

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: P452052

Luminaire Tested: **GALN-SA3A-727-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452052  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-727-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9344 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

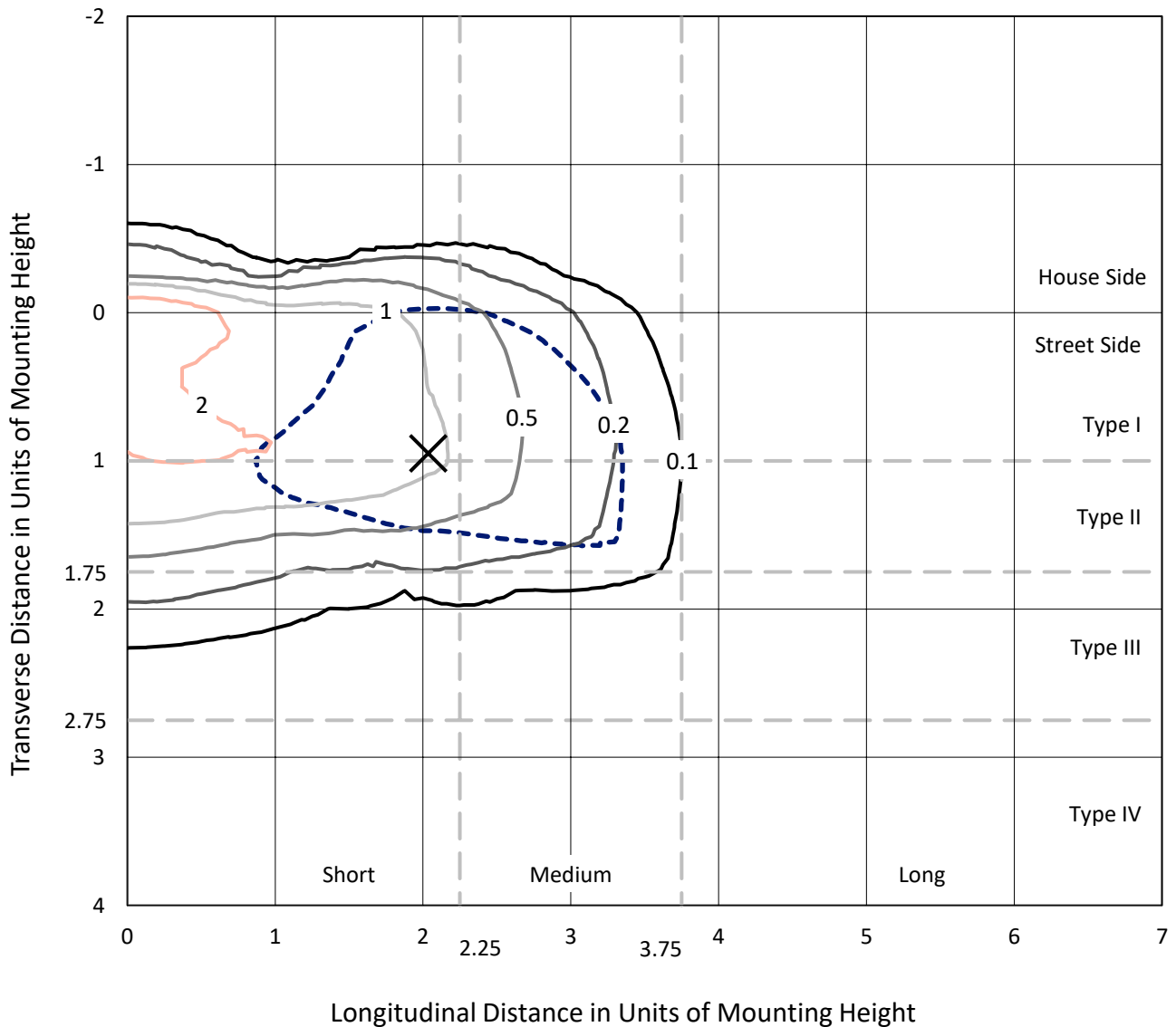
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

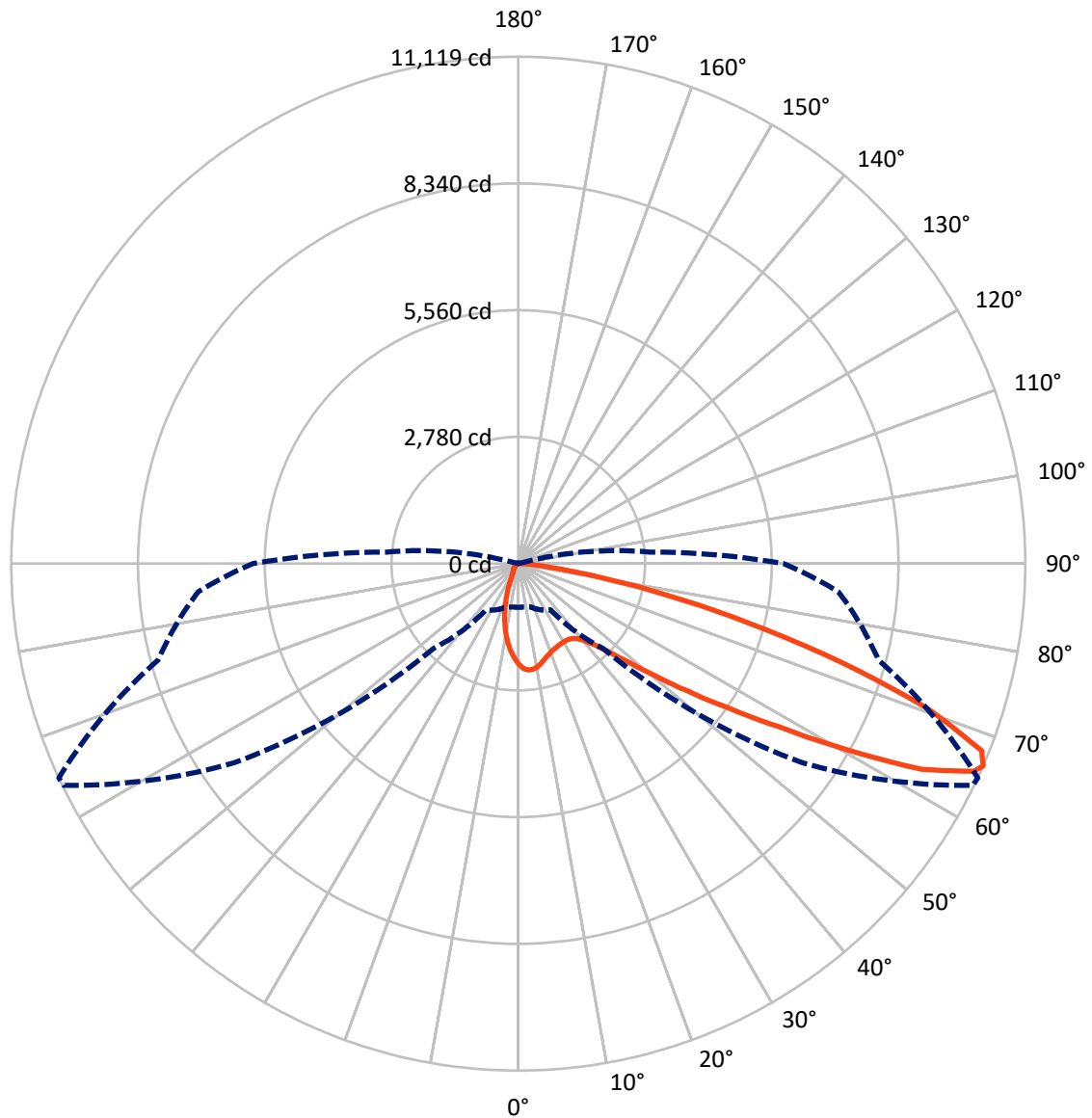
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	966.3	0.0	966.3
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	8377.7	0.0	8377.7
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	9344.0	0.0	9344.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.2	1.9
10°-20°	394.8	4.2
20°-30°	565.6	6.1
30°-40°	826.1	8.8
40°-50°	1385.3	14.8
50°-60°	2311.8	24.7
60°-70°	2453.9	26.3
70°-80°	1111.4	11.9
80°-90°	113.7	1.2
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°	9344.0	100.0
0°-180°	9344.0	100.0

**Coefficient of Utilization**

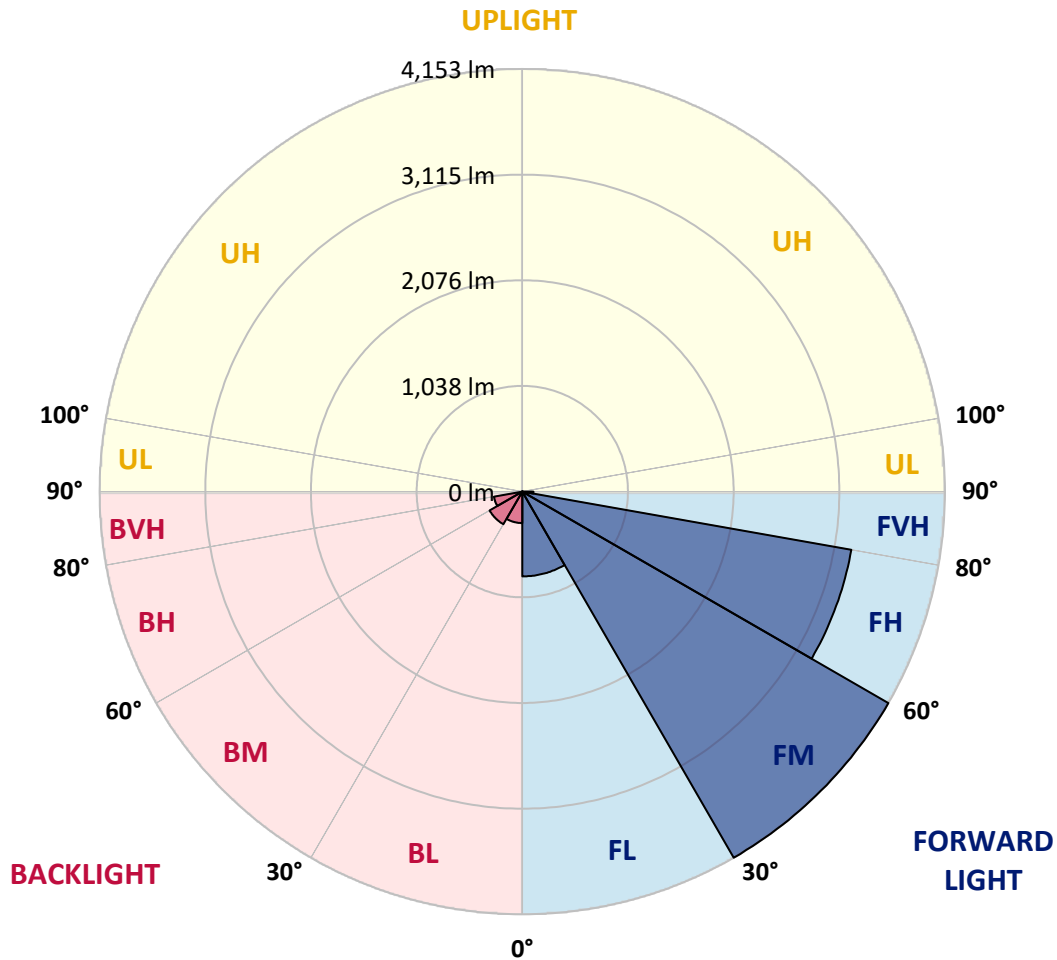


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	832.6	8.9			
FM (30°-60°)	4152.7	44.4			
FH (60°-80°)	3282.3	35.1			G2/5000
FVH (80°-90°)	110.1	1.2			G2/225
BL (0°-30°)	309.1	3.3	B1/500		
BM (30°-60°)	370.6	4.0	B1/1000		
BH (60°-80°)	283.0	3.0	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2215.8	2215.8	2215.8	2215.8	2215.8	2215.8	2215.8	2215.8	2215.8	2215.8	2215.8
2.5°	2335.1	2337.6	2340.8	2345.2	2348.3	2338.9	2325.6	2310.5	2307.3	2275.1	2236.0
5°	2210.1	2213.9	2241.7	2256.8	2290.9	2321.8	2341.4	2343.9	2342.7	2312.4	2249.9
7.5°	2032.2	2042.9	2070.0	2096.5	2160.3	2219.0	2288.4	2337.0	2340.1	2331.9	2254.3
10°	1887.6	1894.6	1908.5	1960.8	2013.9	2103.5	2200.7	2292.2	2299.7	2332.6	2250.5
12.5°	1774.7	1784.8	1801.8	1842.2	1905.9	1990.5	2100.9	2224.0	2239.8	2320.6	2239.8
15°	1695.8	1700.8	1717.9	1757.6	1819.5	1897.7	2009.4	2152.7	2166.6	2304.8	2237.9
17.5°	1658.5	1664.2	1676.2	1707.8	1758.9	1831.5	1940.6	2095.3	2112.9	2294.7	2244.8
20°	1668.6	1673.7	1674.3	1690.7	1725.4	1786.7	1890.2	2041.6	2064.3	2288.4	2256.2
22.5°	1726.1	1726.7	1719.1	1711.6	1723.5	1767.7	1859.2	2007.5	2030.9	2287.1	2269.5
25°	1811.9	1813.8	1801.2	1774.7	1750.7	1773.4	1852.3	1985.5	2006.3	2284.0	2277.7
27.5°	1930.5	1929.9	1926.1	1882.0	1813.8	1798.6	1858.0	1973.5	1991.1	2275.1	2280.8
30°	2096.5	2091.5	2083.3	2033.4	1929.3	1859.9	1882.0	1965.9	1982.3	2262.5	2272.6
32.5°	2260.0	2278.9	2277.7	2230.3	2100.3	1969.0	1931.8	1976.0	1988.0	2254.3	2260.6
35°	2450.6	2449.9	2498.5	2480.9	2328.8	2108.5	2017.0	2009.4	2018.9	2260.0	2254.9
37.5°	2627.3	2643.7	2719.4	2737.7	2598.9	2305.4	2137.6	2081.4	2084.5	2298.5	2268.8
40°	2847.5	2879.1	2992.1	3053.3	2930.8	2597.6	2315.5	2213.3	2213.9	2393.1	2321.2
42.5°	3131.5	3181.4	3286.8	3389.0	3323.4	2943.5	2582.5	2422.2	2420.9	2559.8	2441.1
45°	3476.8	3511.5	3631.4	3793.6	3751.9	3426.3	2971.2	2745.9	2729.5	2833.0	2653.8
47.5°	3774.6	3822.0	3943.8	4128.7	4318.0	4015.7	3435.7	3190.9	3180.1	3267.9	3018.6
50°	3904.6	3946.3	4074.4	4333.8	4792.6	4789.5	4127.4	3840.3	3822.0	3869.3	3582.8
52.5°	3762.0	3801.1	3930.5	4253.6	5016.0	5732.3	5129.6	4655.0	4632.9	4572.4	4256.8
55°	3273.5	3305.7	3496.9	3868.0	4930.2	6360.9	6510.5	5661.6	5575.8	5340.4	5019.8
57.5°	2606.5	2590.1	2708.7	3139.7	4426.6	6571.7	7927.9	6915.6	6762.3	6004.3	5665.4
60°	1806.2	1856.7	1904.7	2188.7	3328.4	6206.3	8809.6	8492.1	8290.2	6657.5	6283.9
62.5°	1327.8	1361.3	1392.8	1524.1	2092.7	4955.4	8965.5	10111.6	9932.3	7351.1	6874.0
65°	1050.2	1052.7	1065.3	1194.7	1379.0	3222.4	8216.3	11024.8	10978.7	8018.8	7113.2
66°	956.8	957.4	976.9	1115.8	1237.6	2624.1	7616.2	11094.2	11119.4	8179.1	7043.1
67.5°	836.2	833.7	862.1	1002.8	1127.2	1892.1	6542.0	10812.7	10962.3	8302.2	6791.3
70°	648.1	645.0	679.7	841.3	1038.2	1262.2	4348.3	9284.2	9525.3	8050.4	6008.7
72.5°	431.7	434.2	493.5	663.9	990.8	1111.4	2615.9	7062.7	7403.5	6648.1	4727.0
75°	251.8	256.2	323.8	493.5	860.2	1059.6	1480.6	5036.2	5253.9	4590.7	2944.7
77.5°	131.9	133.8	181.1	325.6	659.5	983.9	986.4	3217.4	3319.6	2231.0	1165.6
80°	70.1	68.2	97.2	196.3	453.8	864.0	800.2	1703.4	1770.9	662.7	294.7
82.5°	26.5	29.0	51.8	128.7	268.2	620.4	689.2	752.9	729.6	145.8	123.7
85°	5.0	6.3	22.1	76.4	135.1	259.4	508.0	369.2	342.1	54.9	71.3
87.5°	0.6	1.3	6.3	18.3	19.6	87.7	150.2	102.2	88.4	20.2	29.7
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°	2215.8	2215.8	2215.8	2215.8	2215.8	2215.8	2215.8	2215.8	2215.8	2215.8	2215.8
2.5°	2217.1	2200.0	2143.2	2087.1	2029.6	1977.9	1942.5	1885.1	1870.6	1849.8	1837.8
5°	2212.7	2172.9	2063.7	1944.4	1833.4	1713.4	1621.9	1533.6	1486.3	1462.3	1453.4
7.5°	2200.0	2136.9	1966.5	1779.7	1601.7	1422.5	1266.6	1148.0	1071.6	1019.2	983.9
10°	2174.8	2087.7	1853.6	1596.7	1327.8	1091.2	893.6	743.4	627.3	590.7	592.0
12.5°	2148.9	2032.8	1727.3	1393.5	1060.3	761.7	552.2	433.6	378.0	359.7	355.9
15°	2124.9	1980.4	1603.6	1196.6	789.5	493.5	355.9	314.3	299.1	296.0	295.4
17.5°	2112.3	1931.8	1471.7	971.3	551.0	335.1	285.3	273.9	269.5	266.3	265.1
20°	2101.6	1889.5	1345.5	760.5	376.8	274.5	255.6	244.9	237.3	234.1	232.2
22.5°	2094.0	1846.0	1214.9	588.8	288.4	243.6	226.6	212.7	202.0	198.2	195.6
25°	2082.6	1798.0	1083.0	430.4	243.0	216.5	196.9	180.5	166.6	159.7	158.4
27.5°	2066.2	1743.7	938.5	318.7	217.1	192.5	168.5	148.3	134.4	126.9	127.5
30°	2039.7	1686.9	793.9	253.1	196.3	167.9	142.0	122.4	109.2	103.5	102.9
32.5°	2008.2	1618.2	661.4	217.1	177.3	145.8	118.6	101.6	91.5	87.1	86.5
35°	1978.5	1548.7	526.3	195.0	157.8	125.6	99.7	85.2	77.6	73.8	74.5
37.5°	1962.1	1486.9	410.2	177.3	142.0	107.9	85.8	73.2	66.3	63.1	62.5
40°	1972.8	1436.4	326.3	161.6	124.3	92.8	73.8	63.1	56.2	51.8	51.8
42.5°	2023.3	1414.3	263.2	146.4	107.9	80.2	64.4	54.3	46.7	42.3	42.9
45°	2177.3	1437.7	220.3	132.5	92.8	69.4	55.5	44.8	37.9	34.7	34.1
47.5°	2432.9	1525.4	190.6	118.0	79.5	59.3	46.7	37.2	30.3	27.8	27.1
50°	2879.7	1706.5	168.5	103.5	67.5	50.5	38.5	29.7	24.0	21.5	21.5
52.5°	3494.4	2101.6	152.7	87.1	56.8	42.9	31.6	24.0	18.9	17.0	16.4
55°	4136.9	2518.1	144.5	73.2	47.3	35.3	25.2	18.9	14.5	12.6	12.0
57.5°	4754.7	2845.0	135.1	59.3	37.9	27.1	19.6	14.5	10.1	8.8	8.2
60°	5347.3	3109.5	114.9	47.3	29.7	19.6	14.5	10.1	6.9	5.7	5.7
62.5°	5877.5	3263.4	90.2	37.9	22.7	13.9	9.5	7.6	5.0	3.8	3.8
65°	5939.3	3063.4	68.2	29.0	16.4	8.8	5.7	5.7	3.8	2.5	2.5
66°	5815.0	2893.6	60.0	26.5	14.5	7.6	5.0	4.4	3.2	1.9	1.9
67.5°	5537.3	2603.9	51.8	22.7	12.0	5.7	3.8	3.8	2.5	1.3	1.3
70°	4784.4	2126.8	41.0	17.0	8.8	4.4	2.5	2.5	1.9	1.3	1.3
72.5°	3646.5	1587.9	33.4	12.6	6.3	3.2	1.9	1.9	1.9	1.3	1.3
75°	2199.4	855.1	25.9	9.5	5.7	2.5	1.3	1.9	2.5	1.9	1.3
77.5°	810.3	290.9	20.2	7.6	4.4	2.5	1.3	1.3	2.5	1.9	1.9
80°	198.8	75.7	14.5	6.3	4.4	2.5	1.3	1.3	2.5	2.5	2.5
82.5°	92.1	32.2	10.1	5.7	4.4	2.5	1.3	1.3	1.9	2.5	2.5
85°	53.0	15.1	8.2	6.3	4.4	2.5	1.3	1.3	1.9	2.5	2.5
87.5°	21.5	7.6	7.6	6.3	5.0	3.2	1.3	1.3	1.3	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

(END OF REPORT)