

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: P531593

Luminaire Tested: **GALN-SA6D-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531593
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-SA6D-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 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: 19893 lumens
Efficiency: N/A
Efficacy: 54.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

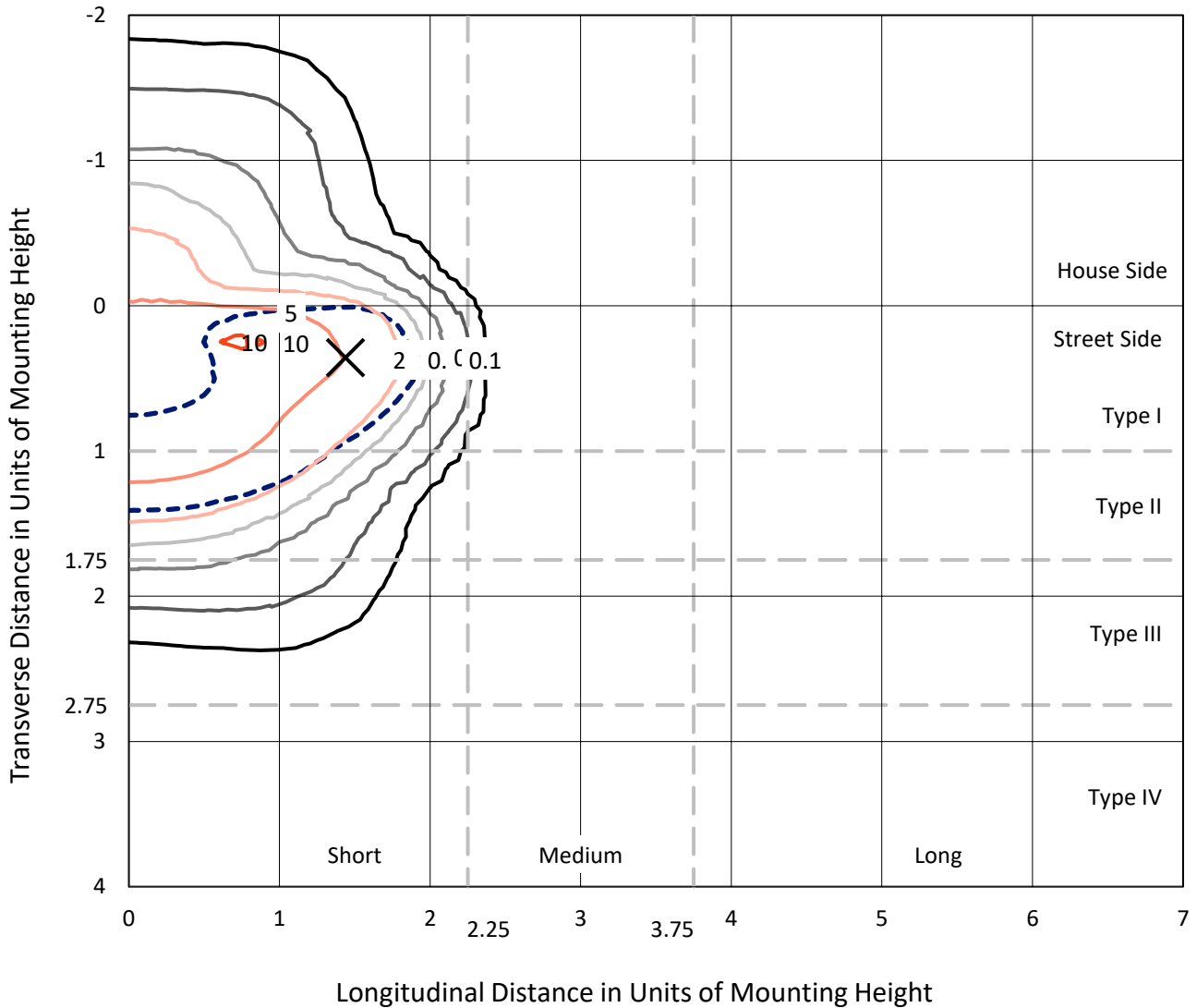
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

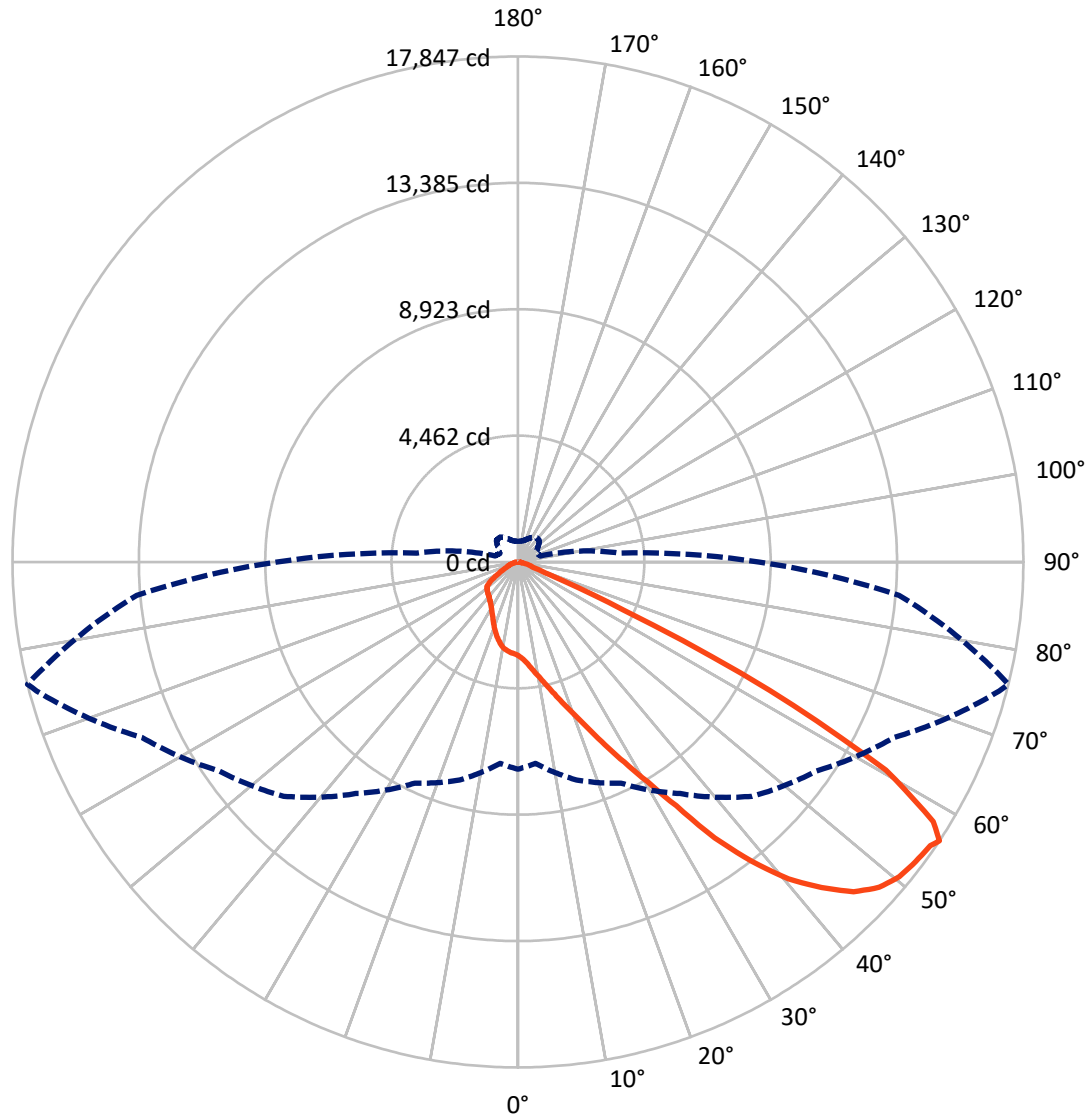
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	3125.1	0.0	3125.1
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	16767.9	0.0	16767.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	19893.0	0.0	19893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.6	1.7
10°-20°	1071.6	5.4
20°-30°	1943.1	9.8
30°-40°	3351.0	16.8
40°-50°	5443.8	27.4
50°-60°	5737.9	28.8
60°-70°	1753.2	8.8
70°-80°	224.7	1.1
80°-90°	34.2	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°	19893.0	100.0
0°-180°	19893.0	100.0

Coefficient of Utilization

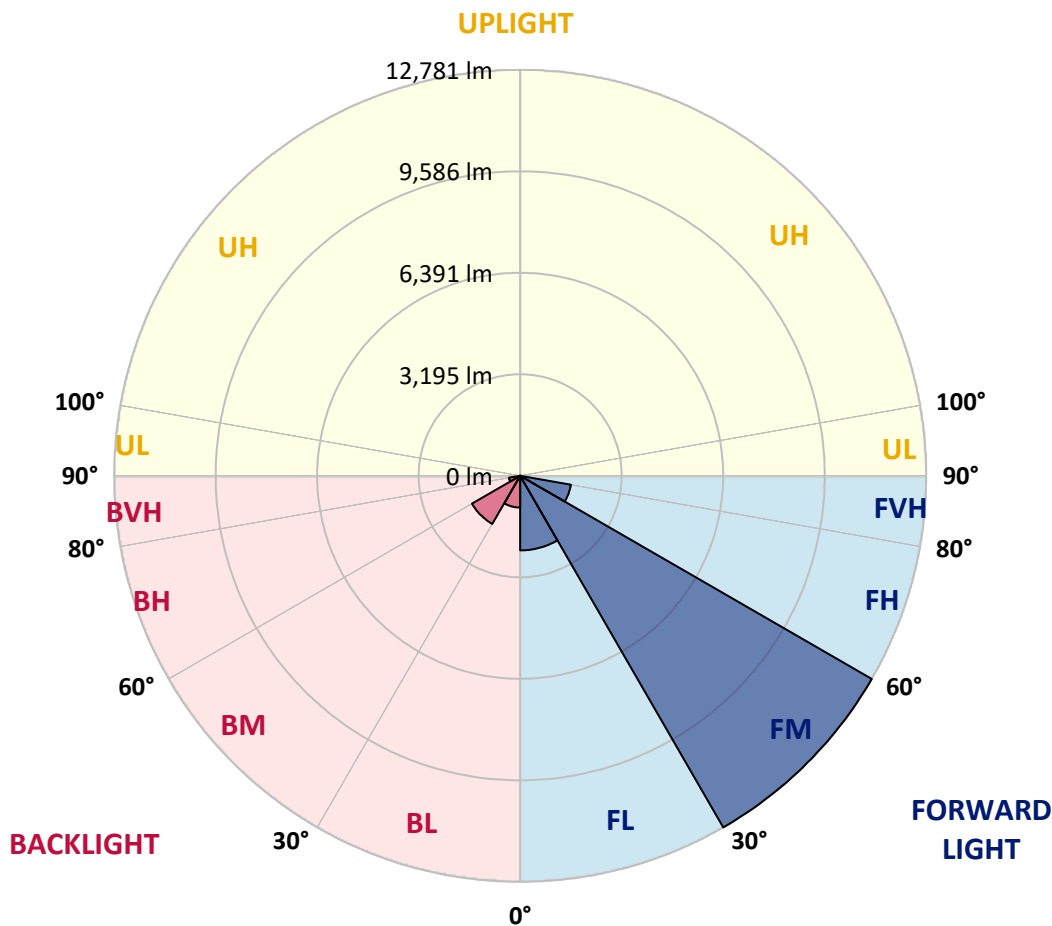


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2348.5	11.8			
FM (30°-60°)	12781.2	64.2			
FH (60°-80°)	1621.4	8.2			G1/1800
FVH (80°-90°)	16.7	0.1			G1/100
BL (0°-30°)	999.7	5.0	B2/1000		
BM (30°-60°)	1751.4	8.8	B2/2500		
BH (60°-80°)	356.5	1.8	B1/500		G1/500
BVH (80°-90°)	17.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2
2.5°	3813.6	3725.6	3729.2	3721.9	3710.9	3670.6	3549.6	3531.2	3450.6	3428.6	3355.2
5°	4272.0	4194.9	4238.9	4172.9	4110.6	4073.9	3875.9	3784.3	3655.9	3608.2	3505.6
7.5°	4558.0	4521.3	4506.6	4510.3	4451.6	4360.0	4272.0	4070.3	3897.9	3861.3	3644.9
10°	4697.3	4675.3	4697.3	4686.3	4712.0	4723.0	4569.0	4448.0	4194.9	4132.6	3795.3
12.5°	4730.3	4774.3	4792.7	4840.3	4902.7	5009.0	4998.0	4833.0	4495.6	4455.3	4026.3
15°	4811.0	4847.7	4829.3	4906.3	5023.7	5203.3	5298.7	5273.0	4910.0	4836.7	4294.0
17.5°	4884.3	4818.3	4880.7	5034.7	5152.0	5427.0	5658.0	5764.4	5361.0	5276.7	4539.6
20°	4983.3	4965.0	4954.0	5031.0	5240.0	5606.7	6065.1	6259.4	5867.1	5779.1	4891.7
22.5°	5284.0	5287.7	5280.4	5166.7	5317.0	5731.4	6420.8	6901.1	6472.1	6398.8	5291.4
25°	5680.0	5632.4	5595.7	5504.0	5485.7	5845.1	6780.1	7685.8	7198.1	7146.8	5724.0
27.5°	6098.1	6098.1	5988.1	5903.7	5786.4	6127.4	7110.1	8448.6	8074.5	8004.9	6101.7
30°	6552.8	6578.4	6563.8	6384.1	6310.8	6435.4	7447.5	9424.0	9079.3	8991.3	6725.1
32.5°	7223.8	7168.8	7231.1	7080.8	6864.5	6974.5	7979.2	10296.7	10384.7	10260.0	7542.8
35°	8111.2	8078.2	8037.9	7792.2	7535.5	7623.5	8730.9	11371.1	12023.8	11961.5	8367.9
37.5°	8906.9	8888.6	8855.6	8686.9	8389.9	8496.2	9585.3	12489.5	13622.6	13417.2	9534.0
40°	9743.0	9842.0	9735.6	9585.3	9314.0	9548.6	10590.0	13153.2	14968.3	14719.0	10425.0
42.5°	10876.1	10799.1	10846.7	10571.7	10425.0	10681.7	11598.4	13816.9	16013.4	15716.4	11371.1
45°	12082.5	12086.1	11957.8	11869.8	11488.4	11767.1	12218.1	14183.6	16845.8	16614.8	12086.1
47.5°	12856.2	12852.5	12991.9	13131.2	12738.8	12463.8	12639.8	14532.0	17274.8	17168.5	12346.5
50°	12735.2	12771.8	12951.5	13472.2	13677.6	13307.2	13035.9	14429.3	17469.2	17458.2	12570.2
52.5°	11077.7	11198.7	11499.4	12251.1	13285.2	13743.6	13450.2	14620.0	17564.5	17582.8	12903.9
55°	8433.9	8499.9	9071.9	9985.0	11129.1	12698.5	13285.2	14770.3	17637.8	17670.8	13307.2
56°	7315.5	7139.5	7964.5	8613.6	9981.3	11697.4	12867.2	14653.0	17593.8	17846.9	13508.9
57.5°	5522.4	5405.0	6072.4	6882.8	8199.2	10010.7	11569.1	14099.3	17296.8	17293.1	13219.2
60°	3358.9	3241.5	3754.9	4231.6	4968.7	6164.1	7817.9	11228.1	14623.6	14931.7	10703.7
62.5°	1998.5	2071.8	2577.8	2867.5	3105.9	3230.5	4044.6	6673.8	9757.6	9977.7	6640.8
65°	1331.1	1356.8	1738.1	2214.8	2321.2	1848.1	1646.4	2702.5	4231.6	4095.9	2739.2
67.5°	821.4	880.1	1166.1	1664.8	1844.5	1349.4	781.1	1008.4	1166.1	1166.1	792.1
70°	498.7	528.0	777.4	1133.1	1265.1	869.1	568.4	568.4	561.0	550.0	473.0
72.5°	238.3	256.7	396.0	583.0	594.0	458.4	440.0	480.4	469.4	465.7	392.4
75°	102.7	110.0	139.3	183.3	209.0	194.3	267.7	344.7	355.7	344.7	282.4
77.5°	33.0	36.7	51.3	66.0	69.7	84.3	113.7	143.0	165.0	154.0	139.3
80°	3.7	7.3	14.7	33.0	51.3	66.0	84.3	95.3	106.3	106.3	99.0
82.5°	3.7	3.7	14.7	29.3	47.7	62.3	80.7	91.7	106.3	110.0	102.7
85°	0.0	3.7	11.0	25.7	40.3	40.3	36.7	36.7	25.7	25.7	25.7
87.5°	0.0	0.0	3.7	3.7	3.7	7.3	7.3	7.3	7.3	7.3	7.3
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°	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2
2.5°	3340.6	3333.2	3234.2	3171.9	3138.9	3072.9	3032.5	3003.2	2981.2	2955.5	2959.2
5°	3384.6	3358.9	3193.9	3080.2	2944.5	2871.2	2808.9	2757.5	2724.5	2717.2	2702.5
7.5°	3509.2	3373.6	3124.2	2918.9	2746.5	2673.2	2618.2	2585.2	2599.8	2566.8	2592.5
10°	3604.6	3402.9	3039.9	2742.8	2570.5	2515.5	2486.2	2511.8	2548.5	2533.8	2515.5
12.5°	3721.9	3432.2	2904.2	2574.2	2412.8	2372.5	2423.8	2471.5	2544.8	2574.2	2537.5
15°	3853.9	3465.2	2731.8	2379.8	2277.2	2310.2	2398.2	2482.5	2555.8	2592.5	2614.5
17.5°	4015.3	3454.2	2563.2	2225.8	2148.8	2244.1	2350.5	2427.5	2537.5	2592.5	2577.8
20°	4165.6	3417.6	2376.2	2071.8	2075.5	2163.5	2251.5	2376.2	2434.8	2508.2	2482.5
22.5°	4308.6	3351.6	2181.8	1965.5	1965.5	2101.1	2145.1	2225.8	2277.2	2313.8	2310.2
25°	4510.3	3226.9	2020.5	1862.8	1906.8	1994.8	2031.5	2057.1	2035.1	2064.5	2068.1
27.5°	4653.3	3098.5	1888.5	1771.1	1851.8	1917.8	1906.8	1892.1	1840.8	1800.5	1826.1
30°	4807.3	2948.2	1774.8	1708.8	1752.8	1811.5	1767.5	1723.4	1642.8	1576.8	1580.4
32.5°	5027.3	2878.5	1675.8	1635.4	1694.1	1701.4	1653.8	1587.8	1507.1	1444.8	1441.1
35°	5438.0	2834.5	1591.4	1587.8	1598.8	1602.4	1554.8	1474.1	1441.1	1389.8	1408.1
37.5°	5848.7	2812.5	1532.8	1518.1	1514.4	1518.1	1463.1	1386.1	1448.4	1444.8	1452.1
40°	6373.1	2911.5	1448.4	1430.1	1433.8	1433.8	1364.1	1342.1	1452.1	1463.1	1466.8
42.5°	6904.8	3036.2	1393.4	1334.8	1349.4	1349.4	1312.8	1287.1	1364.1	1290.8	1279.8
45°	7366.8	3219.5	1334.8	1239.4	1276.1	1294.4	1283.4	1239.4	1191.7	1067.1	1067.1
47.5°	7517.2	3380.9	1265.1	1147.7	1177.1	1257.8	1224.7	1133.1	1048.7	946.1	938.7
50°	7781.2	3556.9	1210.1	1041.4	1103.7	1202.7	1169.7	1078.1	982.7	909.4	913.1
52.5°	8052.5	3758.6	1107.4	916.7	993.7	1158.7	1158.7	1056.1	909.4	858.1	850.7
55°	8459.6	3751.2	924.1	751.7	887.4	1092.7	1111.1	946.1	814.1	773.7	773.7
56°	8518.2	3582.6	832.4	704.0	839.7	1074.4	1078.1	916.7	777.4	733.4	733.4
57.5°	8078.2	3234.2	729.7	645.4	781.1	1041.4	1045.1	891.1	748.0	685.7	678.4
60°	6215.4	2189.1	608.7	575.7	707.7	938.7	957.1	810.4	656.4	608.7	605.0
62.5°	3509.2	1213.7	535.4	520.7	608.7	799.4	854.4	707.7	557.4	531.7	539.0
65°	1602.4	667.4	451.0	421.7	491.4	616.0	689.4	583.0	458.4	429.0	429.0
67.5°	586.7	454.7	385.0	333.7	344.7	399.7	447.4	377.7	304.4	260.4	271.4
70°	418.0	381.4	337.4	289.7	267.7	260.4	256.7	212.7	150.3	117.3	124.7
72.5°	337.4	315.4	282.4	245.7	209.0	176.0	150.3	110.0	69.7	47.7	44.0
75°	242.0	231.0	205.3	176.0	146.7	124.7	102.7	69.7	36.7	18.3	18.3
77.5°	124.7	124.7	121.0	110.0	91.7	73.3	58.7	40.3	22.0	7.3	7.3
80°	95.3	102.7	106.3	95.3	84.3	66.0	47.7	29.3	14.7	3.7	3.7
82.5°	91.7	106.3	113.7	99.0	84.3	62.3	47.7	29.3	14.7	3.7	3.7
85°	22.0	22.0	33.0	36.7	47.7	51.3	40.3	25.7	11.0	3.7	3.7
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	3.7	3.7	3.7	3.7	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)