

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: P533233

Luminaire Tested: **GALN-SA8C-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
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-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27601 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

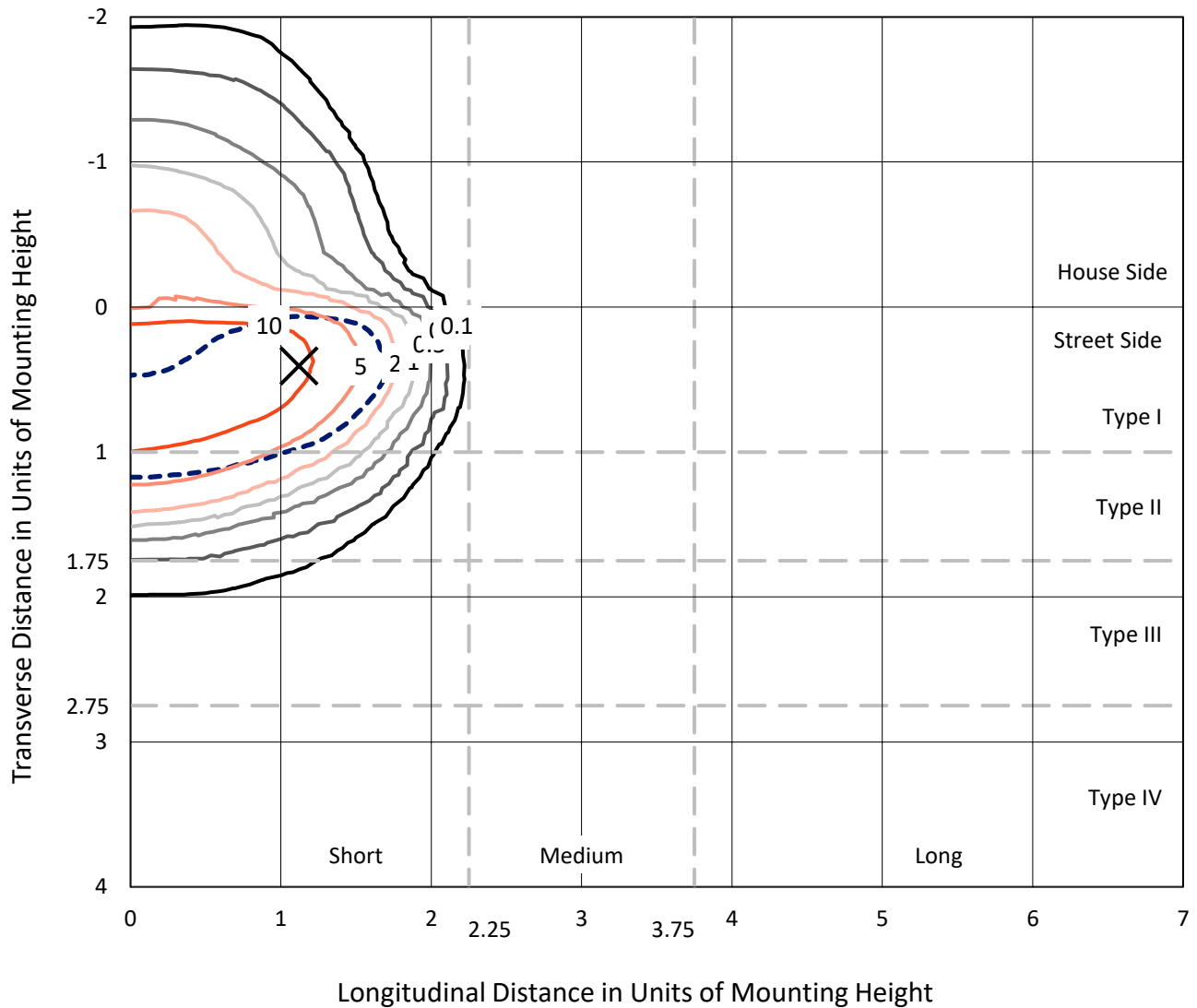
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

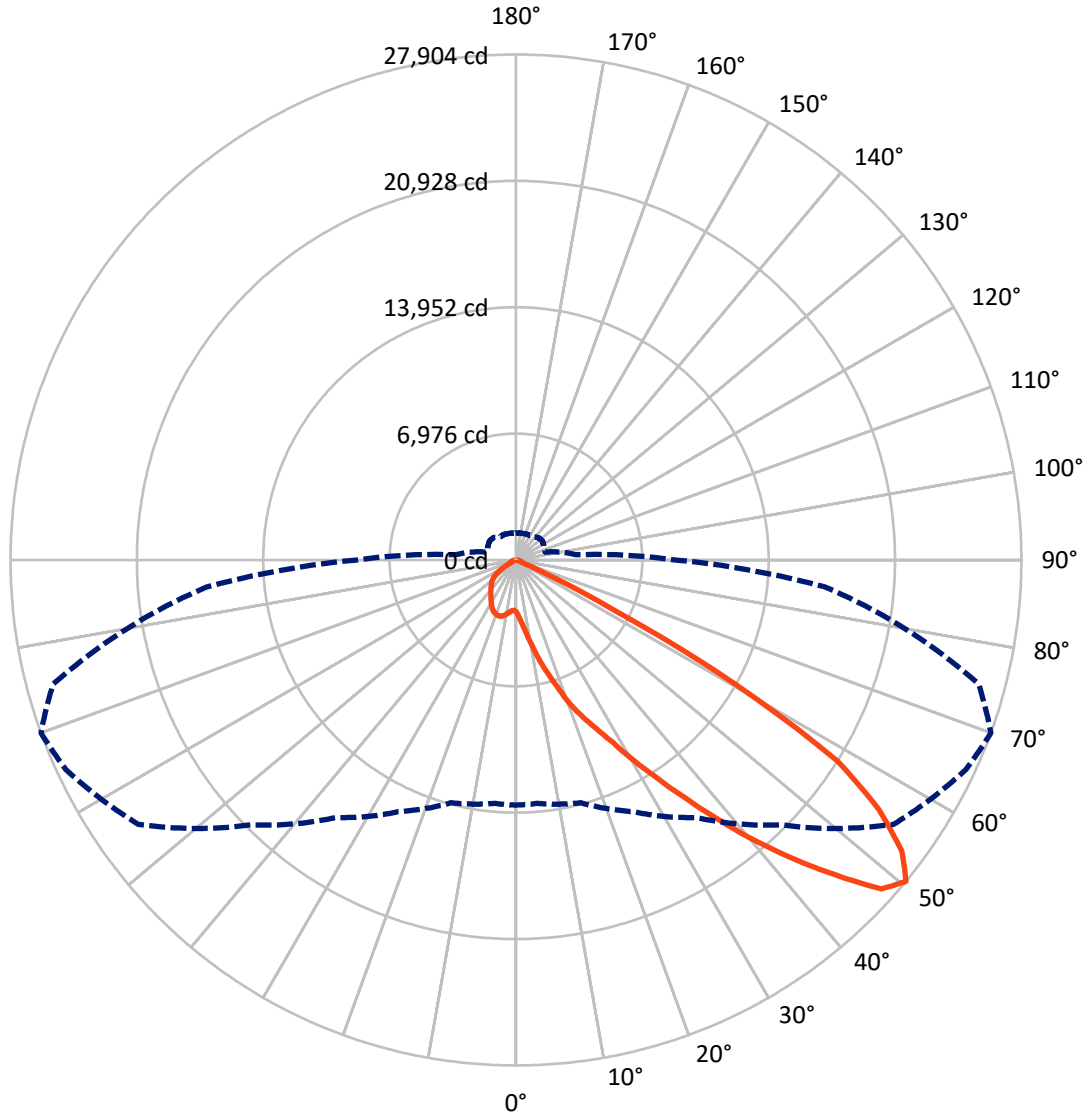
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3854.7	0.0	3854.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	23746.3	0.0	23746.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	27601.0	0.0	27601.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.8	1.3
10°-20°	1608.1	5.8
20°-30°	3373.6	12.2
30°-40°	5814.9	21.1
40°-50°	8498.4	30.8
50°-60°	6618.9	24.0
60°-70°	1121.4	4.1
70°-80°	154.1	0.6
80°-90°	39.9	0.1
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°	27601.0	100.0
0°-180°	27601.0	100.0

Coefficient of Utilization



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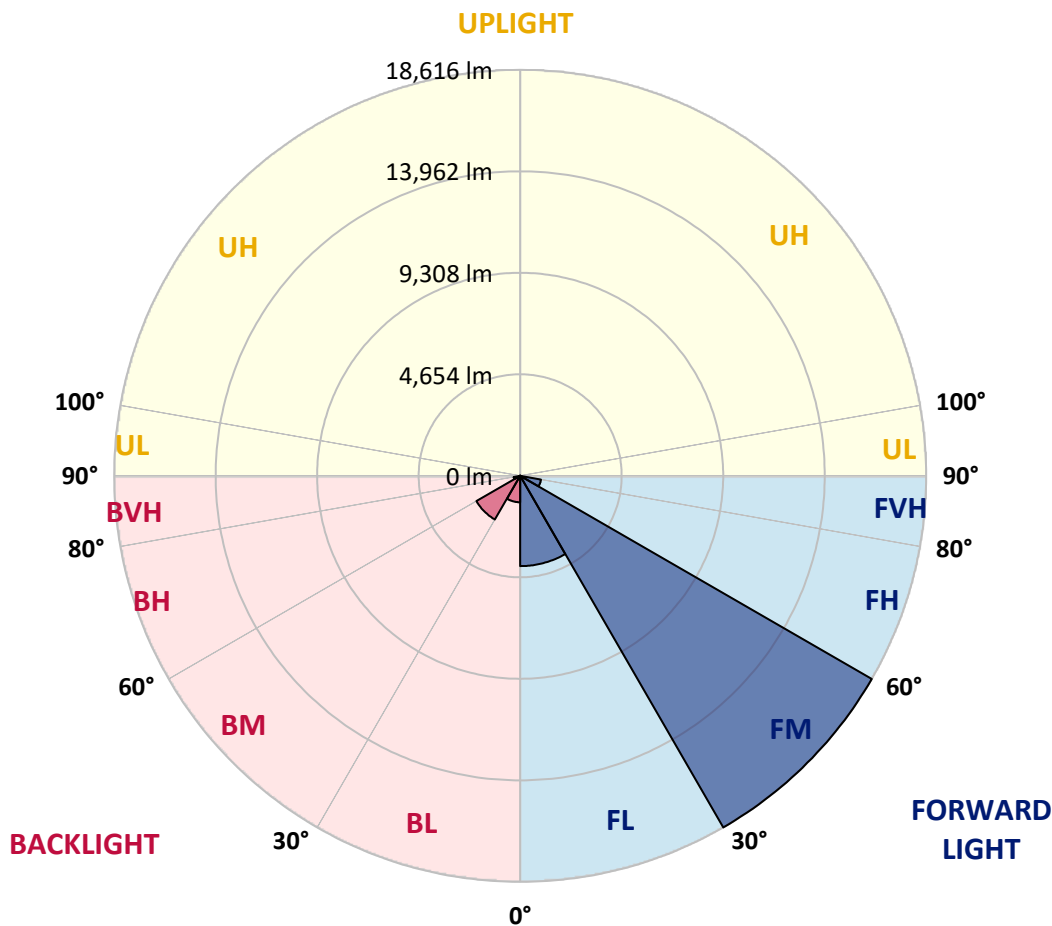
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4140.5	15.0			
FM (30°-60°)	18616.4	67.4			
FH (60°-80°)	971.0	3.5			G1/1800
FVH (80°-90°)	18.4	0.1			G1/100
BL (0°-30°)	1213.0	4.4	B3/2500		
BM (30°-60°)	2315.8	8.4	B2/2500		
BH (60°-80°)	304.5	1.1	B1/500		G1/500
BVH (80°-90°)	21.5	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2858.9	2858.9	2858.9	2858.9	2858.9	2858.9	2858.9	2858.9	2858.9	2858.9	2858.9
2.5°	3743.8	3716.6	3657.6	3548.7	3503.3	3394.4	3330.9	3208.3	3131.2	3045.0	2949.7
5°	5273.1	5132.4	5046.2	4923.7	4565.2	4342.8	3975.3	3662.1	3516.9	3358.1	3140.3
7.5°	6852.3	6761.6	6643.6	6380.4	6135.3	5672.5	5041.7	4351.9	4056.9	3784.7	3353.6
10°	8159.3	7905.1	7891.5	7696.4	7428.7	6875.0	6117.2	5259.5	4733.1	4333.8	3657.6
12.5°	9071.4	8840.0	8944.3	8921.6	8672.1	8163.8	7288.0	6153.5	5604.4	4982.7	3970.7
15°	9901.8	9806.5	9774.8	9747.6	9647.7	9271.1	8486.0	7242.6	6448.5	5699.7	4324.7
17.5°	10714.1	10469.1	10587.1	10609.8	10600.7	10260.3	9525.2	8277.3	7342.4	6457.5	4696.8
20°	11435.7	11458.4	11299.5	11267.8	11240.5	11226.9	10509.9	9302.8	8440.6	7251.7	5182.4
22.5°	12361.4	12202.6	12343.3	12252.5	12075.5	11966.6	11417.5	10210.4	9393.6	8209.2	5677.0
25°	13455.1	13582.1	13250.9	13214.6	13019.4	12642.8	12148.1	11226.9	10310.3	9098.6	6212.5
27.5°	14802.9	14580.5	14494.3	14294.6	13940.6	13781.8	13201.0	12275.2	11417.5	10033.4	6729.8
30°	15960.0	15901.0	15469.9	15234.0	14925.4	14920.8	14108.5	13695.6	12860.6	11499.2	7442.3
32.5°	16903.9	16645.3	16486.4	16323.1	16073.5	16141.6	15456.3	15238.5	14399.0	12860.6	8281.8
35°	17534.7	17348.7	17253.4	17003.8	16931.2	17235.2	16949.3	16858.6	16168.8	14775.6	9266.5
37.5°	17734.4	17793.4	17775.2	17462.1	17616.4	18437.8	18805.3	18569.4	18206.3	16795.0	10333.0
40°	17911.4	17952.2	17861.4	18229.0	18669.2	19604.0	20933.6	20543.4	20407.2	18841.6	11816.9
42.5°	18011.2	17979.4	17979.4	18614.7	19281.8	21160.5	22989.3	22730.7	22626.3	21019.9	13532.2
45°	17580.1	17271.5	17602.8	18465.0	19808.2	21927.5	24632.1	24990.6	24840.8	23611.0	15538.0
47.5°	15969.1	16159.7	16345.8	17498.4	19168.4	21691.5	25639.5	26860.2	27137.1	25789.3	16854.0
50°	13532.2	13491.4	13877.1	15329.3	17357.7	20675.0	25444.4	27400.3	27904.0	26442.7	17130.8
52.5°	9842.9	10142.4	10559.9	12002.9	14408.0	18043.0	22925.8	26007.1	26678.7	25639.5	16949.3
55°	5731.5	5400.2	6339.5	7560.3	9829.2	13609.4	19381.7	23052.9	24296.3	24178.3	16032.6
57.5°	2296.2	2223.6	2545.8	3430.7	5127.9	8436.1	14094.9	18941.5	20933.6	22145.3	14090.4
60°	1007.4	984.7	1157.2	1397.7	2096.5	3889.0	7710.0	11780.6	13859.0	15474.5	9697.6
62.5°	726.1	717.0	803.2	889.4	1107.3	1692.7	3240.1	4746.7	5917.5	7147.3	4342.8
65°	585.4	608.1	667.1	712.5	816.8	939.4	1143.6	1320.5	1620.1	1679.0	957.5
67.5°	476.5	494.6	549.1	599.0	617.2	508.3	526.4	462.9	462.9	413.0	331.3
70°	349.4	354.0	417.5	476.5	381.2	204.2	358.5	358.5	322.2	308.6	281.4
72.5°	258.7	263.2	313.1	295.0	149.8	127.1	263.2	290.4	263.2	249.6	226.9
75°	190.6	195.1	163.4	68.1	63.5	81.7	154.3	199.7	190.6	186.1	172.4
77.5°	36.3	27.2	22.7	31.8	45.4	68.1	99.8	122.5	127.1	136.1	127.1
80°	4.5	4.5	13.6	27.2	49.9	72.6	104.4	118.0	122.5	127.1	118.0
82.5°	0.0	4.5	13.6	27.2	49.9	68.1	90.8	104.4	113.4	118.0	113.4
85°	0.0	4.5	9.1	22.7	40.8	49.9	45.4	31.8	27.2	31.8	22.7
87.5°	0.0	0.0	4.5	4.5	9.1	9.1	9.1	9.1	9.1	9.1	9.1
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°	2858.9	2858.9	2858.9	2858.9	2858.9	2858.9	2858.9	2858.9	2858.9	2858.9	2858.9
2.5°	2895.2	2877.1	2813.5	2745.5	2686.5	2713.7	2686.5	2663.8	2672.9	2663.8	2654.7
5°	3054.1	2972.4	2836.2	2777.2	2727.3	2722.8	2709.2	2704.6	2709.2	2709.2	2668.3
7.5°	3203.8	3072.2	2927.0	2863.5	2804.5	2809.0	2777.2	2777.2	2772.7	2750.0	2740.9
10°	3430.7	3253.7	3067.7	2954.2	2881.6	2868.0	2836.2	2804.5	2804.5	2804.5	2759.1
12.5°	3680.3	3457.9	3203.8	3072.2	2986.0	2917.9	2868.0	2858.9	2809.0	2799.9	2777.2
15°	3898.1	3616.8	3294.6	3113.0	3004.1	2913.4	2836.2	2786.3	2763.6	2750.0	2731.9
17.5°	4111.4	3752.9	3344.5	3113.0	2995.1	2890.7	2809.0	2763.6	2709.2	2718.2	2681.9
20°	4397.3	3898.1	3358.1	3054.1	2908.8	2809.0	2700.1	2677.4	2645.6	2618.4	2627.5
22.5°	4674.1	4002.5	3317.3	2981.4	2772.7	2654.7	2600.3	2573.0	2559.4	2536.7	2505.0
25°	4923.7	4115.9	3253.7	2849.8	2627.5	2541.3	2491.3	2486.8	2455.0	2455.0	2396.0
27.5°	5177.8	4156.8	3144.8	2695.6	2500.4	2450.5	2427.8	2418.7	2405.1	2373.4	2332.5
30°	5468.3	4170.4	2986.0	2536.7	2387.0	2332.5	2364.3	2387.0	2328.0	2269.0	2287.1
32.5°	5708.8	4138.6	2795.4	2387.0	2305.3	2278.1	2341.6	2364.3	2296.2	2232.7	2200.9
35°	5999.2	4061.5	2609.3	2269.0	2223.6	2278.1	2332.5	2332.5	2196.4	2119.2	2101.1
37.5°	6439.4	3975.3	2436.9	2169.1	2137.4	2250.8	2323.4	2273.5	2060.2	1964.9	1942.3
40°	6911.3	3920.8	2269.0	2069.3	2092.0	2205.5	2246.3	2092.0	1874.2	1815.2	1797.0
42.5°	7596.6	3811.9	2119.2	1983.1	2051.2	2141.9	2141.9	1865.1	1783.4	1751.7	1747.1
45°	8449.7	3734.7	1987.6	1910.5	1992.2	2014.9	1942.3	1747.1	1688.1	1679.0	1683.6
47.5°	8867.2	3585.0	1851.5	1824.3	1883.3	1887.8	1697.2	1651.8	1601.9	1588.3	1579.2
50°	8803.7	3317.3	1674.5	1710.8	1792.5	1747.1	1547.4	1556.5	1511.1	1506.6	1483.9
52.5°	8358.9	2895.2	1497.5	1583.8	1674.5	1542.9	1424.9	1415.8	1415.8	1356.9	1334.2
55°	7410.5	2332.5	1284.2	1393.2	1502.1	1297.9	1266.1	1257.0	1234.3	1179.9	1166.3
57.5°	5867.6	1710.8	966.6	1084.6	1275.2	1102.7	1098.2	1057.3	998.4	957.5	957.5
60°	3489.7	984.7	608.1	662.5	844.1	894.0	993.8	975.7	875.8	812.3	794.1
62.5°	1592.8	508.3	385.7	394.8	453.8	580.9	780.5	903.1	762.4	653.5	644.4
65°	535.5	376.7	317.7	304.0	313.1	349.4	467.4	639.9	608.1	503.7	485.6
67.5°	326.7	335.8	299.5	276.8	276.8	272.3	267.7	290.4	358.5	349.4	354.0
70°	281.4	308.6	276.8	249.6	240.5	226.9	190.6	158.8	136.1	158.8	167.9
72.5°	226.9	245.1	236.0	213.3	190.6	172.4	136.1	104.4	77.1	68.1	68.1
75°	167.9	181.5	190.6	163.4	145.2	122.5	99.8	68.1	40.8	27.2	27.2
77.5°	122.5	136.1	140.7	127.1	108.9	86.2	63.5	45.4	22.7	9.1	9.1
80°	104.4	122.5	136.1	127.1	113.4	81.7	59.0	31.8	18.2	4.5	4.5
82.5°	99.8	122.5	136.1	122.5	108.9	77.1	59.0	36.3	13.6	4.5	4.5
85°	22.7	31.8	40.8	49.9	59.0	59.0	45.4	27.2	13.6	4.5	4.5
87.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	4.5	4.5	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)