

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: P531209

Luminaire Tested: **GALN-SA6C-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531209
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-SA6C-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA 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: 21204 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

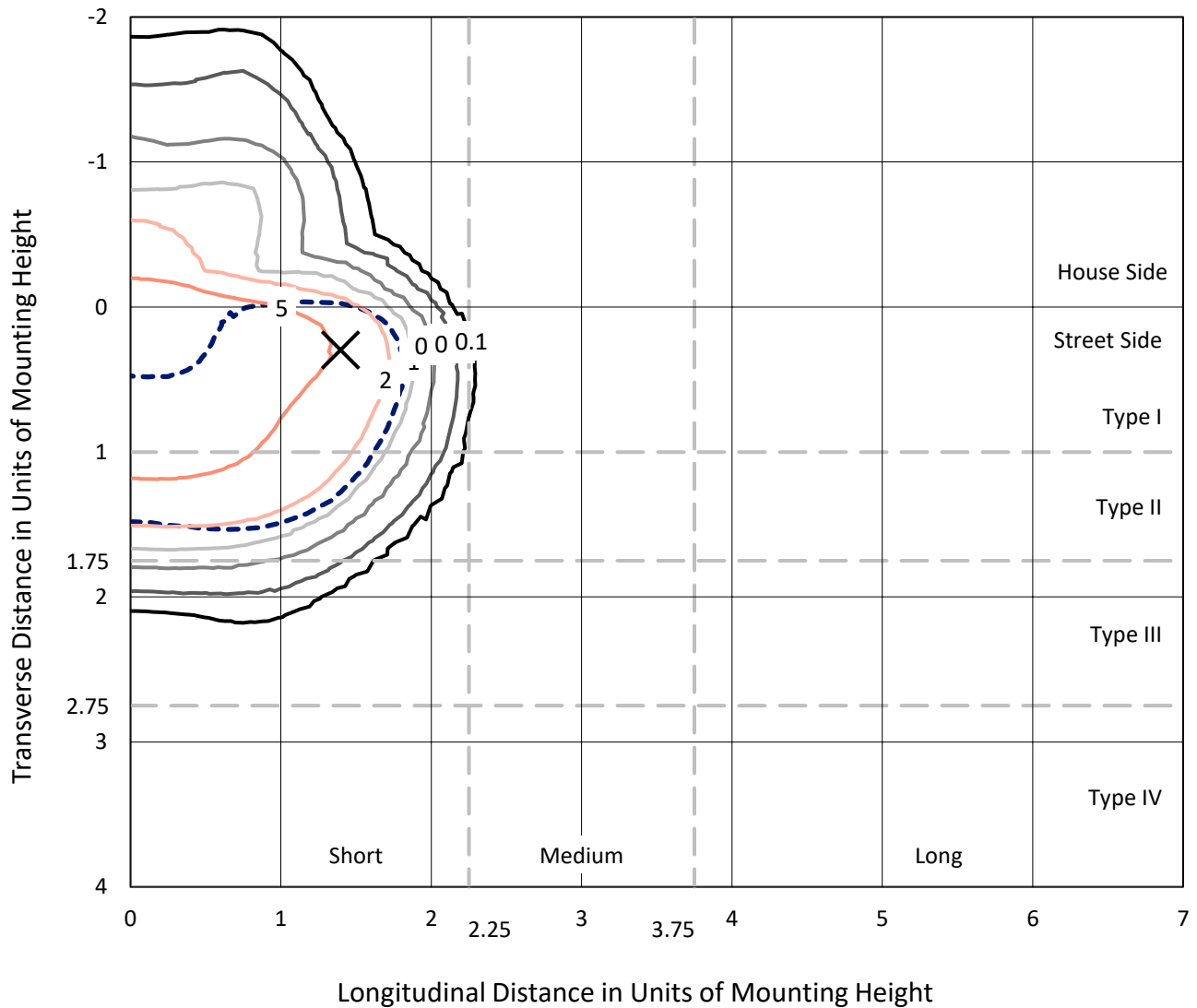
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

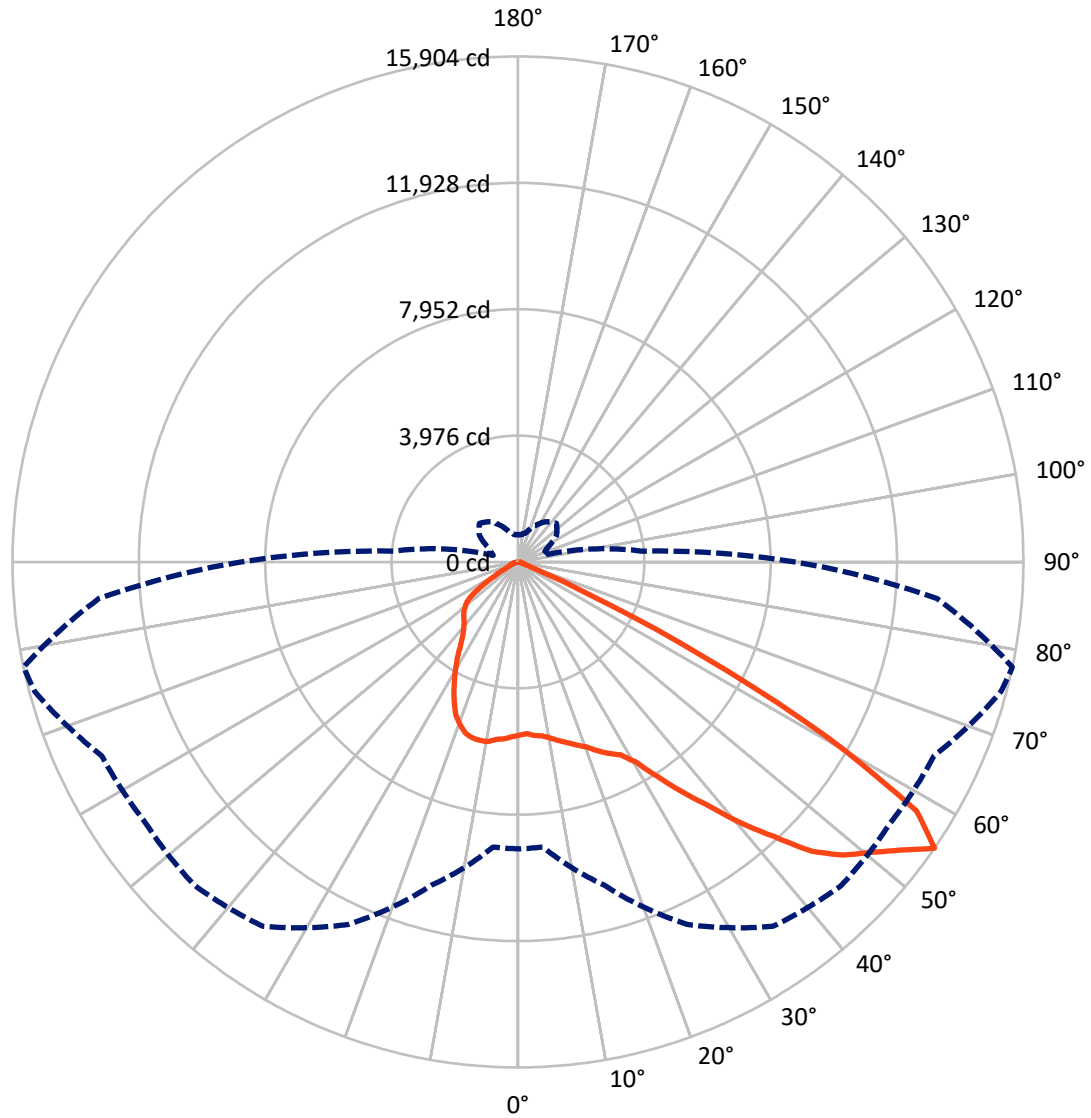
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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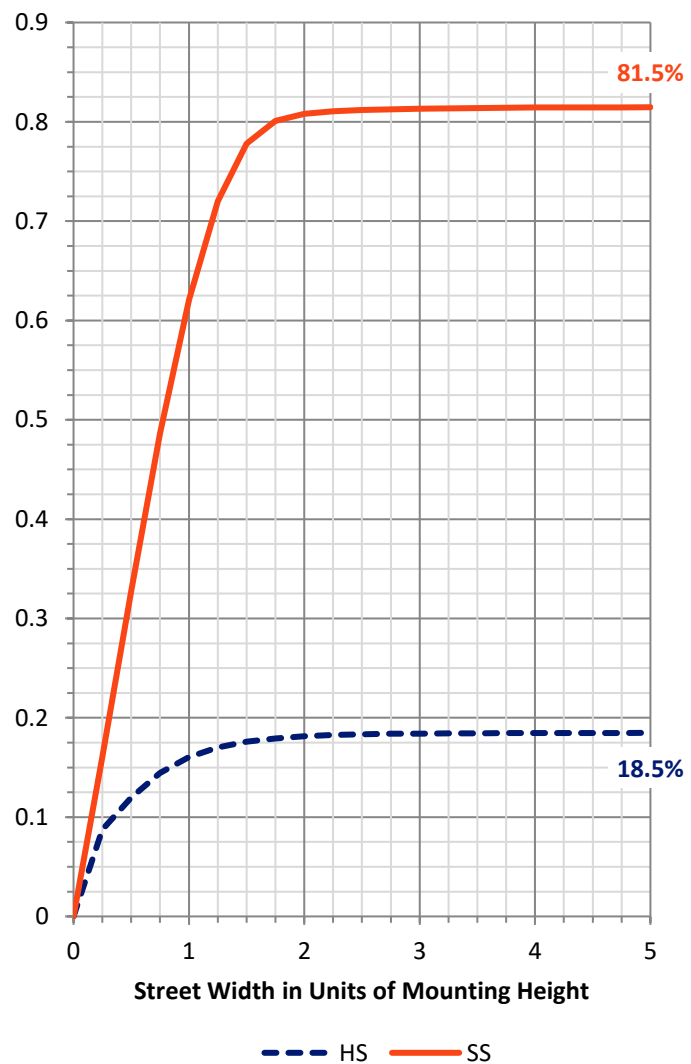
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3938.4	0.0	3938.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17265.6	0.0	17265.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	21204.0	0.0	21204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.1	2.3
10°-20°	1286.5	6.1
20°-30°	2255.0	10.6
30°-40°	3718.2	17.5
40°-50°	5410.4	25.5
50°-60°	6130.6	28.9
60°-70°	1752.8	8.3
70°-80°	136.1	0.6
80°-90°	28.3	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°	21204.0	100.0
0°-180°	21204.0	100.0

Coefficient of Utilization



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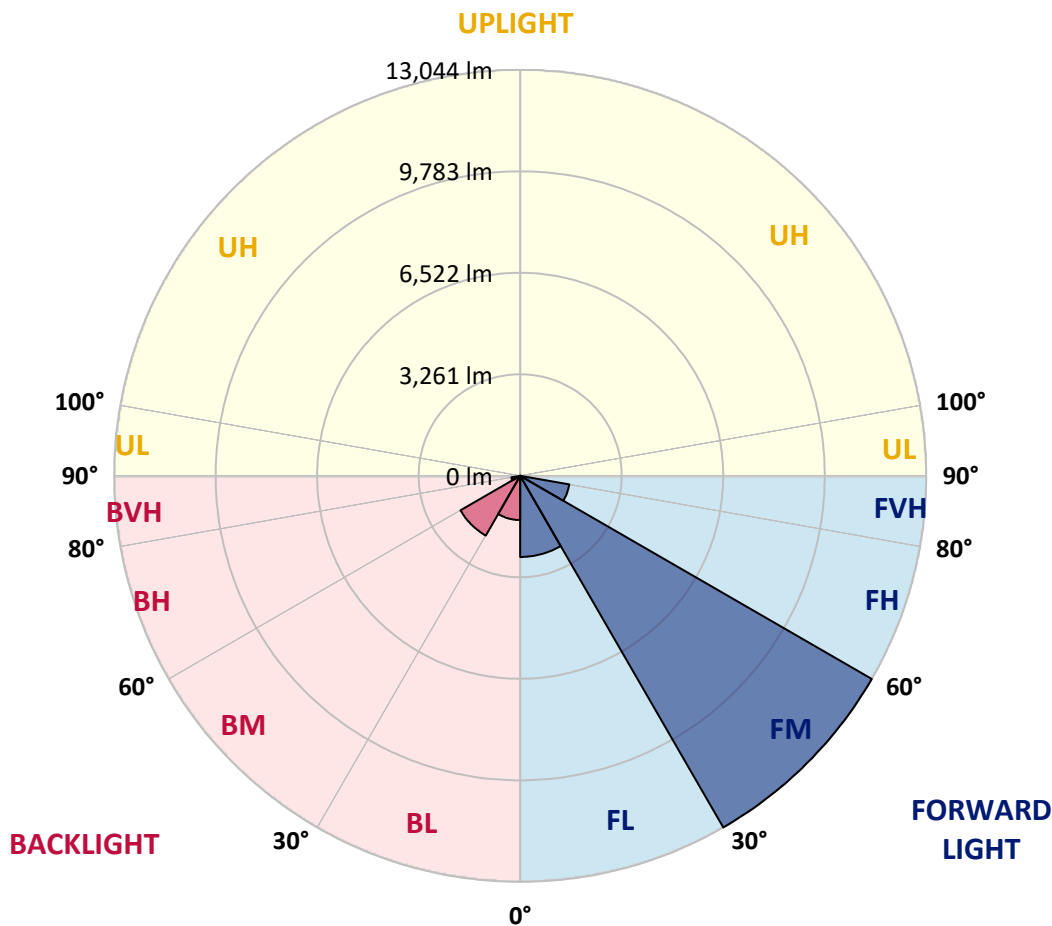
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2606.6	12.3			
FM (30°-60°)	13043.8	61.5			
FH (60°-80°)	1601.5	7.6			G1/1800
FVH (80°-90°)	13.8	0.1			G1/100
BL (0°-30°)	1421.0	6.7	B3/2500		
BM (30°-60°)	2215.4	10.4	B2/2500		
BH (60°-80°)	287.5	1.4	B1/500		G1/500
BVH (80°-90°)	14.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6
2.5°	5125.5	5174.8	5182.4	5243.1	5239.3	5341.6	5371.9	5375.7	5444.0	5409.9	5497.1
5°	4981.5	4954.9	4943.6	5049.7	5080.0	5171.0	5246.8	5292.3	5432.6	5481.9	5572.9
7.5°	4852.6	4852.6	4860.2	4954.9	4943.6	5061.1	5140.7	5281.0	5485.7	5527.4	5637.3
10°	4727.5	4682.0	4738.8	4837.4	4920.8	4973.9	5140.7	5273.4	5512.2	5633.5	5785.2
12.5°	4663.0	4685.8	4693.3	4765.4	4856.4	5015.6	5106.6	5326.5	5701.8	5773.8	5936.8
15°	5068.7	5023.2	4913.2	4848.8	4924.6	5000.4	5227.9	5451.6	5800.3	5902.7	6084.7
17.5°	5538.8	5500.8	5409.9	5235.5	5064.9	5205.1	5383.3	5588.0	5906.5	6058.1	6327.3
20°	6152.9	6092.3	6001.3	5660.1	5512.2	5360.6	5550.1	5792.8	6080.9	6217.4	6494.1
22.5°	6884.6	6884.6	6679.9	6266.6	5959.6	5815.5	5895.1	6035.4	6274.2	6460.0	6732.9
25°	7646.6	7623.8	7438.1	7009.7	6490.3	6319.7	6410.7	6509.3	6573.7	6676.1	6858.0
27.5°	8518.5	8385.9	8150.8	7676.9	7218.2	6888.4	6986.9	6899.8	6820.1	6873.2	7134.8
30°	9109.9	9193.3	8893.9	8438.9	8006.7	7639.0	7658.0	7582.1	7218.2	7294.0	7449.5
32.5°	9724.1	9777.2	9610.4	9360.2	8928.0	8499.6	8344.1	8279.7	8006.7	8040.9	7889.2
35°	10235.9	10338.3	10190.4	10080.5	9955.4	9610.4	9182.0	9390.5	8950.7	8867.3	8473.0
37.5°	10706.0	10675.7	10850.0	10736.3	10709.8	10467.1	9997.1	10038.8	9743.1	9724.1	9269.2
40°	11126.8	11134.4	11373.2	11426.3	11320.1	10888.0	10205.6	10535.4	10774.2	10797.0	10213.1
42.5°	11475.6	11577.9	11782.7	12211.0	12051.8	11331.5	10421.7	10781.8	11668.9	11809.2	11107.8
45°	11778.9	11987.4	12241.4	12624.3	12533.3	11960.8	10960.0	11289.8	12624.3	12992.0	11949.5
47.5°	11797.8	12070.8	12347.5	12916.2	13029.9	12298.2	11517.3	12093.5	13382.5	13780.5	12563.6
50°	11722.0	11866.1	12419.6	13037.5	13295.3	12847.9	12298.2	12768.3	14118.0	14368.2	12874.5
52.5°	10823.5	10933.5	12044.2	13151.2	13773.0	13469.7	13333.2	13708.5	14868.6	15054.3	13166.4
55°	9022.8	9003.8	10531.6	12578.8	13992.8	14390.9	14307.5	14440.2	15736.7	15903.5	13238.4
57.5°	6171.9	6516.9	7836.1	10474.7	12647.0	14174.8	14262.0	14042.1	14724.5	14789.0	11540.0
60°	3328.6	3472.6	4534.1	6990.7	9629.3	11551.4	11778.9	11380.8	11327.7	11145.8	8238.0
62.5°	1323.1	1395.1	1997.9	3461.2	5246.8	7021.1	7510.1	7347.1	6998.3	6520.6	4265.0
65°	629.3	674.8	993.3	1618.8	2327.7	2926.7	3415.8	3567.4	2631.0	2369.4	1406.5
67.5°	428.4	462.5	724.1	925.0	830.2	868.2	1129.7	1050.1	617.9	527.0	390.5
70°	326.0	348.8	580.0	629.3	371.5	261.6	291.9	273.0	254.0	257.8	254.0
72.5°	231.3	250.2	424.6	371.5	163.0	121.3	155.4	185.8	185.8	185.8	182.0
75°	140.3	159.2	246.4	144.1	64.4	64.4	98.6	125.1	132.7	136.5	128.9
77.5°	72.0	91.0	83.4	41.7	41.7	49.3	72.0	87.2	94.8	94.8	91.0
80°	15.2	15.2	15.2	22.7	41.7	53.1	72.0	79.6	91.0	91.0	83.4
82.5°	0.0	3.8	11.4	22.7	37.9	49.3	68.2	79.6	91.0	94.8	87.2
85°	0.0	3.8	7.6	15.2	26.5	30.3	26.5	22.7	22.7	22.7	22.7
87.5°	0.0	0.0	3.8	3.8	3.8	7.6	7.6	7.6	7.6	7.6	7.6
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°	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6	5451.6
2.5°	5504.6	5516.0	5497.1	5493.3	5478.1	5523.6	5413.7	5387.1	5455.4	5390.9	5406.1
5°	5576.7	5603.2	5569.1	5512.2	5428.8	5299.9	5190.0	5045.9	4977.7	4928.4	4920.8
7.5°	5629.7	5648.7	5614.6	5432.6	5182.4	4856.4	4613.7	4435.6	4295.3	4253.6	4185.3
10°	5845.8	5849.6	5679.0	5277.2	4788.1	4359.7	3988.2	3715.3	3575.0	3487.8	3449.9
12.5°	5989.9	5982.3	5637.3	4970.1	4318.0	3749.4	3324.8	2994.9	2866.1	2824.3	2797.8
15°	6171.9	6130.2	5538.8	4655.4	3711.5	3097.3	2714.4	2486.9	2475.6	2449.0	2475.6
17.5°	6315.9	6198.4	5394.7	4083.0	3131.4	2551.4	2301.2	2316.3	2346.7	2373.2	2377.0
20°	6551.0	6308.3	5064.9	3582.6	2593.1	2187.4	2183.7	2251.9	2327.7	2358.0	2388.4
22.5°	6729.2	6353.8	4712.3	3048.0	2153.3	2039.6	2104.0	2206.4	2263.3	2293.6	2339.1
25°	6793.6	6228.7	4242.2	2513.5	1941.0	1971.4	2069.9	2138.2	2210.2	2244.3	2225.4
27.5°	6858.0	6164.3	3681.1	2069.9	1827.3	1925.9	2009.3	2077.5	2100.3	2145.7	2176.1
30°	7013.5	5940.6	3176.9	1789.4	1770.4	1895.5	1956.2	1978.9	2039.6	2066.1	2066.1
32.5°	7138.6	5853.4	2642.4	1656.7	1762.8	1910.7	1918.3	1918.3	1925.9	1906.9	1899.3
35°	7396.4	5553.9	2164.7	1577.1	1759.1	1914.5	1933.4	1869.0	1694.6	1626.4	1607.4
37.5°	7714.8	5360.6	1812.1	1558.1	1785.6	1960.0	1990.3	1747.7	1520.2	1410.3	1391.3
40°	8101.5	5224.1	1580.9	1550.5	1846.3	2066.1	1975.1	1652.9	1357.2	1198.0	1190.4
42.5°	8552.7	5099.0	1425.4	1546.8	1922.1	2176.1	1960.0	1573.3	1190.4	1084.2	1099.4
45°	8912.8	5030.8	1319.3	1520.2	1948.6	2240.5	1971.4	1433.0	1122.2	1053.9	1061.5
47.5°	9193.3	4886.7	1232.1	1474.7	1944.8	2263.3	1869.0	1376.2	1088.0	1107.0	1125.9
50°	9200.9	4693.3	1122.2	1376.2	1888.0	2221.6	1751.5	1323.1	1080.5	1160.1	1198.0
52.5°	9098.6	4420.4	1004.6	1235.9	1755.3	2077.5	1645.3	1300.3	1046.3	1038.8	1084.2
55°	8734.6	3908.6	807.5	1000.8	1482.3	1713.6	1550.5	1258.6	944.0	856.8	864.4
57.5°	7059.0	2801.6	595.2	716.5	1050.1	1254.8	1398.9	1239.7	849.2	727.9	731.7
60°	4371.1	1588.5	436.0	489.0	648.3	762.0	1133.5	1152.5	758.2	614.2	606.6
62.5°	2244.3	784.8	337.4	345.0	398.1	447.3	777.2	966.7	686.2	583.8	583.8
65°	750.6	386.7	295.7	265.4	265.4	276.7	470.1	671.0	580.0	489.0	489.0
67.5°	322.2	288.1	257.8	231.3	212.3	200.9	265.4	390.5	432.2	371.5	356.4
70°	250.2	242.6	223.7	193.3	166.8	151.6	155.4	200.9	246.4	238.8	231.3
72.5°	185.8	185.8	178.2	151.6	128.9	109.9	102.4	106.2	117.5	121.3	125.1
75°	128.9	132.7	132.7	117.5	94.8	79.6	68.2	56.9	45.5	37.9	34.1
77.5°	87.2	91.0	98.6	87.2	72.0	53.1	41.7	30.3	19.0	7.6	7.6
80°	75.8	87.2	94.8	87.2	75.8	56.9	41.7	22.7	11.4	0.0	0.0
82.5°	79.6	87.2	98.6	83.4	72.0	53.1	41.7	26.5	11.4	3.8	0.0
85°	19.0	19.0	22.7	26.5	34.1	37.9	30.3	19.0	11.4	3.8	0.0
87.5°	7.6	7.6	7.6	7.6	7.6	3.8	3.8	3.8	3.8	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)