

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: P527985

Luminaire Tested: **GALN-SA3A-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527985
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-SA3A-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA 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: 7734 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

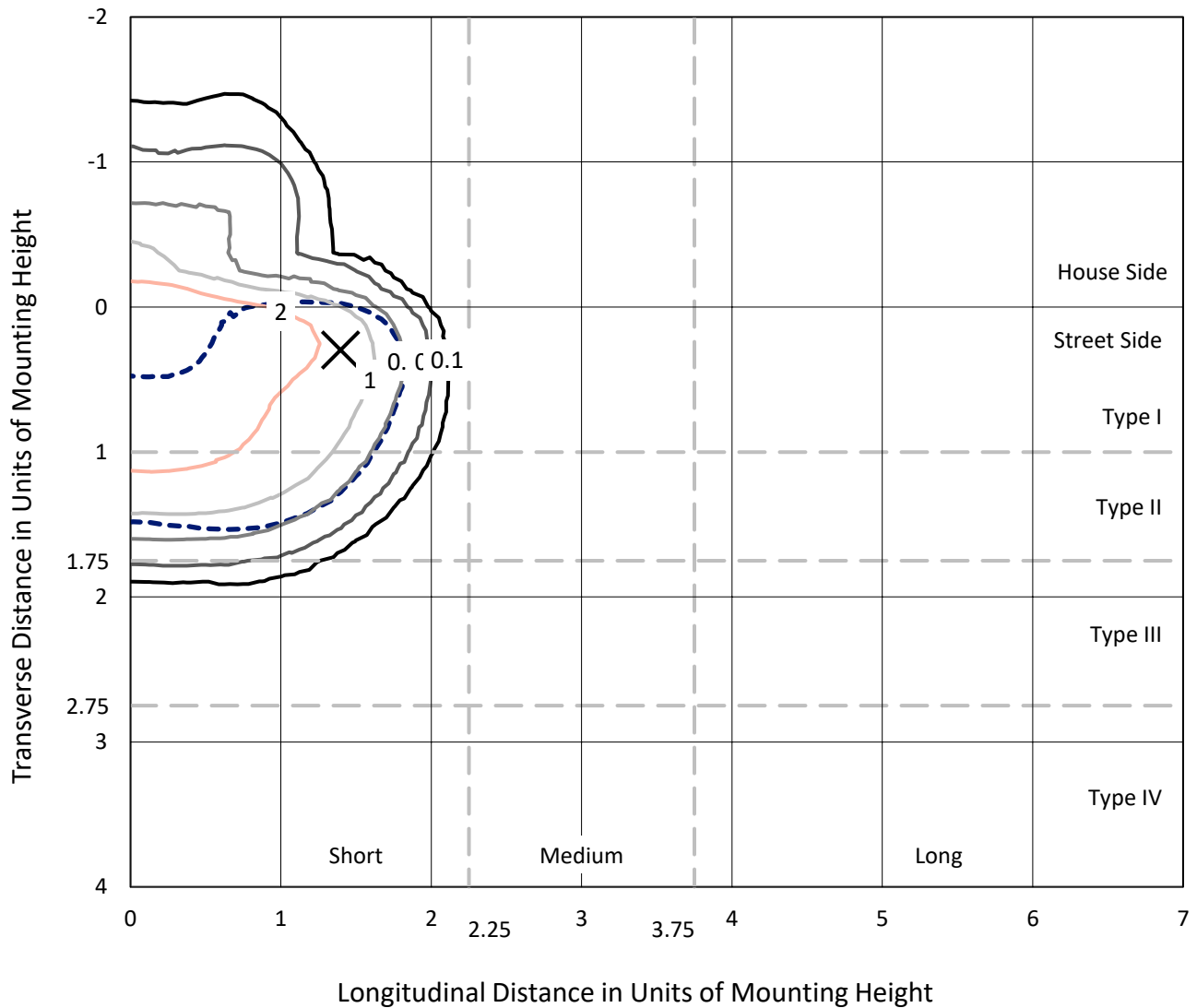
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

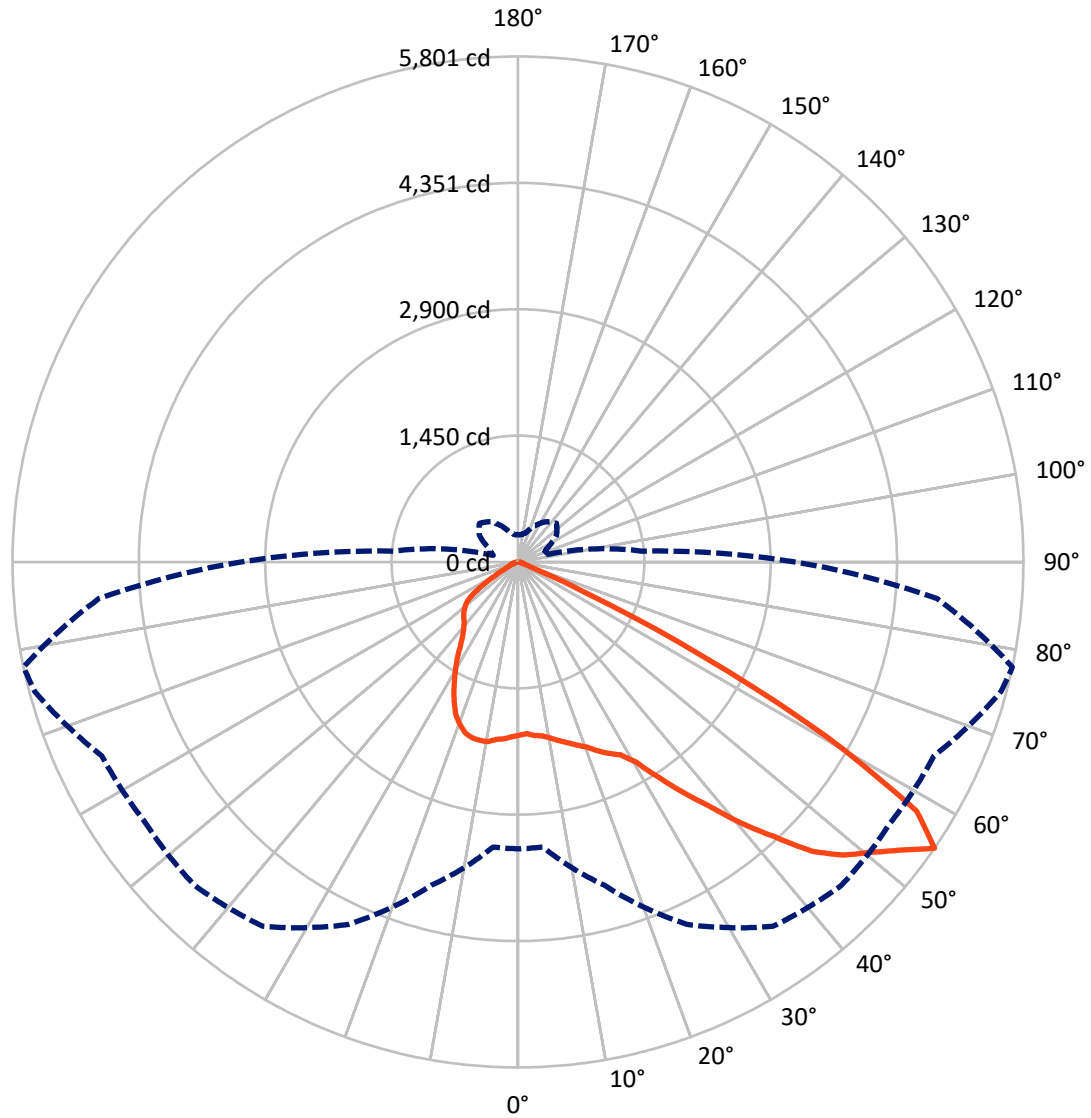
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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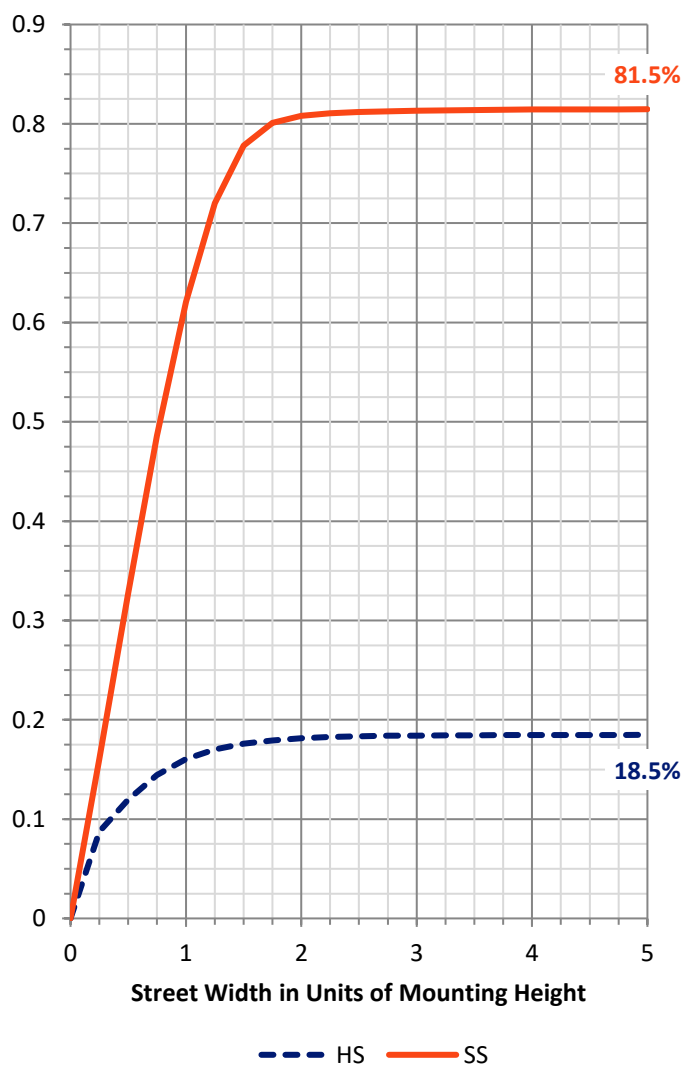
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1436.5	0.0	1436.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6297.5	0.0	6297.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	7734.0	0.0	7734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.3	2.3
10°-20°	469.2	6.1
20°-30°	822.5	10.6
30°-40°	1356.2	17.5
40°-50°	1973.4	25.5
50°-60°	2236.1	28.9
60°-70°	639.3	8.3
70°-80°	49.6	0.6
80°-90°	10.3	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°	7734.0	100.0
0°-180°	7734.0	100.0

Coefficient of Utilization



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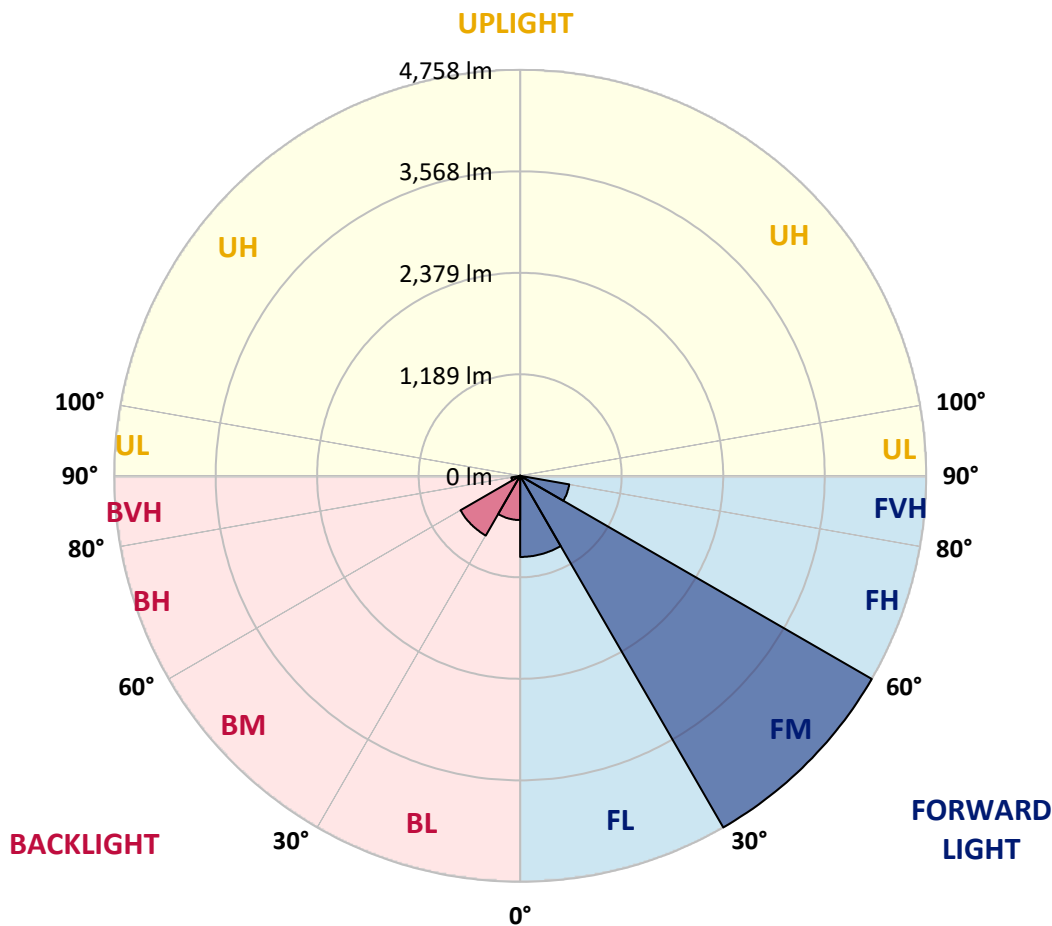
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	950.7	12.3			
FM (30°-60°)	4757.6	61.5			
FH (60°-80°)	584.1	7.6			G0/660
FVH (80°-90°)	5.0	0.1			G0/10
BL (0°-30°)	518.3	6.7	B2/1000		
BM (30°-60°)	808.1	10.4	B1/1000		
BH (60°-80°)	104.9	1.4	B0/110		G0/110
BVH (80°-90°)	5.3	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1988.4	1988.4	1988.4	1988.4	1988.4	1988.4	1988.4	1988.4	1988.4	1988.4	1988.4
2.5°	1869.5	1887.5	1890.2	1912.4	1911.0	1948.3	1959.4	1960.8	1985.7	1973.2	2005.0
5°	1817.0	1807.3	1803.1	1841.8	1852.9	1886.1	1913.7	1930.3	1981.5	1999.5	2032.7
7.5°	1769.9	1769.9	1772.7	1807.3	1803.1	1846.0	1875.0	1926.2	2000.9	2016.1	2056.2
10°	1724.3	1707.7	1728.5	1764.4	1794.8	1814.2	1875.0	1923.4	2010.5	2054.8	2110.1
12.5°	1700.8	1709.1	1711.9	1738.1	1771.3	1829.4	1862.6	1942.8	2079.7	2106.0	2165.4
15°	1848.8	1832.2	1792.1	1768.6	1796.2	1823.9	1906.8	1988.4	2115.6	2153.0	2219.3
17.5°	2020.2	2006.4	1973.2	1909.6	1847.4	1898.5	1963.5	2038.2	2154.3	2209.7	2307.8
20°	2244.2	2222.1	2188.9	2064.5	2010.5	1955.2	2024.4	2112.9	2218.0	2267.7	2368.7
22.5°	2511.1	2511.1	2436.4	2285.7	2173.7	2121.2	2150.2	2201.4	2288.5	2356.2	2455.8
25°	2789.0	2780.7	2713.0	2556.7	2367.3	2305.1	2338.3	2374.2	2397.7	2435.0	2501.4
27.5°	3107.1	3058.7	2972.9	2800.1	2632.8	2512.5	2548.4	2516.6	2487.6	2507.0	2602.4
30°	3322.8	3353.2	3244.0	3078.0	2920.4	2786.3	2793.2	2765.5	2632.8	2660.4	2717.1
32.5°	3546.8	3566.2	3505.3	3414.0	3256.4	3100.2	3043.5	3020.0	2920.4	2932.8	2877.5
35°	3733.5	3770.8	3716.9	3676.8	3631.1	3505.3	3349.1	3425.1	3264.7	3234.3	3090.5
37.5°	3904.9	3893.9	3957.5	3916.0	3906.3	3817.8	3646.4	3661.6	3553.7	3546.8	3380.9
40°	4058.4	4061.2	4148.3	4167.7	4128.9	3971.3	3722.4	3842.7	3929.8	3938.1	3725.2
42.5°	4185.6	4223.0	4297.6	4453.9	4395.8	4133.1	3801.2	3932.6	4256.2	4307.3	4051.5
45°	4296.3	4372.3	4464.9	4604.6	4571.4	4362.6	3997.6	4117.9	4604.6	4738.7	4358.5
47.5°	4303.2	4402.7	4503.7	4711.1	4752.6	4485.7	4200.8	4411.0	4881.2	5026.4	4582.5
50°	4275.5	4328.1	4529.9	4755.3	4849.4	4686.2	4485.7	4657.2	5149.4	5240.7	4695.9
52.5°	3947.8	3987.9	4393.0	4796.8	5023.6	4913.0	4863.2	5000.1	5423.2	5491.0	4802.3
55°	3291.0	3284.1	3841.3	4588.0	5103.8	5249.0	5218.6	5267.0	5739.9	5800.7	4828.6
57.5°	2251.1	2377.0	2858.2	3820.6	4612.9	5170.2	5202.0	5121.8	5370.7	5394.2	4209.1
60°	1214.1	1266.6	1653.8	2549.8	3512.2	4213.3	4296.3	4151.1	4131.7	4065.3	3004.7
62.5°	482.6	508.9	728.7	1262.5	1913.7	2560.9	2739.3	2679.8	2552.6	2378.4	1555.6
65°	229.5	246.1	362.3	590.4	849.0	1067.5	1245.9	1301.2	959.6	864.2	513.0
67.5°	156.3	168.7	264.1	337.4	302.8	316.7	412.1	383.0	225.4	192.2	142.4
70°	118.9	127.2	211.6	229.5	135.5	95.4	106.5	99.6	92.6	94.0	92.6
72.5°	84.3	91.3	154.9	135.5	59.5	44.2	56.7	67.8	67.8	67.8	66.4
75°	51.2	58.1	89.9	52.5	23.5	23.5	36.0	45.6	48.4	49.8	47.0
77.5°	26.3	33.2	30.4	15.2	15.2	18.0	26.3	31.8	34.6	34.6	33.2
80°	5.5	5.5	5.5	8.3	15.2	19.4	26.3	29.0	33.2	33.2	30.4
82.5°	0.0	1.4	4.1	8.3	13.8	18.0	24.9	29.0	33.2	34.6	31.8
85°	0.0	1.4	2.8	5.5	9.7	11.1	9.7	8.3	8.3	8.3	8.3
87.5°	0.0	0.0	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8
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°	1988.4	1988.4	1988.4	1988.4	1988.4	1988.4	1988.4	1988.4	1988.4	1988.4	1988.4
2.5°	2007.8	2011.9	2005.0	2003.6	1998.1	2014.7	1974.6	1964.9	1989.8	1966.3	1971.8
5°	2034.0	2043.7	2031.3	2010.5	1980.1	1933.1	1893.0	1840.5	1815.6	1797.6	1794.8
7.5°	2053.4	2060.3	2047.9	1981.5	1890.2	1771.3	1682.8	1617.8	1566.7	1551.5	1526.6
10°	2132.2	2133.6	2071.4	1924.8	1746.4	1590.2	1454.7	1355.1	1303.9	1272.1	1258.3
12.5°	2184.8	2182.0	2056.2	1812.8	1575.0	1367.6	1212.7	1092.4	1045.4	1030.2	1020.5
15°	2251.1	2235.9	2020.2	1698.0	1353.7	1129.7	990.1	907.1	902.9	893.3	902.9
17.5°	2303.7	2260.8	1967.7	1489.2	1142.2	930.6	839.3	844.9	855.9	865.6	867.0
20°	2389.4	2300.9	1847.4	1306.7	945.8	797.9	796.5	821.4	849.0	860.1	871.1
22.5°	2454.4	2317.5	1718.8	1111.7	785.4	743.9	767.4	804.8	825.5	836.6	853.2
25°	2477.9	2271.9	1547.3	916.8	708.0	719.0	755.0	779.9	806.2	818.6	811.7
27.5°	2501.4	2248.4	1342.7	755.0	666.5	702.4	732.9	757.8	766.1	782.6	793.7
30°	2558.1	2166.8	1158.8	652.7	645.8	691.4	713.5	721.8	743.9	753.6	753.6
32.5°	2603.7	2135.0	963.8	604.3	643.0	696.9	699.7	699.7	702.4	695.5	692.8
35°	2697.8	2025.8	789.6	575.2	641.6	698.3	705.2	681.7	618.1	593.2	586.3
37.5°	2813.9	1955.2	661.0	568.3	651.3	714.9	726.0	637.5	554.5	514.4	507.5
40°	2955.0	1905.5	576.6	565.6	673.4	753.6	720.4	602.9	495.0	437.0	434.2
42.5°	3119.5	1859.8	519.9	564.2	701.1	793.7	714.9	573.8	434.2	395.5	401.0
45°	3250.9	1834.9	481.2	554.5	710.7	817.2	719.0	522.7	409.3	384.4	387.2
47.5°	3353.2	1782.4	449.4	537.9	709.4	825.5	681.7	501.9	396.9	403.8	410.7
50°	3356.0	1711.9	409.3	501.9	688.6	810.3	638.8	482.6	394.1	423.1	437.0
52.5°	3318.6	1612.3	366.4	450.8	640.2	757.8	600.1	474.3	381.6	378.9	395.5
55°	3185.9	1425.6	294.5	365.0	540.7	625.0	565.6	459.1	344.3	312.5	315.3
57.5°	2574.7	1021.9	217.1	261.3	383.0	457.7	510.2	452.2	309.7	265.5	266.9
60°	1594.3	579.4	159.0	178.4	236.5	277.9	413.4	420.4	276.6	224.0	221.2
62.5°	818.6	286.2	123.1	125.8	145.2	163.2	283.5	352.6	250.3	212.9	212.9
65°	273.8	141.0	107.9	96.8	96.8	100.9	171.5	244.7	211.6	178.4	178.4
67.5°	117.5	105.1	94.0	84.3	77.4	73.3	96.8	142.4	157.6	135.5	130.0
70°	91.3	88.5	81.6	70.5	60.8	55.3	56.7	73.3	89.9	87.1	84.3
72.5°	67.8	67.8	65.0	55.3	47.0	40.1	37.3	38.7	42.9	44.2	45.6
75°	47.0	48.4	48.4	42.9	34.6	29.0	24.9	20.7	16.6	13.8	12.4
77.5°	31.8	33.2	36.0	31.8	26.3	19.4	15.2	11.1	6.9	2.8	2.8
80°	27.7	31.8	34.6	31.8	27.7	20.7	15.2	8.3	4.1	0.0	0.0
82.5°	29.0	31.8	36.0	30.4	26.3	19.4	15.2	9.7	4.1	1.4	0.0
85°	6.9	6.9	8.3	9.7	12.4	13.8	11.1	6.9	4.1	1.4	0.0
87.5°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	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)