

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: P528399

Luminaire Tested: **GALN-SA3C-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528399
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-SA3C-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA 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: 10482 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

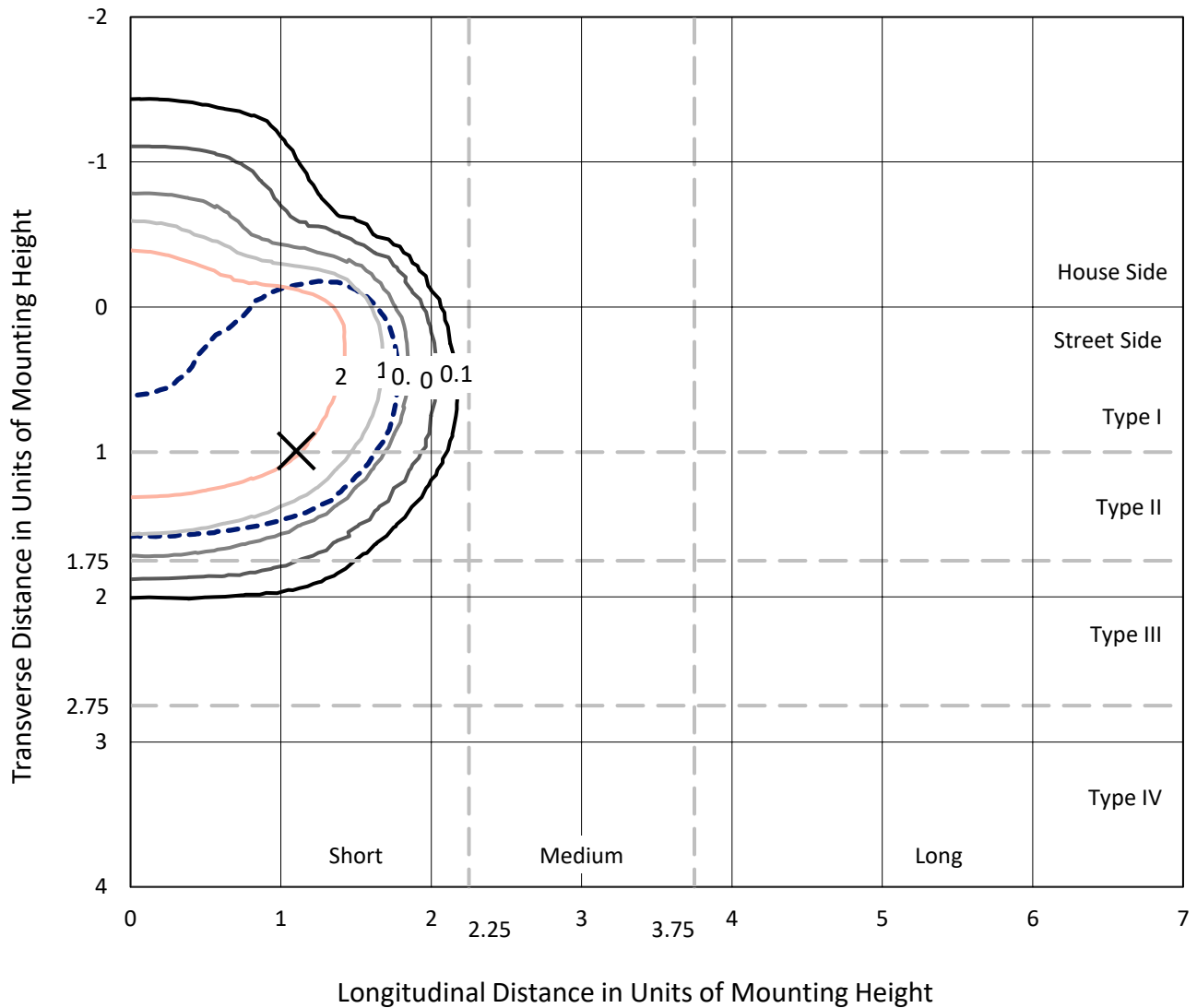
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

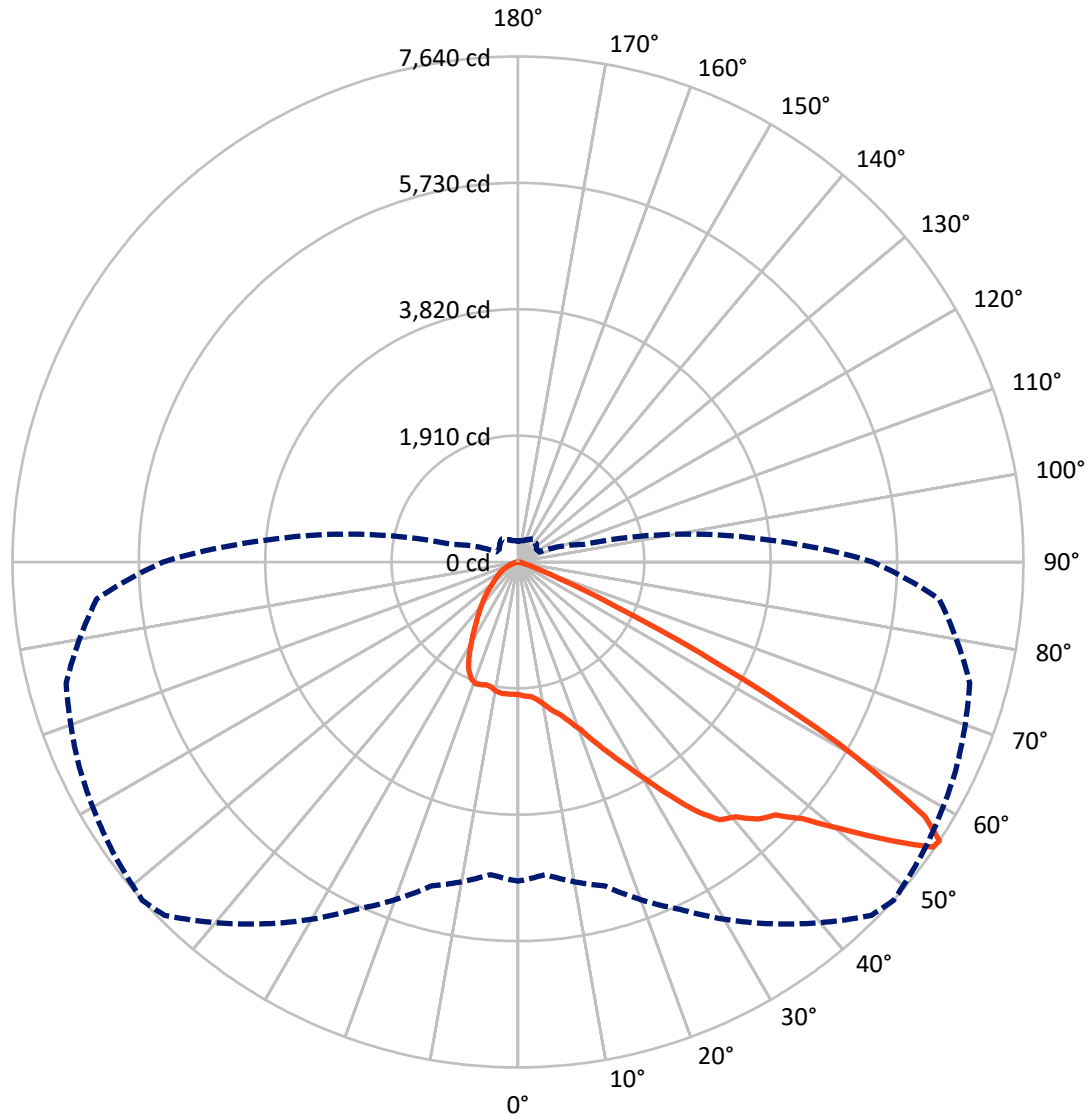
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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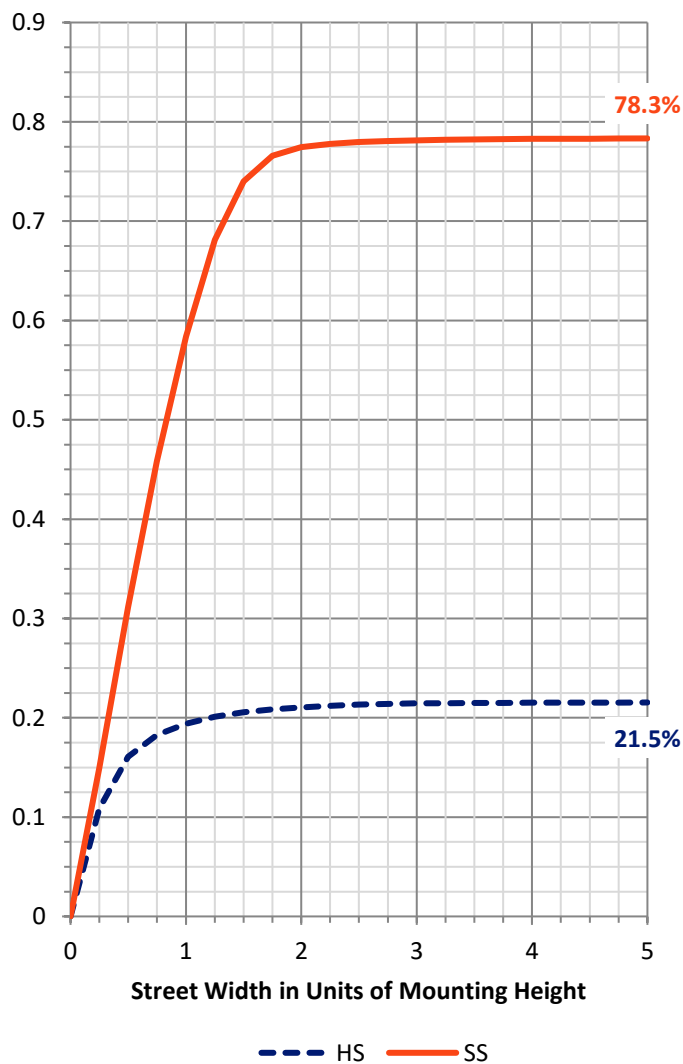
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2279.6	0.0	2279.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8202.4	0.0	8202.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	10482.0	0.0	10482.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	1.9
10°-20°	623.3	5.9
20°-30°	1130.5	10.8
30°-40°	1775.7	16.9
40°-50°	2590.5	24.7
50°-60°	3121.0	29.8
60°-70°	913.8	8.7
70°-80°	115.9	1.1
80°-90°	16.3	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°	10482.0	100.0
0°-180°	10482.0	100.0



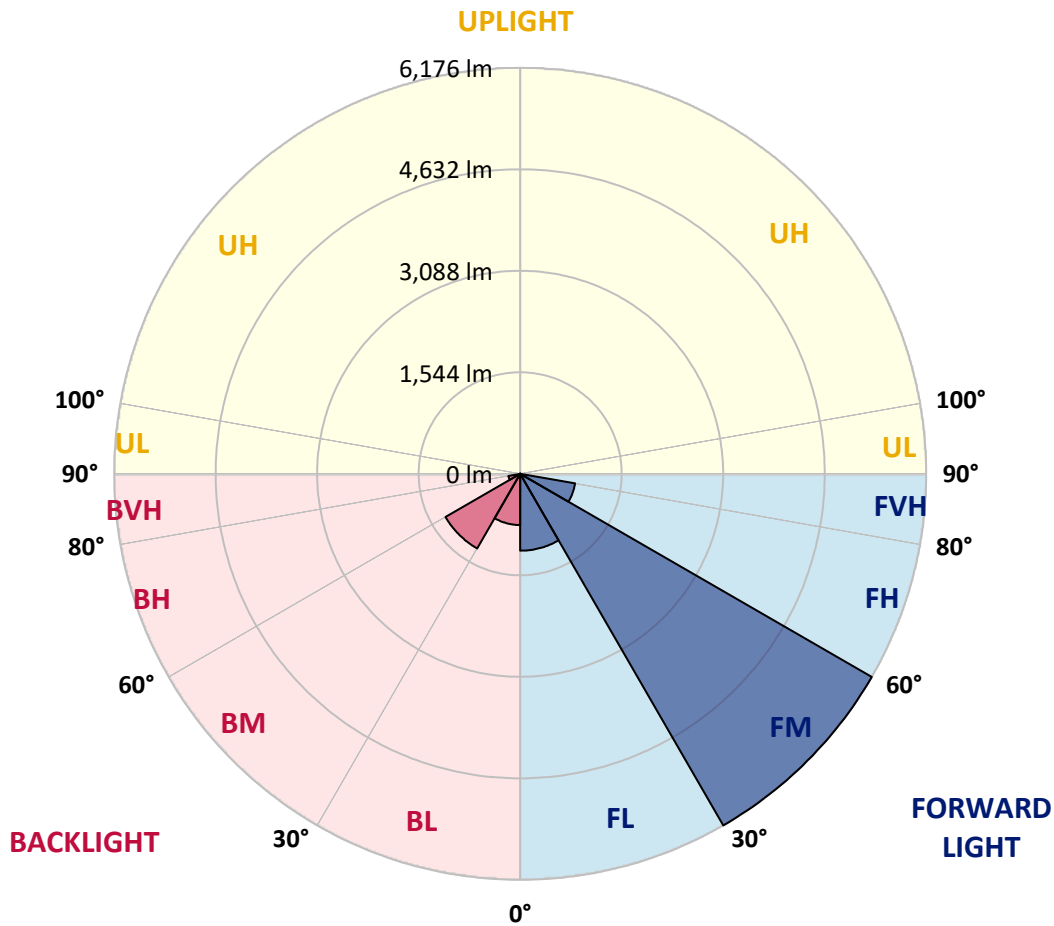
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.6	11.2			
FM (30°-60°)	6176.0	58.9			
FH (60°-80°)	848.6	8.1			G1/1800
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	779.2	7.4	B2/1000		
BM (30°-60°)	1311.2	12.5	B2/2500		
BH (60°-80°)	181.1	1.7	B1/500		G1/500
BVH (80°-90°)	8.1	0.1			G0/10
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°	48°	55°	65°	75°	85°
0°	2002.1	2002.1	2002.1	2002.1	2002.1	2002.1	2002.1	2002.1	2002.1	2002.1	2002.1
2.5°	2038.3	2028.8	2028.8	2013.5	2030.7	2023.1	2028.8	2009.7	2028.8	2000.2	2023.1
5°	2047.9	2049.8	2042.1	2051.7	2051.7	2063.1	2044.1	2061.2	2070.8	2049.8	2040.2
7.5°	2097.5	2101.3	2099.4	2091.8	2107.0	2105.1	2103.2	2089.9	2093.7	2086.0	2074.6
10°	2194.8	2192.9	2202.5	2183.4	2171.9	2185.3	2189.1	2168.1	2152.8	2147.1	2110.9
12.5°	2336.1	2313.2	2299.8	2280.7	2286.4	2267.4	2301.7	2265.4	2257.8	2223.5	2187.2
15°	2450.6	2446.8	2448.7	2418.1	2383.8	2391.4	2391.4	2372.3	2360.9	2318.9	2267.4
17.5°	2685.3	2605.2	2622.3	2584.2	2555.5	2553.6	2536.5	2540.3	2509.7	2421.9	2343.7
20°	2868.5	2834.2	2807.5	2742.6	2698.7	2712.0	2704.4	2685.3	2675.8	2561.3	2450.6
22.5°	3032.7	3044.1	3000.2	2983.1	2922.0	2927.7	2943.0	2925.8	2853.3	2734.9	2570.8
25°	3263.6	3250.3	3191.1	3170.1	3112.8	3133.8	3193.0	3179.6	3133.8	2920.1	2664.3
27.5°	3536.5	3490.7	3502.2	3406.8	3351.4	3410.6	3481.2	3548.0	3418.2	3137.7	2775.0
30°	3729.3	3681.6	3677.8	3674.0	3660.6	3729.3	3811.4	3872.4	3767.5	3355.2	2958.2
32.5°	3824.7	3836.2	3868.6	3857.2	3973.6	4114.8	4200.7	4288.5	4156.8	3710.2	3200.6
35°	4078.6	4006.0	4078.6	4086.2	4206.4	4506.1	4614.9	4824.8	4792.4	4212.2	3496.5
37.5°	4227.4	4221.7	4231.3	4303.8	4420.2	4790.5	4945.0	5107.3	5046.2	4513.7	3864.8
40°	4473.6	4488.9	4487.0	4542.3	4670.2	5004.2	5067.2	5198.9	5204.6	4931.7	4406.8
42.5°	4868.7	4807.6	4767.6	4824.8	5004.2	5189.3	5315.3	5288.6	5477.5	5439.4	5103.5
45°	5223.7	5260.0	5200.8	5296.2	5361.1	5460.4	5456.5	5513.8	5754.3	5935.6	5628.3
47.5°	5555.8	5578.7	5607.3	5672.2	5813.4	5828.7	5796.3	5771.4	6103.5	6290.6	6034.8
50°	5754.3	5775.3	5908.9	6025.3	6288.7	6323.0	6342.1	6279.1	6504.3	6525.3	6418.4
52.5°	5700.8	5723.7	5910.8	6294.4	6714.3	7029.2	6971.9	6865.0	6851.7	6933.8	6773.4
55°	5227.5	5206.5	5464.2	6061.5	6847.9	7603.7	7611.3	7498.7	7283.0	7227.7	6720.0
56°	4824.8	4742.7	5071.0	5792.4	6676.1	7554.0	7639.9	7519.7	7317.4	7069.3	6389.8
57.5°	3952.6	4030.9	4357.2	4954.6	6082.5	7197.1	7246.8	7218.1	7065.4	6649.4	5622.6
60°	2179.6	2317.0	2605.2	3336.1	4330.5	5523.3	5563.4	5796.3	5824.9	5092.0	3868.6
62.5°	925.6	910.4	1210.0	1748.2	2465.8	3334.2	3408.7	3647.2	3691.1	2935.3	1941.0
65°	376.0	397.0	547.8	879.8	1303.5	1519.2	1624.2	1702.4	1847.5	1211.9	715.7
67.5°	248.1	246.2	322.5	501.9	702.3	677.5	677.5	715.7	662.3	494.3	309.2
70°	177.5	183.2	230.9	347.4	437.1	324.5	311.1	297.7	337.8	326.4	250.0
72.5°	116.4	124.1	154.6	208.0	227.1	177.5	177.5	213.8	278.6	263.4	204.2
75°	76.3	78.3	95.4	120.2	112.6	91.6	101.2	143.1	202.3	194.7	145.0
77.5°	51.5	53.4	64.9	78.3	63.0	51.5	55.3	72.5	99.2	99.2	76.3
80°	19.1	21.0	26.7	24.8	28.6	36.3	40.1	49.6	59.2	59.2	51.5
82.5°	0.0	1.9	5.7	13.4	21.0	28.6	32.4	38.2	43.9	49.6	47.7
85°	0.0	1.9	5.7	9.5	15.3	17.2	19.1	13.4	11.5	11.5	9.5
87.5°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	3.8	1.9	1.9
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°	2002.1	2002.1	2002.1	2002.1	2002.1	2002.1	2002.1	2002.1	2002.1	2002.1	2002.1
2.5°	2002.1	2000.2	2000.2	1994.4	2005.9	2000.2	2004.0	2002.1	1977.3	1996.3	1983.0
5°	2023.1	2036.4	2015.4	2011.6	1996.3	2002.1	2002.1	1983.0	2000.2	1998.2	1994.4
7.5°	2076.5	2053.6	2030.7	2007.8	2004.0	1998.2	1977.3	1969.6	1983.0	1967.7	1990.6
10°	2099.4	2103.2	2068.9	2038.3	2009.7	1969.6	1941.0	1923.8	1902.8	1925.7	1939.1
12.5°	2204.4	2166.2	2107.0	2059.3	1962.0	1921.9	1893.3	1885.6	1921.9	1929.5	1916.2
15°	2240.6	2234.9	2158.6	2051.7	1950.5	1902.8	1908.5	1893.3	1897.1	1878.0	1881.8
17.5°	2315.1	2250.2	2160.5	2026.9	1948.6	1937.2	1902.8	1841.7	1807.4	1792.1	1805.5
20°	2397.1	2334.2	2204.4	2036.4	1965.8	1935.3	1822.7	1748.2	1677.6	1639.4	1641.4
22.5°	2469.7	2391.4	2185.3	2040.2	1981.1	1855.1	1719.6	1572.6	1484.9	1425.7	1427.6
25°	2557.5	2446.8	2192.9	2047.9	1941.0	1727.2	1532.6	1389.4	1284.5	1244.4	1257.7
27.5°	2607.1	2481.1	2234.9	2065.0	1836.0	1545.9	1336.0	1202.4	1141.3	1122.2	1120.3
30°	2755.9	2557.5	2286.4	2030.7	1660.4	1351.3	1156.6	1074.5	1015.3	998.2	1002.0
32.5°	2977.3	2696.8	2353.2	1941.0	1481.0	1177.6	1040.2	979.1	923.7	891.3	887.5
35°	3162.5	2935.3	2423.9	1801.7	1273.0	1044.0	958.1	881.7	797.8	761.5	752.0
37.5°	3515.5	3204.5	2408.6	1591.7	1074.5	944.7	870.3	776.8	704.3	654.6	648.9
40°	3985.0	3519.4	2334.2	1336.0	927.6	856.9	776.8	687.1	597.4	555.4	551.6
42.5°	4555.7	3904.9	2198.6	1076.4	780.6	769.1	696.6	593.6	513.4	482.9	484.8
45°	5019.5	4235.1	2061.2	864.6	671.8	683.3	620.3	522.9	467.6	442.8	442.8
47.5°	5431.7	4458.4	1912.4	713.8	570.7	597.4	542.0	484.8	437.1	418.0	414.2
50°	5828.7	4685.5	1763.5	578.3	486.7	513.4	507.7	461.9	423.7	400.8	402.7
52.5°	6076.8	4721.7	1574.6	473.3	425.6	456.1	475.2	433.2	391.3	377.9	374.1
55°	5773.4	4254.2	1221.5	389.3	360.7	400.8	437.1	389.3	356.9	334.0	332.1
56°	5364.9	3803.7	1021.1	358.8	341.6	385.5	423.7	372.2	335.9	322.5	313.0
57.5°	4542.3	3112.8	753.9	318.7	316.8	358.8	402.7	355.0	313.0	301.6	301.6
60°	2832.3	1752.0	456.1	267.2	274.8	318.7	362.6	316.8	278.6	278.6	284.4
62.5°	1290.2	729.1	276.7	227.1	236.7	274.8	322.5	286.3	265.3	286.3	290.1
65°	439.0	314.9	200.4	181.3	187.0	227.1	276.7	290.1	288.2	301.6	309.2
67.5°	246.2	202.3	168.0	150.8	147.0	168.0	227.1	290.1	278.6	272.9	276.7
70°	208.0	171.8	148.9	133.6	127.9	135.5	175.6	219.5	196.6	190.9	187.0
72.5°	168.0	143.1	129.8	120.2	103.1	87.8	80.2	84.0	93.5	99.2	108.8
75°	118.3	108.8	108.8	97.3	74.4	55.3	43.9	36.3	24.8	17.2	19.1
77.5°	66.8	66.8	68.7	59.2	47.7	36.3	26.7	19.1	9.5	3.8	1.9
80°	45.8	49.6	53.4	47.7	40.1	32.4	22.9	13.4	5.7	0.0	0.0
82.5°	45.8	51.5	55.3	47.7	40.1	30.5	22.9	13.4	5.7	1.9	0.0
85°	9.5	11.5	13.4	15.3	22.9	22.9	17.2	11.5	5.7	1.9	0.0
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	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)