

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: P451588

Luminaire Tested: **GALN-SA2C-727-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451588
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-SA2C-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 9677 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108
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

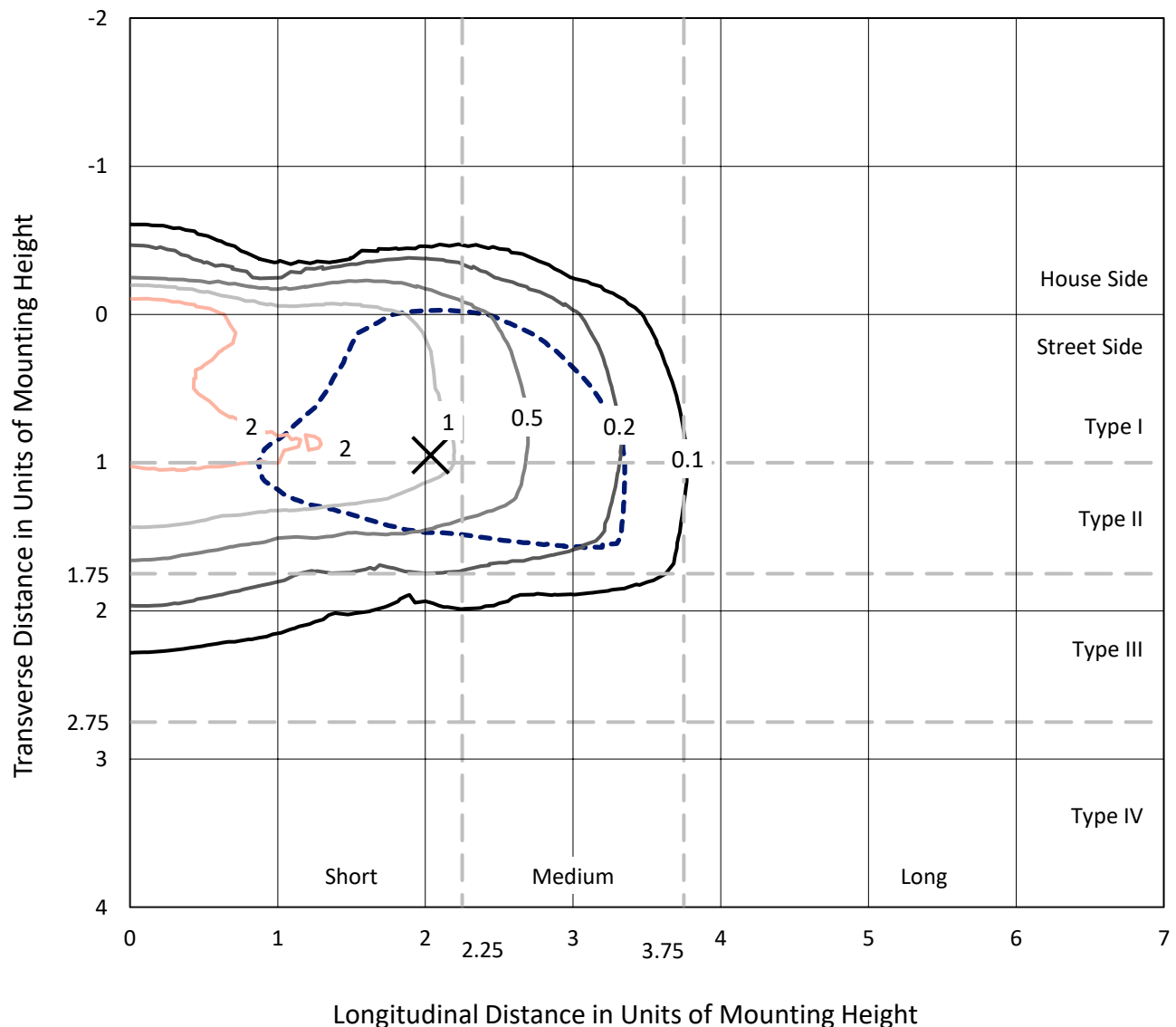


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Iso-Footcandle Lines of Horizontal Illumination

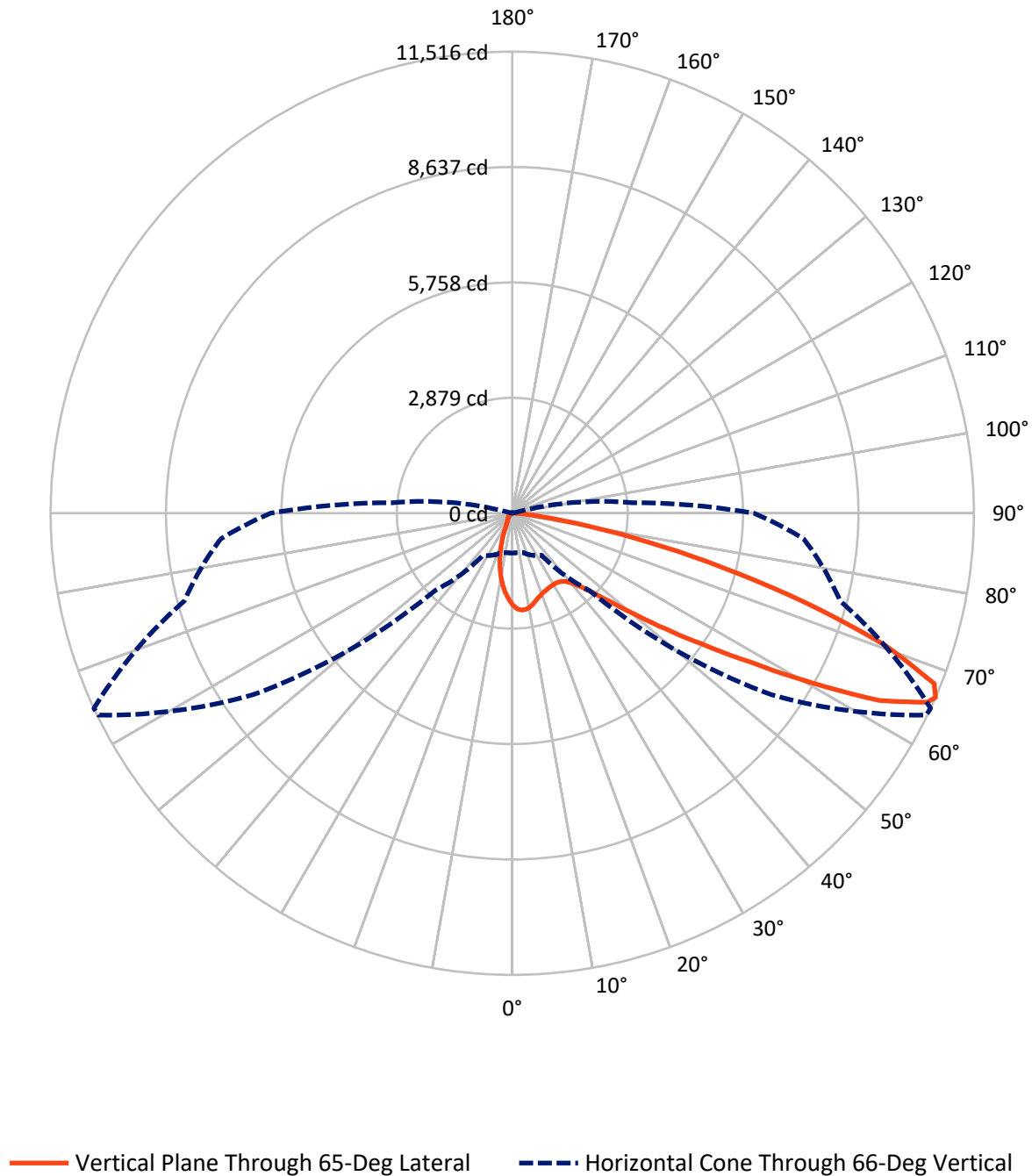
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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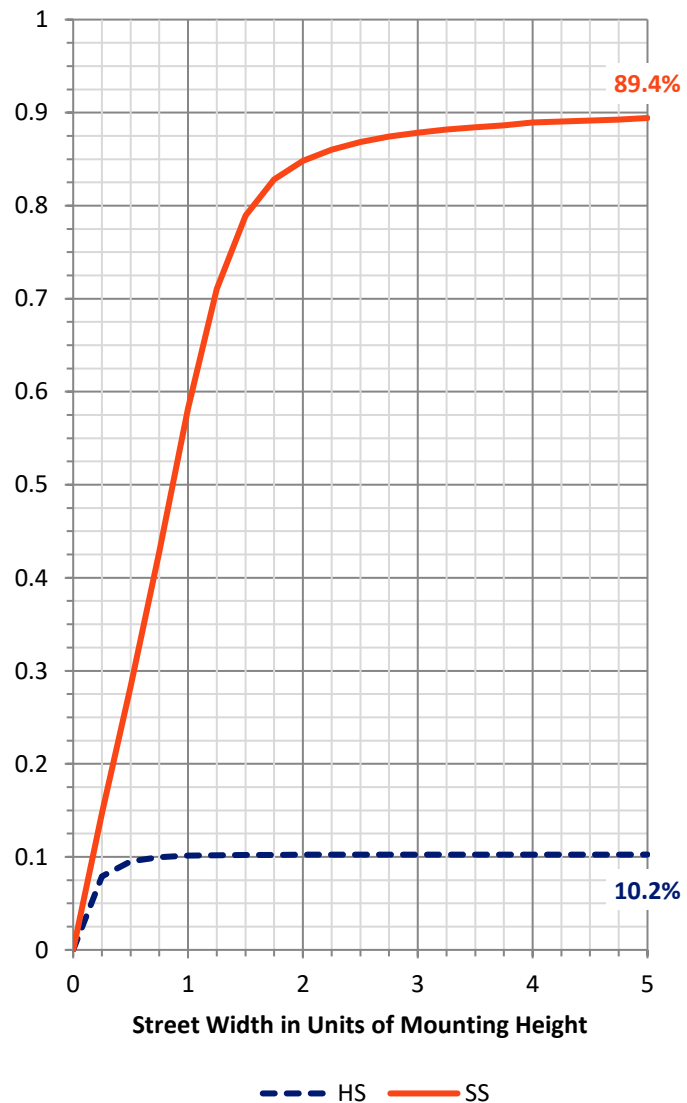
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1000.7	0.0	1000.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	8676.3	0.0	8676.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	9677.0	0.0	9677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	1.9
10°-20°	408.9	4.2
20°-30°	585.8	6.1
30°-40°	855.6	8.8
40°-50°	1434.7	14.8
50°-60°	2394.2	24.7
60°-70°	2541.4	26.3
70°-80°	1151.0	11.9
80°-90°	117.8	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°	9677.0	100.0
0°-180°	9677.0	100.0

Coefficient of Utilization



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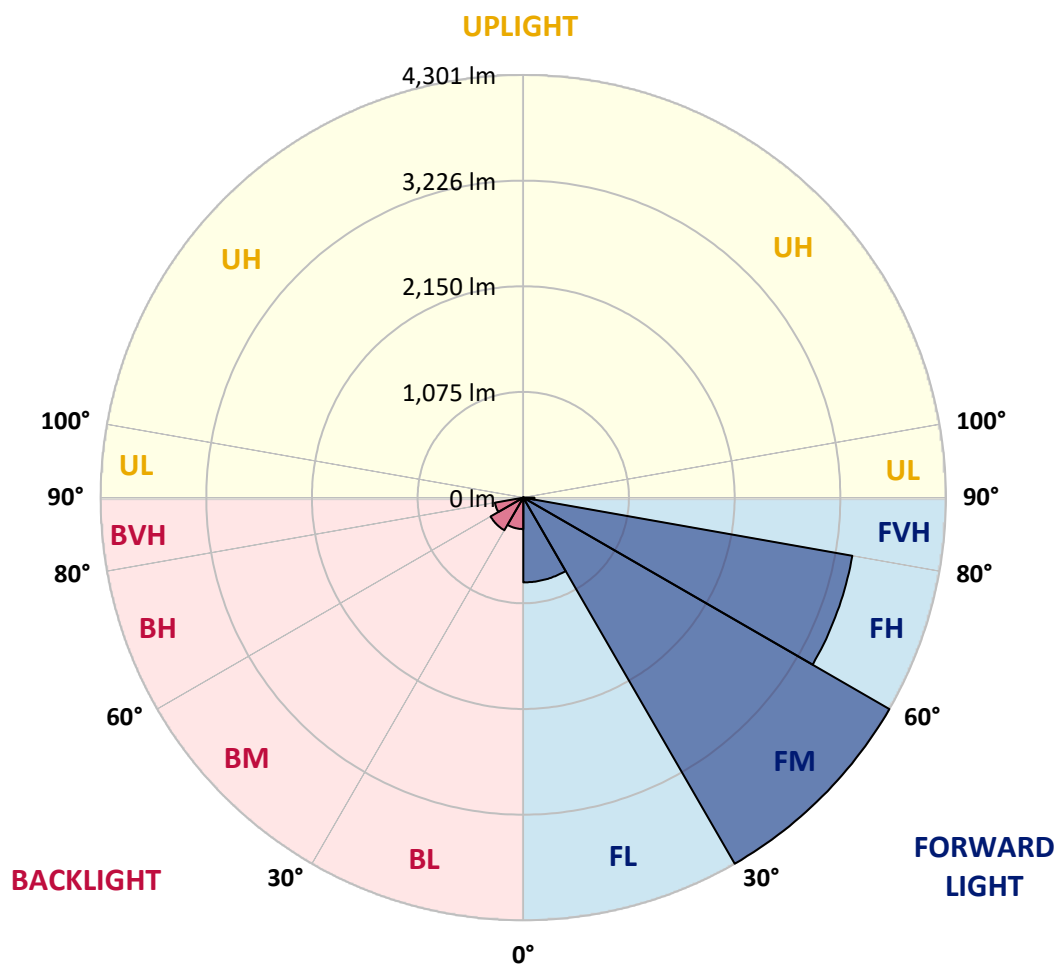
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	862.3	8.9			
FM	(30°-60°)	4300.7	44.4			
FH	(60°-80°)	3399.3	35.1			G2/5000
FVH	(80°-90°)	114.0	1.2			G2/225
BL	(0°-30°)	320.1	3.3	B1/500		
BM	(30°-60°)	383.8	4.0	B1/1000		
BH	(60°-80°)	293.1	3.0	B1/500		G1/500
BVH	(80°-90°)	3.7	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°	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8
2.5°	2418.3	2420.9	2424.2	2428.8	2432.0	2422.2	2408.5	2392.8	2389.5	2356.2	2315.7
5°	2288.9	2292.8	2321.6	2337.3	2372.6	2404.6	2424.8	2427.5	2426.1	2394.8	2330.1
7.5°	2104.6	2115.7	2143.8	2171.2	2237.3	2298.0	2369.9	2420.3	2423.5	2415.0	2334.6
10°	1954.9	1962.1	1976.5	2030.7	2085.6	2178.4	2279.1	2373.9	2381.7	2415.7	2330.7
12.5°	1837.9	1848.4	1866.0	1907.8	1973.9	2061.4	2175.8	2303.3	2319.6	2403.3	2319.6
15°	1756.2	1761.4	1779.1	1820.3	1884.3	1965.4	2081.0	2229.4	2243.8	2386.9	2317.6
17.5°	1717.6	1723.5	1735.9	1768.6	1821.6	1896.7	2009.8	2169.9	2188.2	2376.5	2324.8
20°	1728.1	1733.3	1734.0	1751.0	1786.9	1850.3	1957.5	2114.4	2137.9	2369.9	2336.6
22.5°	1787.6	1788.2	1780.4	1772.6	1785.0	1830.7	1925.5	2079.1	2103.3	2368.6	2350.3
25°	1876.5	1878.4	1865.4	1837.9	1813.1	1836.6	1918.3	2056.2	2077.8	2365.4	2358.8
27.5°	1999.3	1998.7	1994.8	1949.0	1878.4	1862.7	1924.2	2043.8	2062.1	2356.2	2362.1
30°	2171.2	2166.0	2157.5	2105.9	1998.0	1926.1	1949.0	2035.9	2052.9	2343.1	2353.6
32.5°	2340.5	2360.1	2358.8	2309.8	2175.2	2039.2	2000.7	2046.4	2058.8	2334.6	2341.2
35°	2537.9	2537.3	2587.6	2569.3	2411.8	2183.7	2088.9	2081.0	2090.9	2340.5	2335.3
37.5°	2720.9	2737.9	2816.3	2835.3	2691.5	2387.6	2213.7	2155.6	2158.8	2380.4	2349.7
40°	2949.0	2981.7	3098.7	3162.1	3035.3	2690.2	2398.0	2292.2	2292.8	2478.4	2403.9
42.5°	3243.1	3294.8	3403.9	3509.8	3441.8	3048.4	2674.5	2508.5	2507.2	2651.0	2528.1
45°	3600.7	3636.6	3760.8	3928.8	3885.6	3548.4	3077.1	2843.8	2826.8	2934.0	2748.4
47.5°	3909.2	3958.2	4084.3	4275.8	4471.9	4158.8	3558.2	3304.6	3293.5	3384.3	3126.1
50°	4043.8	4086.9	4219.6	4488.2	4963.4	4960.1	4274.5	3977.1	3958.2	4007.2	3710.5
52.5°	3896.1	3936.6	4070.6	4405.2	5194.8	5936.6	5312.4	4820.9	4798.0	4735.3	4408.5
55°	3390.2	3423.5	3621.6	4005.9	5105.9	6587.6	6742.5	5863.4	5774.5	5530.7	5198.7
57.5°	2699.3	2682.4	2805.2	3251.6	4584.3	6805.9	8210.5	7162.1	7003.3	6218.3	5867.3
60°	1870.6	1922.9	1972.6	2266.7	3447.1	6427.5	9123.5	8794.8	8585.6	6894.8	6507.8
62.5°	1375.2	1409.8	1442.5	1578.4	2167.3	5132.0	9285.0	10471.9	10286.3	7613.1	7119.0
65°	1087.6	1090.2	1103.3	1237.3	1428.1	3337.3	8509.2	11417.7	11369.9	8304.6	7366.7
66°	990.9	991.5	1011.8	1155.6	1281.7	2717.6	7887.6	11489.6	11515.7	8470.6	7294.1
67.5°	866.0	863.4	892.8	1038.6	1167.3	1959.5	6775.2	11198.1	11353.0	8598.0	7033.3
70°	671.2	668.0	703.9	871.2	1075.2	1307.2	4503.3	9615.0	9864.7	8337.3	6222.9
72.5°	447.1	449.7	511.1	687.6	1026.1	1151.0	2709.2	7314.4	7667.3	6885.0	4895.4
75°	260.8	265.4	335.3	511.1	890.9	1097.4	1533.3	5215.7	5441.2	4754.3	3049.7
77.5°	136.6	138.6	187.6	337.3	683.0	1019.0	1021.6	3332.0	3437.9	2310.5	1207.2
80°	72.5	70.6	100.7	203.3	469.9	894.8	828.8	1764.1	1834.0	686.3	305.2
82.5°	27.5	30.1	53.6	133.3	277.8	642.5	713.7	779.7	755.6	151.0	128.1
85°	5.2	6.5	22.9	79.1	139.9	268.6	526.1	382.4	354.2	56.9	73.9
87.5°	0.7	1.3	6.5	19.0	20.3	90.8	155.6	105.9	91.5	20.9	30.7
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°	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8	2294.8
2.5°	2296.1	2278.4	2219.6	2161.4	2102.0	2048.4	2011.8	1952.3	1937.3	1915.7	1903.3
5°	2291.5	2250.3	2137.3	2013.7	1898.7	1774.5	1679.7	1588.2	1539.2	1514.4	1505.2
7.5°	2278.4	2213.1	2036.6	1843.1	1658.8	1473.2	1311.8	1188.9	1109.8	1055.6	1019.0
10°	2252.3	2162.1	1919.6	1653.6	1375.2	1130.1	925.5	769.9	649.7	611.8	613.1
12.5°	2225.5	2105.2	1788.9	1443.1	1098.0	788.9	571.9	449.0	391.5	372.5	368.6
15°	2200.7	2051.0	1660.8	1239.2	817.6	511.1	368.6	325.5	309.8	306.5	305.9
17.5°	2187.6	2000.7	1524.2	1005.9	570.6	347.1	295.4	283.7	279.1	275.8	274.5
20°	2176.5	1956.9	1393.5	787.6	390.2	284.3	264.7	253.6	245.8	242.5	240.5
22.5°	2168.6	1911.8	1258.2	609.8	298.7	252.3	234.6	220.3	209.2	205.2	202.6
25°	2156.9	1862.1	1121.6	445.8	251.6	224.2	203.9	186.9	172.5	165.4	164.1
27.5°	2139.9	1805.9	971.9	330.1	224.8	199.3	174.5	153.6	139.2	131.4	132.0
30°	2112.4	1747.1	822.2	262.1	203.3	173.9	147.1	126.8	113.1	107.2	106.5
32.5°	2079.7	1675.8	685.0	224.8	183.7	151.0	122.9	105.2	94.8	90.2	89.5
35°	2049.0	1603.9	545.1	202.0	163.4	130.1	103.3	88.2	80.4	76.5	77.1
37.5°	2032.0	1539.9	424.8	183.7	147.1	111.8	88.9	75.8	68.6	65.4	64.7
40°	2043.1	1487.6	337.9	167.3	128.8	96.1	76.5	65.4	58.2	53.6	53.6
42.5°	2095.4	1464.7	272.5	151.6	111.8	83.0	66.7	56.2	48.4	43.8	44.4
45°	2254.9	1488.9	228.1	137.3	96.1	71.9	57.5	46.4	39.2	35.9	35.3
47.5°	2519.6	1579.7	197.4	122.2	82.4	61.4	48.4	38.6	31.4	28.8	28.1
50°	2982.4	1767.3	174.5	107.2	69.9	52.3	39.9	30.7	24.8	22.2	22.2
52.5°	3619.0	2176.5	158.2	90.2	58.8	44.4	32.7	24.8	19.6	17.6	17.0
55°	4284.3	2607.8	149.7	75.8	49.0	36.6	26.1	19.6	15.0	13.1	12.4
57.5°	4924.2	2946.4	139.9	61.4	39.2	28.1	20.3	15.0	10.5	9.2	8.5
60°	5537.9	3220.3	119.0	49.0	30.7	20.3	15.0	10.5	7.2	5.9	5.9
62.5°	6086.9	3379.7	93.5	39.2	23.5	14.4	9.8	7.8	5.2	3.9	3.9
65°	6151.0	3172.6	70.6	30.1	17.0	9.2	5.9	5.9	3.9	2.6	2.6
66°	6022.2	2996.7	62.1	27.5	15.0	7.8	5.2	4.6	3.3	2.0	2.0
67.5°	5734.6	2696.7	53.6	23.5	12.4	5.9	3.9	3.9	2.6	1.3	1.3
70°	4954.9	2202.6	42.5	17.6	9.2	4.6	2.6	2.6	2.0	1.3	1.3
72.5°	3776.5	1644.4	34.6	13.1	6.5	3.3	2.0	2.0	2.0	1.3	1.3
75°	2277.8	885.6	26.8	9.8	5.9	2.6	1.3	2.0	2.6	2.0	1.3
77.5°	839.2	301.3	20.9	7.8	4.6	2.6	1.3	1.3	2.6	2.0	2.0
80°	205.9	78.4	15.0	6.5	4.6	2.6	1.3	1.3	2.6	2.6	2.6
82.5°	95.4	33.3	10.5	5.9	4.6	2.6	1.3	1.3	2.0	2.6	2.6
85°	54.9	15.7	8.5	6.5	4.6	2.6	1.3	1.3	2.0	2.6	2.6
87.5°	22.2	7.8	7.8	6.5	5.2	3.3	1.3	1.3	1.3	2.0	2.0
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)