

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: P531599

Luminaire Tested: **GALN-SA6D-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
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-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20509 lumens
Efficiency: N/A
Efficacy: 55.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

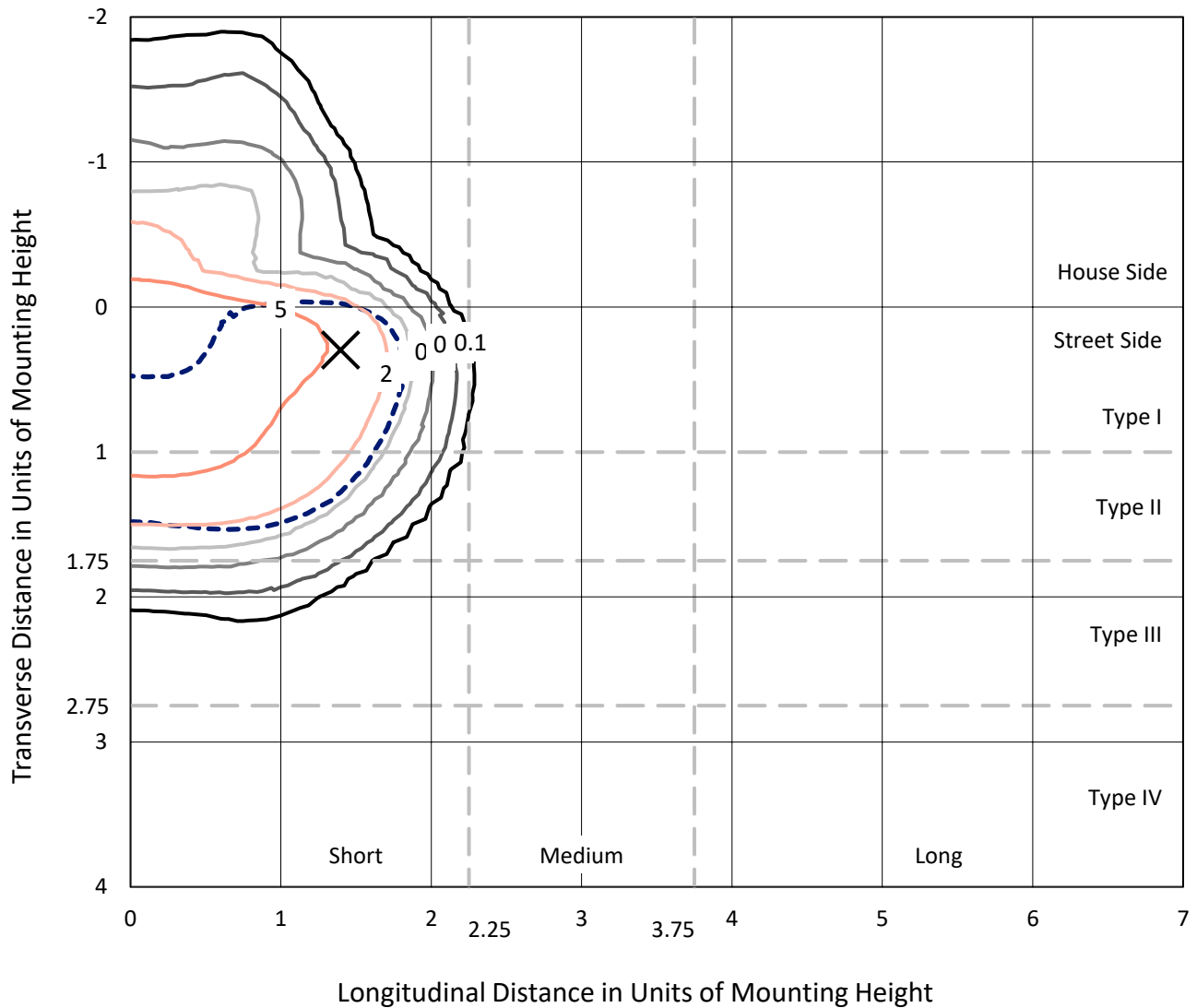
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531599
 CATALOG NUMBER: GALN-SA6D-827-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

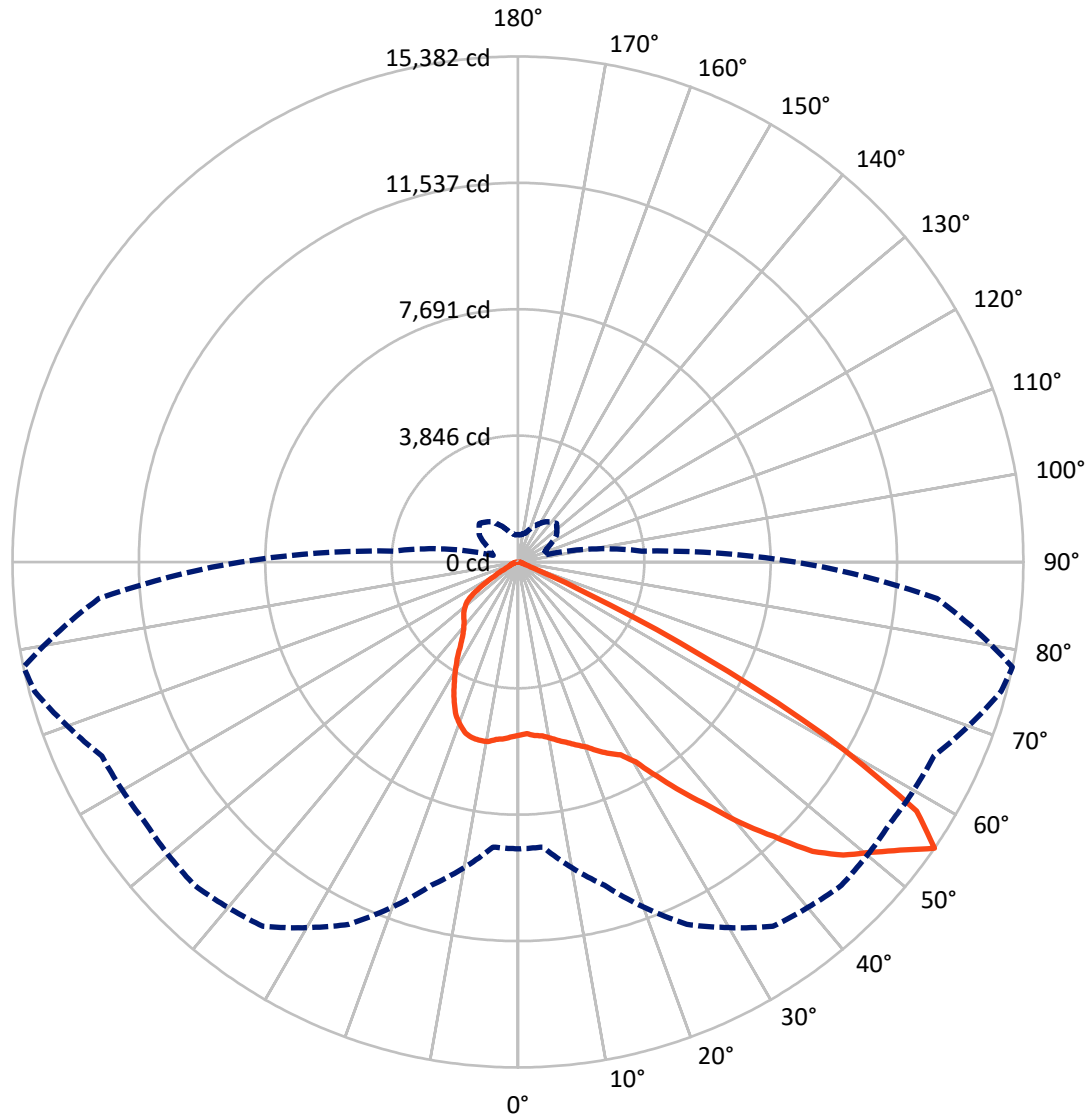
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

REPORT NUMBER: P531599
CATALOG NUMBER: GALN-SA6D-827-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P531599
 CATALOG NUMBER: GALN-SA6D-827-U-T3R-GRSBK

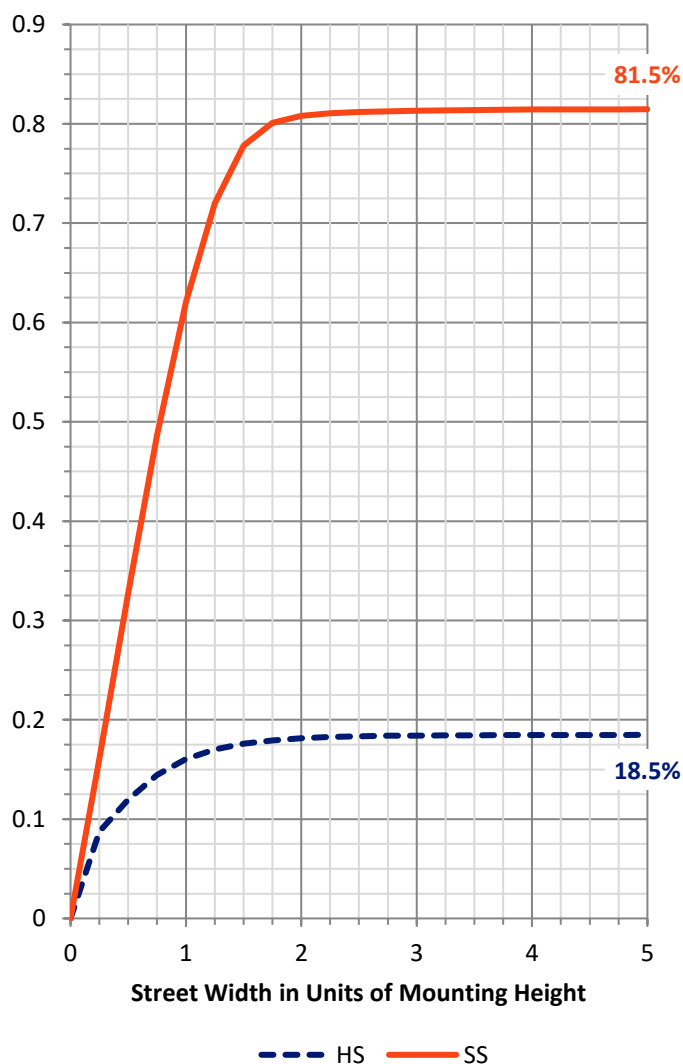
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3809.3	0.0	3809.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16699.7	0.0	16699.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	20509.0	0.0	20509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.2	2.3
10°-20°	1244.3	6.1
20°-30°	2181.1	10.6
30°-40°	3596.3	17.5
40°-50°	5233.1	25.5
50°-60°	5929.6	28.9
60°-70°	1695.4	8.3
70°-80°	131.6	0.6
80°-90°	27.4	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°	20509.0	100.0
0°-180°	20509.0	100.0

Coefficient of Utilization

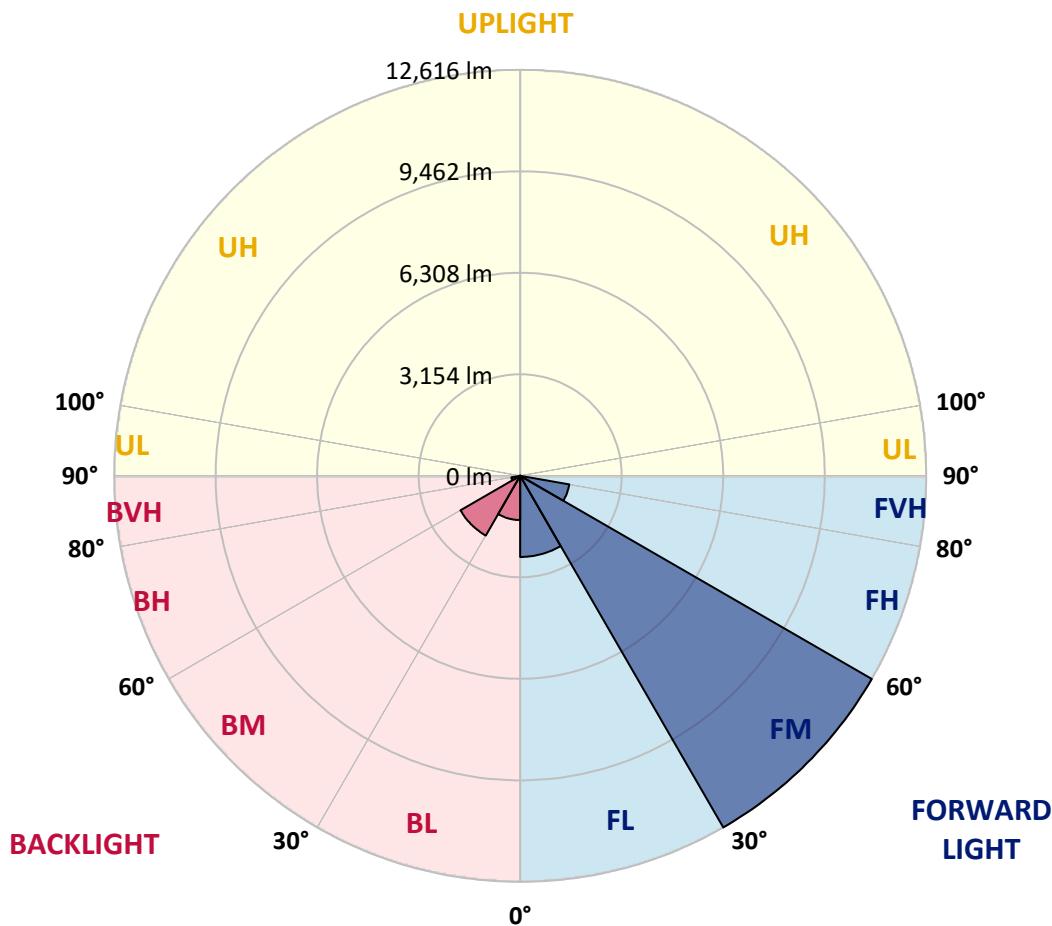


REPORT NUMBER: P531599
 CATALOG NUMBER: GALN-SA6D-827-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2521.1	12.3			
FM (30°-60°)	12616.2	61.5			
FH (60°-80°)	1549.0	7.6			G1/1800
FVH (80°-90°)	13.3	0.1			G1/100
BL (0°-30°)	1374.4	6.7	B3/2500		
BM (30°-60°)	2142.8	10.4	B2/2500		
BH (60°-80°)	278.1	1.4	B1/500		G1/500
BVH (80°-90°)	14.0	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 II Short





REPORT NUMBER: P531599

CATALOG NUMBER: GALN-SA6D-827-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5272.9	5272.9	5272.9	5272.9	5272.9	5272.9	5272.9	5272.9	5272.9	5272.9	5272.9
2.5°	4957.5	5005.2	5012.5	5071.2	5067.5	5166.5	5195.9	5199.5	5265.5	5232.5	5316.9
5°	4818.2	4792.5	4781.5	4884.2	4913.5	5001.5	5074.9	5118.9	5254.5	5302.2	5390.2
7.5°	4693.5	4693.5	4700.9	4792.5	4781.5	4895.2	4972.2	5107.9	5305.9	5346.2	5452.5
10°	4572.5	4528.5	4583.5	4678.9	4759.5	4810.9	4972.2	5100.5	5331.5	5448.9	5595.6
12.5°	4510.2	4532.2	4539.5	4609.2	4697.2	4851.2	4939.2	5151.9	5514.9	5584.6	5742.2
15°	4902.5	4858.5	4752.2	4689.9	4763.2	4836.5	5056.5	5272.9	5610.2	5709.2	5885.2
17.5°	5357.2	5320.5	5232.5	5063.9	4898.9	5034.5	5206.9	5404.9	5712.9	5859.6	6119.9
20°	5951.2	5892.6	5804.6	5474.6	5331.5	5184.9	5368.2	5602.9	5881.6	6013.6	6281.2
22.5°	6658.9	6658.9	6460.9	6061.2	5764.2	5624.9	5701.9	5837.6	6068.6	6248.2	6512.3
25°	7396.0	7374.0	7194.3	6779.9	6277.6	6112.6	6200.6	6295.9	6358.3	6457.3	6633.3
27.5°	8239.3	8111.0	7883.6	7425.3	6981.6	6662.6	6757.9	6673.6	6596.6	6647.9	6900.9
30°	8811.3	8892.0	8602.3	8162.3	7744.3	7388.6	7407.0	7333.6	6981.6	7054.9	7205.3
32.5°	9405.4	9456.7	9295.4	9053.4	8635.3	8221.0	8070.7	8008.3	7744.3	7777.3	7630.6
35°	9900.4	9999.4	9856.4	9750.1	9629.0	9295.4	8881.0	9082.7	8657.3	8576.7	8195.3
37.5°	10355.1	10325.7	10494.4	10384.4	10358.7	10124.1	9669.4	9709.7	9423.7	9405.4	8965.4
40°	10762.1	10769.4	11000.4	11051.8	10949.1	10531.1	9871.1	10190.1	10421.1	10443.1	9878.4
42.5°	11099.4	11198.4	11396.5	11810.8	11656.8	10960.1	10080.1	10428.4	11286.4	11422.1	10743.8
45°	11392.8	11594.5	11840.1	12210.5	12122.5	11568.8	10600.8	10919.8	12210.5	12566.2	11557.8
47.5°	11411.1	11675.1	11942.8	12492.8	12602.8	11895.1	11139.8	11697.1	12943.8	13328.9	12151.8
50°	11337.8	11477.1	12012.5	12610.2	12859.5	12426.8	11895.1	12349.8	13655.2	13897.2	12452.5
52.5°	10468.7	10575.1	11649.5	12720.2	13321.5	13028.2	12896.2	13259.2	14381.2	14560.9	12734.8
55°	8727.0	8708.7	10186.4	12166.5	13534.2	13919.2	13838.5	13966.9	15220.9	15382.3	12804.5
57.5°	5969.6	6303.3	7579.3	10131.4	12232.5	13710.2	13794.5	13581.9	14241.9	14304.2	11161.8
60°	3219.5	3358.8	4385.5	6761.6	9313.7	11172.8	11392.8	11007.8	10956.4	10780.4	7968.0
62.5°	1279.7	1349.4	1932.4	3347.8	5074.9	6790.9	7264.0	7106.3	6768.9	6306.9	4125.2
65°	608.7	652.7	960.7	1565.7	2251.4	2830.8	3303.8	3450.5	2544.8	2291.8	1360.4
67.5°	414.3	447.4	700.4	894.7	803.0	839.7	1092.7	1015.7	597.7	509.7	377.7
70°	315.3	337.3	561.0	608.7	359.3	253.0	282.3	264.0	245.7	249.3	245.7
72.5°	223.7	242.0	410.7	359.3	157.7	117.3	150.3	179.7	179.7	179.7	176.0
75°	135.7	154.0	238.3	139.3	62.3	62.3	95.3	121.0	128.3	132.0	124.7
77.5°	69.7	88.0	80.7	40.3	40.3	47.7	69.7	84.3	91.7	91.7	88.0
80°	14.7	14.7	14.7	22.0	40.3	51.3	69.7	77.0	88.0	88.0	80.7
82.5°	0.0	3.7	11.0	22.0	36.7	47.7	66.0	77.0	88.0	91.7	84.3
85°	0.0	3.7	7.3	14.7	25.7	29.3	25.7	22.0	22.0	22.0	22.0
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



REPORT NUMBER: P531599

CATALOG NUMBER: GALN-SA6D-827-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5272.9	5272.9	5272.9	5272.9	5272.9	5272.9	5272.9	5272.9	5272.9	5272.9	5272.9
2.5°	5324.2	5335.2	5316.9	5313.2	5298.5	5342.5	5236.2	5210.5	5276.5	5214.2	5228.9
5°	5393.9	5419.5	5386.5	5331.5	5250.9	5126.2	5019.9	4880.5	4814.5	4766.9	4759.5
7.5°	5445.2	5463.6	5430.5	5254.5	5012.5	4697.2	4462.5	4290.2	4154.5	4114.2	4048.2
10°	5654.2	5657.9	5492.9	5104.2	4631.2	4216.8	3857.5	3593.5	3457.8	3373.5	3336.8
12.5°	5793.6	5786.2	5452.5	4807.2	4176.5	3626.5	3215.8	2896.8	2772.1	2731.8	2706.1
15°	5969.6	5929.2	5357.2	4502.8	3589.8	2995.8	2625.4	2405.4	2394.4	2368.8	2394.4
17.5°	6108.9	5995.2	5217.9	3949.2	3028.8	2467.8	2225.8	2240.4	2269.8	2295.4	2299.1
20°	6336.3	6101.6	4898.9	3465.1	2508.1	2115.8	2112.1	2178.1	2251.4	2280.8	2310.1
22.5°	6508.6	6145.6	4557.8	2948.1	2082.7	1972.7	2035.1	2134.1	2189.1	2218.4	2262.4
25°	6570.9	6024.6	4103.2	2431.1	1877.4	1906.7	2002.1	2068.1	2137.8	2170.8	2152.4
27.5°	6633.3	5962.2	3560.5	2002.1	1767.4	1862.7	1943.4	2009.4	2031.4	2075.4	2104.8
30°	6783.6	5745.9	3072.8	1730.7	1712.4	1833.4	1892.1	1914.1	1972.7	1998.4	1998.4
32.5°	6904.6	5661.6	2555.8	1602.4	1705.1	1848.1	1855.4	1855.4	1862.7	1844.4	1837.1
35°	7154.0	5371.9	2093.7	1525.4	1701.4	1851.7	1870.1	1807.7	1639.1	1573.1	1554.7
37.5°	7462.0	5184.9	1752.7	1507.1	1727.1	1895.7	1925.1	1690.4	1470.4	1364.1	1345.7
40°	7836.0	5052.9	1529.1	1499.7	1785.7	1998.4	1910.4	1598.7	1312.7	1158.7	1151.4
42.5°	8272.3	4931.9	1378.7	1496.1	1859.1	2104.8	1895.7	1521.7	1151.4	1048.7	1063.4
45°	8620.7	4865.9	1276.1	1470.4	1884.7	2167.1	1906.7	1386.1	1085.4	1019.4	1026.7
47.5°	8892.0	4726.5	1191.7	1426.4	1881.1	2189.1	1807.7	1331.1	1052.4	1070.7	1089.0
50°	8899.4	4539.5	1085.4	1331.1	1826.1	2148.8	1694.1	1279.7	1045.0	1122.0	1158.7
52.5°	8800.3	4275.5	971.7	1195.4	1697.7	2009.4	1591.4	1257.7	1012.0	1004.7	1048.7
55°	8448.3	3780.5	781.0	968.0	1433.7	1657.4	1499.7	1217.4	913.0	828.7	836.0
57.5°	6827.6	2709.8	575.7	693.0	1015.7	1213.7	1353.1	1199.0	821.4	704.0	707.7
60°	4227.8	1536.4	421.7	473.0	627.0	737.0	1096.4	1114.7	733.4	594.0	586.7
62.5°	2170.8	759.0	326.3	333.7	385.0	432.7	751.7	935.0	663.7	564.7	564.7
65°	726.0	374.0	286.0	256.7	256.7	267.7	454.7	649.0	561.0	473.0	473.0
67.5°	311.7	278.7	249.3	223.7	205.3	194.3	256.7	377.7	418.0	359.3	344.7
70°	242.0	234.7	216.3	187.0	161.3	146.7	150.3	194.3	238.3	231.0	223.7
72.5°	179.7	179.7	172.3	146.7	124.7	106.3	99.0	102.7	113.7	117.3	121.0
75°	124.7	128.3	128.3	113.7	91.7	77.0	66.0	55.0	44.0	36.7	33.0
77.5°	84.3	88.0	95.3	84.3	69.7	51.3	40.3	29.3	18.3	7.3	7.3
80°	73.3	84.3	91.7	84.3	73.3	55.0	40.3	22.0	11.0	0.0	0.0
82.5°	77.0	84.3	95.3	80.7	69.7	51.3	40.3	25.7	11.0	3.7	0.0
85°	18.3	18.3	22.0	25.7	33.0	36.7	29.3	18.3	11.0	3.7	0.0
87.5°	7.3	7.3	7.3	7.3	7.3	3.7	3.7	3.7	3.7	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)