	0.0	19501.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	24922.0	0.0	24922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.7	1.9
10°-20°	1481.9	5.9
20°-30°	2687.8	10.8
30°-40°	4222.0	16.9
40°-50°	6159.1	24.7
50°-60°	7420.6	29.8
60°-70°	2172.7	8.7
70°-80°	275.6	1.1
80°-90°	38.6	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°	24922.0	100.0
0°-180°	24922.0	100.0

Coefficient of Utilization

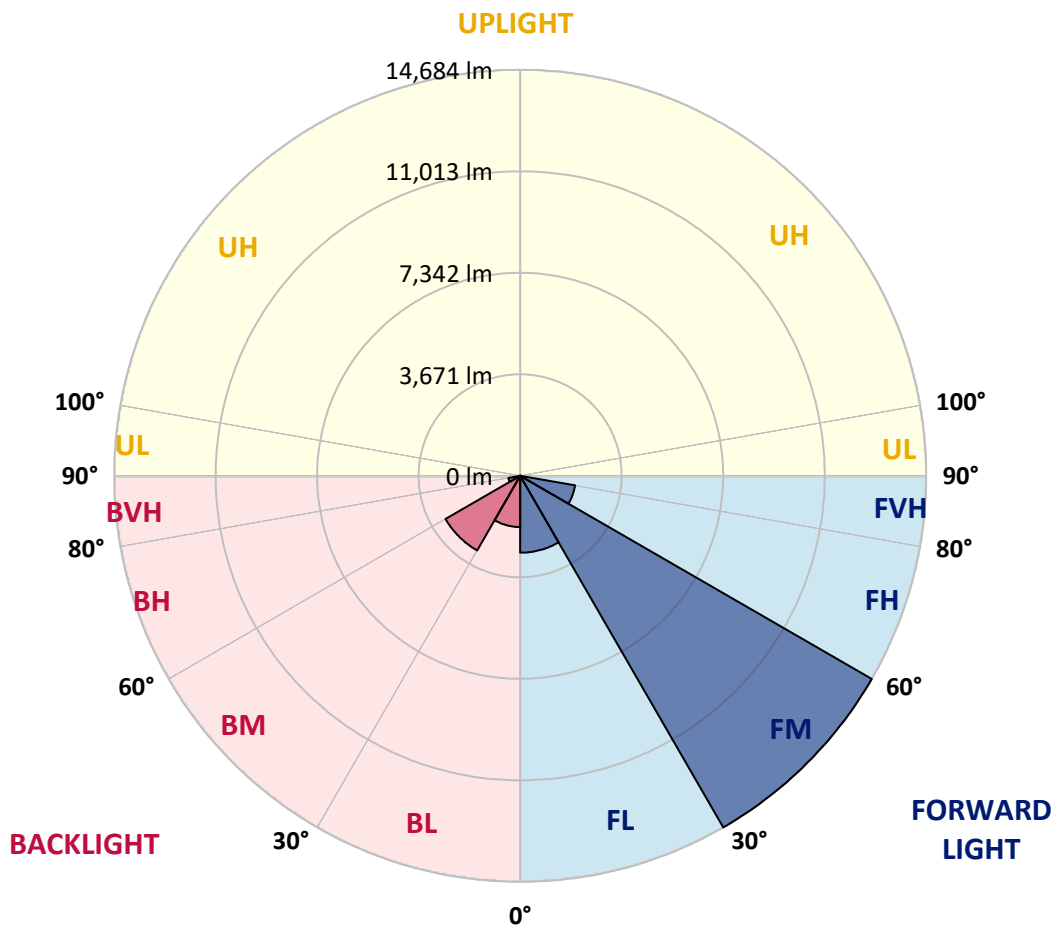


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2780.8	11.2			
FM (30°-60°)	14684.1	58.9			
FH (60°-80°)	2017.6	8.1			G2/5000
FVH (80°-90°)	19.4	0.1			G1/100
BL (0°-30°)	1852.6	7.4	B3/2500		
BM (30°-60°)	3117.6	12.5	B3/5000		
BH (60°-80°)	430.7	1.7	B1/500		G1/500
BVH (80°-90°)	19.2	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°	4760.1	4760.1	4760.1	4760.1	4760.1	4760.1	4760.1	4760.1	4760.1	4760.1	4760.1
2.5°	4846.3	4823.6	4823.6	4787.3	4828.2	4810.0	4823.6	4778.3	4823.6	4755.6	4810.0
5°	4869.0	4873.6	4855.4	4878.1	4878.1	4905.3	4859.9	4900.8	4923.5	4873.6	4850.9
7.5°	4987.0	4996.1	4991.5	4973.4	5009.7	5005.2	5000.6	4968.8	4977.9	4959.8	4932.5
10°	5218.4	5213.9	5236.6	5191.2	5164.0	5195.7	5204.8	5154.9	5118.6	5105.0	5018.8
12.5°	5554.2	5499.8	5468.0	5422.6	5436.2	5390.9	5472.5	5386.3	5368.2	5286.5	5200.3
15°	5826.5	5817.4	5821.9	5749.3	5667.7	5685.8	5685.8	5640.4	5613.2	5513.4	5390.9
17.5°	6384.6	6194.0	6234.9	6144.1	6076.1	6071.5	6030.7	6039.8	5967.2	5758.4	5572.4
20°	6820.3	6738.6	6675.0	6520.8	6416.4	6448.2	6430.0	6384.6	6361.9	6089.7	5826.5
22.5°	7210.5	7237.7	7133.4	7092.5	6947.3	6960.9	6997.2	6956.4	6784.0	6502.6	6112.4
25°	7759.6	7727.8	7587.1	7537.2	7401.1	7451.0	7591.7	7559.9	7451.0	6942.8	6334.7
27.5°	8408.5	8299.6	8326.8	8099.9	7968.3	8109.0	8276.9	8435.7	8127.1	7460.1	6597.9
30°	8866.8	8753.3	8744.3	8735.2	8703.4	8866.8	9061.9	9207.1	8957.5	7977.4	7033.5
32.5°	9093.7	9120.9	9198.0	9170.8	9447.6	9783.4	9987.6	10196.4	9883.2	8821.4	7609.8
35°	9697.2	9524.8	9697.2	9715.3	10001.2	10713.7	10972.3	11471.5	11394.3	10014.8	8313.2
37.5°	10051.1	10037.5	10060.2	10232.7	10509.5	11389.8	11757.3	12143.1	11997.8	10731.8	9189.0
40°	10636.5	10672.8	10668.3	10799.9	11103.9	11898.0	12047.8	12360.9	12374.5	11725.6	10477.7
42.5°	11575.8	11430.6	11335.3	11471.5	11898.0	12338.2	12637.7	12574.1	13023.4	12932.6	12134.0
45°	12419.9	12506.1	12365.4	12592.3	12746.6	12982.5	12973.5	13109.6	13681.4	14112.4	13381.9
47.5°	13209.4	13263.9	13331.9	13486.2	13822.0	13858.3	13781.2	13722.2	14511.8	14956.5	14348.4
50°	13681.4	13731.3	14048.9	14325.7	14951.9	15033.6	15079.0	14929.2	15464.7	15514.6	15260.5
52.5°	13554.3	13608.7	14053.5	14965.5	15963.8	16712.6	16576.4	16322.3	16290.6	16485.7	16104.5
55°	12428.9	12379.0	12991.6	14411.9	16281.5	18078.4	18096.6	17828.9	17316.1	17184.5	15977.5
56°	11471.5	11276.3	12056.8	13772.1	15873.1	17960.5	18164.7	17878.8	17397.8	16807.9	15192.4
57.5°	9397.7	9583.8	10359.7	11780.0	14461.8	17111.9	17229.9	17161.8	16798.8	15809.6	13368.2
60°	5182.1	5508.8	6194.0	7932.0	10296.2	13132.3	13227.6	13781.2	13849.3	12106.8	9198.0
62.5°	2200.8	2164.5	2876.9	4156.6	5862.8	7927.5	8104.4	8671.7	8776.0	6979.1	4614.9
65°	893.9	943.9	1302.3	2091.9	3099.3	3612.1	3861.6	4047.7	4392.6	2881.5	1701.7
67.5°	589.9	585.4	766.9	1193.4	1669.9	1610.9	1610.9	1701.7	1574.6	1175.3	735.1
70°	422.0	435.6	549.1	825.9	1039.1	771.4	739.7	707.9	803.2	776.0	594.4
72.5°	276.8	295.0	367.6	494.6	540.0	422.0	422.0	508.2	662.5	626.2	485.5
75°	181.5	186.0	226.9	285.9	267.7	217.8	240.5	340.3	481.0	462.9	344.9
77.5°	122.5	127.1	154.3	186.0	149.7	122.5	131.6	172.4	236.0	236.0	181.5
80°	45.4	49.9	63.5	59.0	68.1	86.2	95.3	118.0	140.7	140.7	122.5
82.5°	0.0	4.5	13.6	31.8	49.9	68.1	77.1	90.8	104.4	118.0	113.4
85°	0.0	4.5	13.6	22.7	36.3	40.8	45.4	31.8	27.2	27.2	22.7
87.5°	0.0	0.0	4.5	4.5	4.5	4.5	4.5	4.5	9.1	4.5	4.5
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°	4760.1	4760.1	4760.1	4760.1	4760.1	4760.1	4760.1	4760.1	4760.1	4760.1	4760.1
2.5°	4760.1	4755.6	4755.6	4742.0	4769.2	4755.6	4764.7	4760.1	4701.1	4746.5	4714.7
5°	4810.0	4841.8	4791.9	4782.8	4746.5	4760.1	4760.1	4714.7	4755.6	4751.0	4742.0
7.5°	4937.1	4882.6	4828.2	4773.7	4764.7	4751.0	4701.1	4683.0	4714.7	4678.4	4732.9
10°	4991.5	5000.6	4918.9	4846.3	4778.3	4683.0	4614.9	4574.1	4524.1	4578.6	4610.4
12.5°	5241.1	5150.4	5009.7	4896.2	4664.8	4569.5	4501.5	4483.3	4569.5	4587.7	4555.9
15°	5327.3	5313.7	5132.2	4878.1	4637.6	4524.1	4537.8	4501.5	4510.5	4465.2	4474.2
17.5°	5504.3	5350.0	5136.7	4819.1	4633.1	4605.8	4524.1	4378.9	4297.3	4261.0	4292.7
20°	5699.4	5549.7	5241.1	4841.8	4673.9	4601.3	4333.6	4156.6	3988.7	3897.9	3902.5
22.5°	5871.9	5685.8	5195.7	4850.9	4710.2	4410.7	4088.5	3739.1	3530.4	3389.7	3394.2
25°	6080.6	5817.4	5213.9	4869.0	4614.9	4106.7	3643.8	3303.5	3053.9	2958.6	2990.4
27.5°	6198.6	5899.1	5313.7	4909.9	4365.3	3675.6	3176.4	2858.8	2713.6	2668.2	2663.7
30°	6552.5	6080.6	5436.2	4828.2	3947.9	3212.7	2749.9	2554.8	2414.1	2373.2	2382.3
32.5°	7078.9	6411.9	5595.1	4614.9	3521.3	2799.8	2473.1	2327.9	2196.3	2119.1	2110.1
35°	7519.1	6979.1	5763.0	4283.6	3026.7	2482.2	2278.0	2096.4	1896.8	1810.6	1787.9
37.5°	8358.6	7618.9	5726.7	3784.5	2554.8	2246.2	2069.2	1846.9	1674.4	1556.5	1542.8
40°	9474.8	8367.6	5549.7	3176.4	2205.4	2037.5	1846.9	1633.6	1420.3	1320.5	1311.4
42.5°	10831.6	9284.3	5227.5	2559.3	1855.9	1828.7	1656.3	1411.2	1220.7	1148.1	1152.6
45°	11934.3	10069.3	4900.8	2055.6	1597.3	1624.5	1474.8	1243.3	1111.8	1052.8	1052.8
47.5°	12914.5	10600.2	4546.8	1697.1	1356.8	1420.3	1288.7	1152.6	1039.1	993.8	984.7
50°	13858.3	11140.2	4192.9	1374.9	1157.1	1220.7	1207.0	1098.1	1007.4	952.9	957.5
52.5°	14448.2	11226.4	3743.7	1125.4	1011.9	1084.5	1129.9	1030.1	930.2	898.5	889.4
55°	13726.7	10114.7	2904.2	925.7	857.6	952.9	1039.1	925.7	848.6	794.1	789.6
56°	12755.7	9043.8	2427.7	853.1	812.3	916.6	1007.4	884.9	798.6	766.9	744.2
57.5°	10799.9	7401.1	1792.4	757.8	753.3	853.1	957.5	844.0	744.2	717.0	717.0
60°	6734.0	4165.7	1084.5	635.3	653.4	757.8	862.2	753.3	662.5	662.5	676.1
62.5°	3067.5	1733.4	658.0	540.0	562.7	653.4	766.9	680.7	630.7	680.7	689.7
65°	1043.7	748.7	476.5	431.1	444.7	540.0	658.0	689.7	685.2	717.0	735.1
67.5°	585.4	481.0	399.3	358.5	349.4	399.3	540.0	689.7	662.5	648.9	658.0
70°	494.6	408.4	353.9	317.6	304.0	322.2	417.5	521.8	467.4	453.8	444.7
72.5°	399.3	340.3	308.6	285.9	245.0	208.7	190.6	199.7	222.4	236.0	258.7
75°	281.3	258.7	258.7	231.4	177.0	131.6	104.4	86.2	59.0	40.8	45.4
77.5°	158.8	158.8	163.4	140.7	113.4	86.2	63.5	45.4	22.7	9.1	4.5
80°	108.9	118.0	127.1	113.4	95.3	77.1	54.5	31.8	13.6	0.0	0.0
82.5°	108.9	122.5	131.6	113.4	95.3	72.6	54.5	31.8	13.6	4.5	0.0
85°	22.7	27.2	31.8	36.3	54.5	54.5	40.8	27.2	13.6	4.5	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	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)