

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: P534405

Luminaire Tested: **GALN-SA9D-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534405
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-SA9D-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA 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: 30787 lumens
Efficiency: N/A
Efficacy: 55.8 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

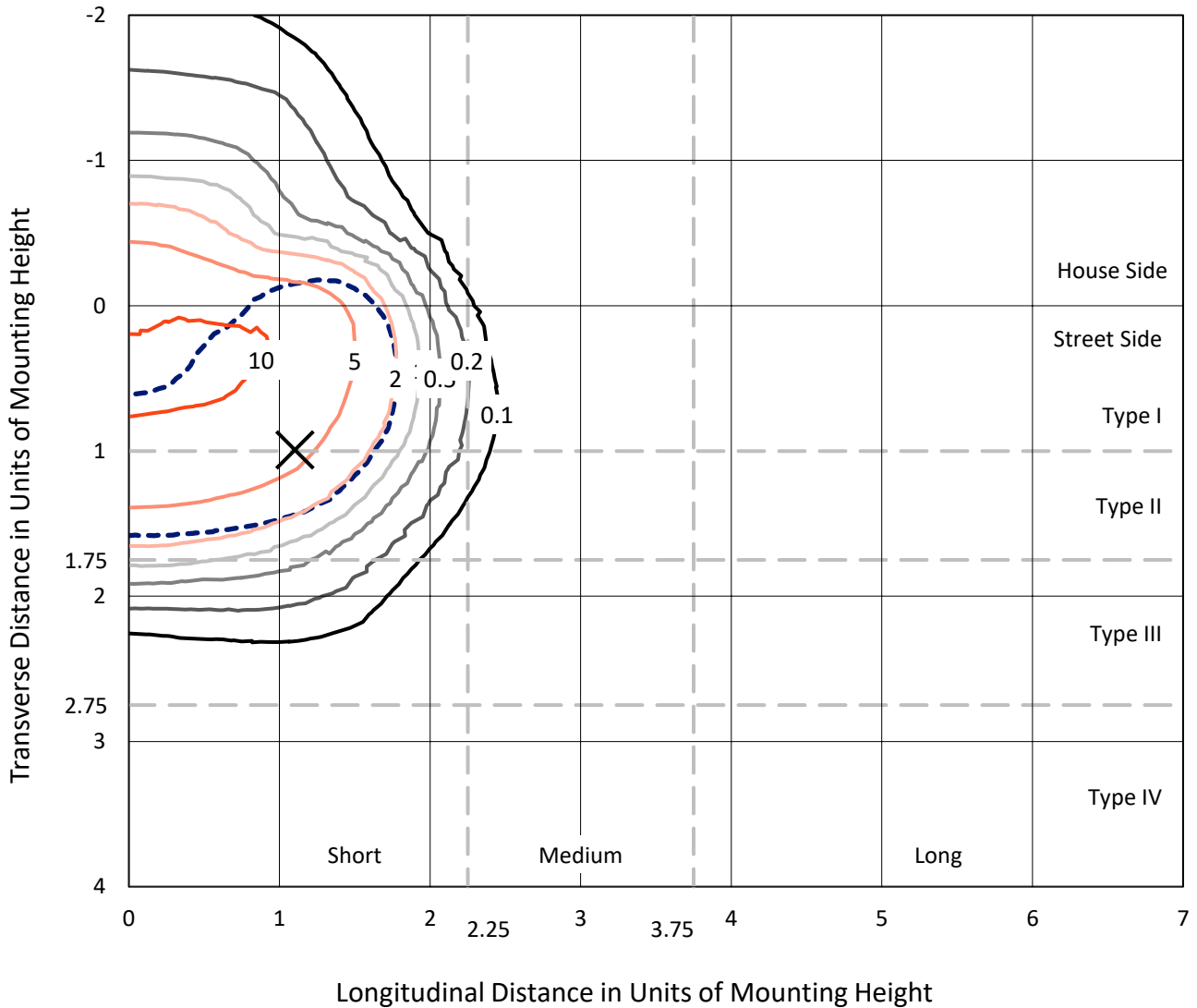
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

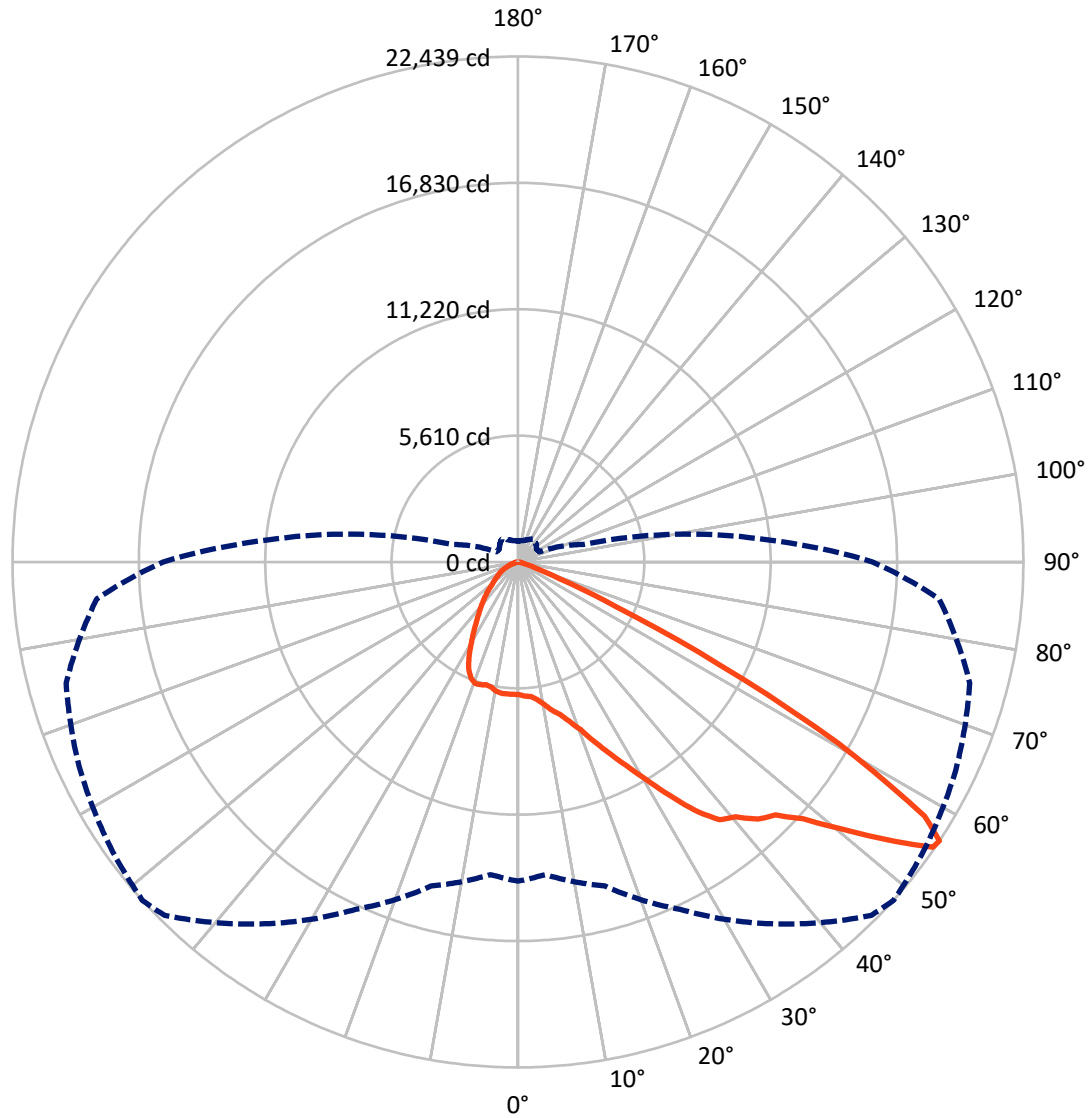
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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	6695.6	0.0	6695.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	24091.4	0.0	24091.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	30787.0	0.0	30787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.8	1.9
10°-20°	1830.6	5.9
20°-30°	3320.3	10.8
30°-40°	5215.6	16.9
40°-50°	7608.6	24.7
50°-60°	9166.9	29.8
60°-70°	2684.0	8.7
70°-80°	340.5	1.1
80°-90°	47.7	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°	30787.0	100.0
0°-180°	30787.0	100.0

Coefficient of Utilization



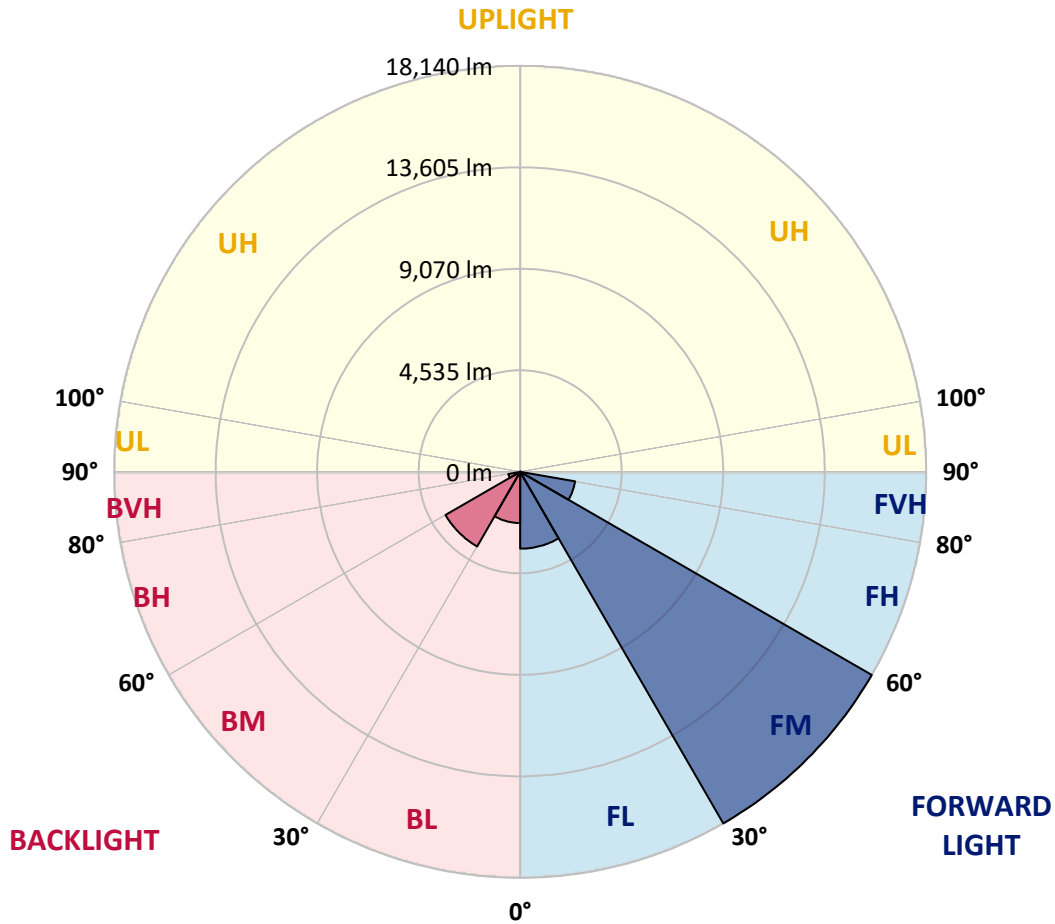
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3435.2	11.2			
FM (30°-60°)	18139.8	58.9			
FH (60°-80°)	2492.4	8.1			G2/5000
FVH (80°-90°)	24.0	0.1			G1/100
BL (0°-30°)	2288.5	7.4	B3/2500		
BM (30°-60°)	3851.3	12.5	B3/5000		
BH (60°-80°)	532.0	1.7	B2/1000		G2/1000
BVH (80°-90°)	23.8	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°	5880.3	5880.3	5880.3	5880.3	5880.3	5880.3	5880.3	5880.3	5880.3	5880.3	5880.3
2.5°	5986.8	5958.8	5958.8	5914.0	5964.4	5942.0	5958.8	5902.8	5958.8	5874.7	5942.0
5°	6014.9	6020.5	5998.0	6026.1	6026.1	6059.7	6003.7	6054.1	6082.1	6020.5	5992.4
7.5°	6160.6	6171.8	6166.2	6143.8	6188.6	6183.0	6177.4	6138.2	6149.4	6127.0	6093.3
10°	6446.5	6440.9	6468.9	6412.9	6379.2	6418.5	6429.7	6368.0	6323.2	6306.4	6199.9
12.5°	6861.3	6794.1	6754.8	6698.8	6715.6	6659.5	6760.4	6653.9	6631.5	6530.6	6424.1
15°	7197.7	7186.4	7192.1	7102.4	7001.5	7023.9	7023.9	6967.8	6934.2	6810.9	6659.5
17.5°	7887.2	7651.7	7702.2	7590.1	7506.0	7500.4	7449.9	7461.1	7371.4	7113.6	6883.7
20°	8425.3	8324.4	8245.9	8055.3	7926.4	7965.6	7943.2	7887.2	7859.1	7522.8	7197.7
22.5°	8907.4	8941.0	8812.1	8761.6	8582.3	8599.1	8643.9	8593.5	8380.5	8032.9	7550.8
25°	9585.7	9546.4	9372.7	9311.0	9142.8	9204.5	9378.3	9339.0	9204.5	8576.6	7825.5
27.5°	10387.3	10252.7	10286.4	10006.1	9843.5	10017.3	10224.7	10420.9	10039.7	9215.7	8150.6
30°	10953.4	10813.3	10802.1	10790.9	10751.6	10953.4	11194.5	11373.9	11065.6	9854.7	8688.8
32.5°	11233.7	11267.4	11362.7	11329.0	11671.0	12085.8	12338.0	12595.9	12209.1	10897.4	9400.7
35°	11979.3	11766.3	11979.3	12001.7	12354.9	13234.9	13554.5	14171.1	14075.8	12371.7	10269.6
37.5°	12416.5	12399.7	12427.7	12640.7	12982.7	14070.2	14524.2	15000.7	14821.3	13257.4	11351.4
40°	13139.7	13184.5	13178.9	13341.5	13717.0	14698.0	14883.0	15269.8	15286.6	14485.0	12943.5
42.5°	14300.0	14120.6	14002.9	14171.1	14698.0	15241.8	15611.7	15533.3	16088.2	15976.1	14989.5
45°	15342.7	15449.2	15275.4	15555.7	15746.3	16037.8	16026.6	16194.7	16901.0	17433.6	16531.1
47.5°	16318.1	16385.3	16469.4	16660.0	17074.8	17119.7	17024.4	16951.5	17926.9	18476.2	17725.1
50°	16901.0	16962.7	17355.1	17697.0	18470.6	18571.5	18627.6	18442.6	19104.1	19165.7	18851.8
52.5°	16744.1	16811.4	17360.7	18487.4	19720.7	20645.6	20477.5	20163.5	20124.3	20365.3	19894.5
55°	15353.9	15292.2	16049.0	17803.6	20113.1	22332.9	22355.3	22024.6	21391.2	21228.6	19737.5
56°	14171.1	13930.0	14894.2	17013.2	19608.6	22187.2	22439.4	22086.3	21492.1	20763.3	18767.7
57.5°	11609.3	11839.1	12797.7	14552.3	17865.2	21138.9	21284.7	21200.6	20752.1	19530.1	16514.3
60°	6401.7	6805.3	7651.7	9798.7	12719.2	16222.8	16340.5	17024.4	17108.5	14955.9	11362.7
62.5°	2718.7	2673.9	3554.0	5134.8	7242.5	9793.1	10011.7	10712.4	10841.3	8621.5	5700.9
65°	1104.3	1166.0	1608.8	2584.2	3828.7	4462.1	4770.4	5000.2	5426.3	3559.6	2102.1
67.5°	728.7	723.1	947.4	1474.3	2062.9	1990.0	1990.0	2102.1	1945.2	1451.9	908.1
70°	521.3	538.1	678.3	1020.2	1283.7	953.0	913.7	874.5	992.2	958.6	734.3
72.5°	341.9	364.4	454.1	611.0	667.1	521.3	521.3	627.8	818.4	773.6	599.8
75°	224.2	229.8	280.3	353.2	330.7	269.1	297.1	420.4	594.2	571.8	426.0
77.5°	151.4	157.0	190.6	229.8	185.0	151.4	162.6	213.0	291.5	291.5	224.2
80°	56.1	61.7	78.5	72.9	84.1	106.5	117.7	145.7	173.8	173.8	151.4
82.5°	0.0	5.6	16.8	39.2	61.7	84.1	95.3	112.1	128.9	145.7	140.1
85°	0.0	5.6	16.8	28.0	44.8	50.5	56.1	39.2	33.6	33.6	28.0
87.5°	0.0	0.0	5.6	5.6	5.6	5.6	5.6	5.6	11.2	5.6	5.6
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°	5880.3	5880.3	5880.3	5880.3	5880.3	5880.3	5880.3	5880.3	5880.3	5880.3	5880.3
2.5°	5880.3	5874.7	5874.7	5857.9	5891.5	5874.7	5885.9	5880.3	5807.5	5863.5	5824.3
5°	5942.0	5981.2	5919.6	5908.4	5863.5	5880.3	5880.3	5824.3	5874.7	5869.1	5857.9
7.5°	6099.0	6031.7	5964.4	5897.1	5885.9	5869.1	5807.5	5785.0	5824.3	5779.4	5846.7
10°	6166.2	6177.4	6076.5	5986.8	5902.8	5785.0	5700.9	5650.5	5588.8	5656.1	5695.3
12.5°	6474.5	6362.4	6188.6	6048.5	5762.6	5644.9	5560.8	5538.4	5644.9	5667.3	5628.1
15°	6581.0	6564.2	6340.0	6026.1	5729.0	5588.8	5605.7	5560.8	5572.0	5516.0	5527.2
17.5°	6799.7	6609.1	6345.6	5953.2	5723.4	5689.7	5588.8	5409.5	5308.6	5263.7	5302.9
20°	7040.7	6855.7	6474.5	5981.2	5773.8	5684.1	5353.4	5134.8	4927.4	4815.3	4820.9
22.5°	7253.7	7023.9	6418.5	5992.4	5818.7	5448.7	5050.7	4619.1	4361.2	4187.4	4193.0
25°	7511.6	7186.4	6440.9	6014.9	5700.9	5073.1	4501.3	4080.9	3772.6	3654.9	3694.1
27.5°	7657.3	7287.3	6564.2	6065.3	5392.6	4540.6	3924.0	3531.6	3352.2	3296.1	3290.5
30°	8094.6	7511.6	6715.6	5964.4	4876.9	3968.8	3397.0	3156.0	2982.2	2931.8	2943.0
32.5°	8744.8	7920.8	6911.8	5700.9	4350.0	3458.7	3055.1	2875.7	2713.1	2617.8	2606.6
35°	9288.6	8621.5	7119.2	5291.7	3739.0	3066.3	2814.0	2589.8	2343.2	2236.7	2208.6
37.5°	10325.6	9411.9	7074.3	4675.1	3156.0	2774.8	2556.2	2281.5	2068.5	1922.7	1905.9
40°	11704.6	10336.8	6855.7	3924.0	2724.3	2516.9	2281.5	2018.0	1754.6	1631.2	1620.0
42.5°	13380.7	11469.2	6457.7	3161.6	2292.7	2259.1	2046.1	1743.4	1507.9	1418.2	1423.8
45°	14742.9	12438.9	6054.1	2539.4	1973.2	2006.8	1821.8	1535.9	1373.4	1300.5	1300.5
47.5°	15953.7	13094.8	5616.9	2096.5	1676.1	1754.6	1592.0	1423.8	1283.7	1227.6	1216.4
50°	17119.7	13761.9	5179.6	1698.5	1429.4	1507.9	1491.1	1356.6	1244.5	1177.2	1182.8
52.5°	17848.4	13868.4	4624.7	1390.2	1250.1	1339.8	1395.8	1272.5	1149.2	1109.9	1098.7
55°	16957.1	12495.0	3587.6	1143.6	1059.5	1177.2	1283.7	1143.6	1048.3	981.0	975.4
56°	15757.5	11172.1	2999.0	1053.9	1003.4	1132.3	1244.5	1093.1	986.6	947.4	919.3
57.5°	13341.5	9142.8	2214.2	936.1	930.5	1053.9	1182.8	1042.7	919.3	885.7	885.7
60°	8318.8	5146.0	1339.8	784.8	807.2	936.1	1065.1	930.5	818.4	818.4	835.2
62.5°	3789.4	2141.4	812.8	667.1	695.1	807.2	947.4	840.8	779.2	840.8	852.1
65°	1289.3	924.9	588.6	532.5	549.4	667.1	812.8	852.1	846.5	885.7	908.1
67.5°	723.1	594.2	493.3	442.8	431.6	493.3	667.1	852.1	818.4	801.6	812.8
70°	611.0	504.5	437.2	392.4	375.6	398.0	515.7	644.7	577.4	560.6	549.4
72.5°	493.3	420.4	381.2	353.2	302.7	257.9	235.4	246.6	274.7	291.5	319.5
75°	347.6	319.5	319.5	285.9	218.6	162.6	128.9	106.5	72.9	50.5	56.1
77.5°	196.2	196.2	201.8	173.8	140.1	106.5	78.5	56.1	28.0	11.2	5.6
80°	134.5	145.7	157.0	140.1	117.7	95.3	67.3	39.2	16.8	0.0	0.0
82.5°	134.5	151.4	162.6	140.1	117.7	89.7	67.3	39.2	16.8	5.6	0.0
85°	28.0	33.6	39.2	44.8	67.3	67.3	50.5	33.6	16.8	5.6	0.0
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	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)