

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: P193271

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-T4FT-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17681.4 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 166
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: 25 FT



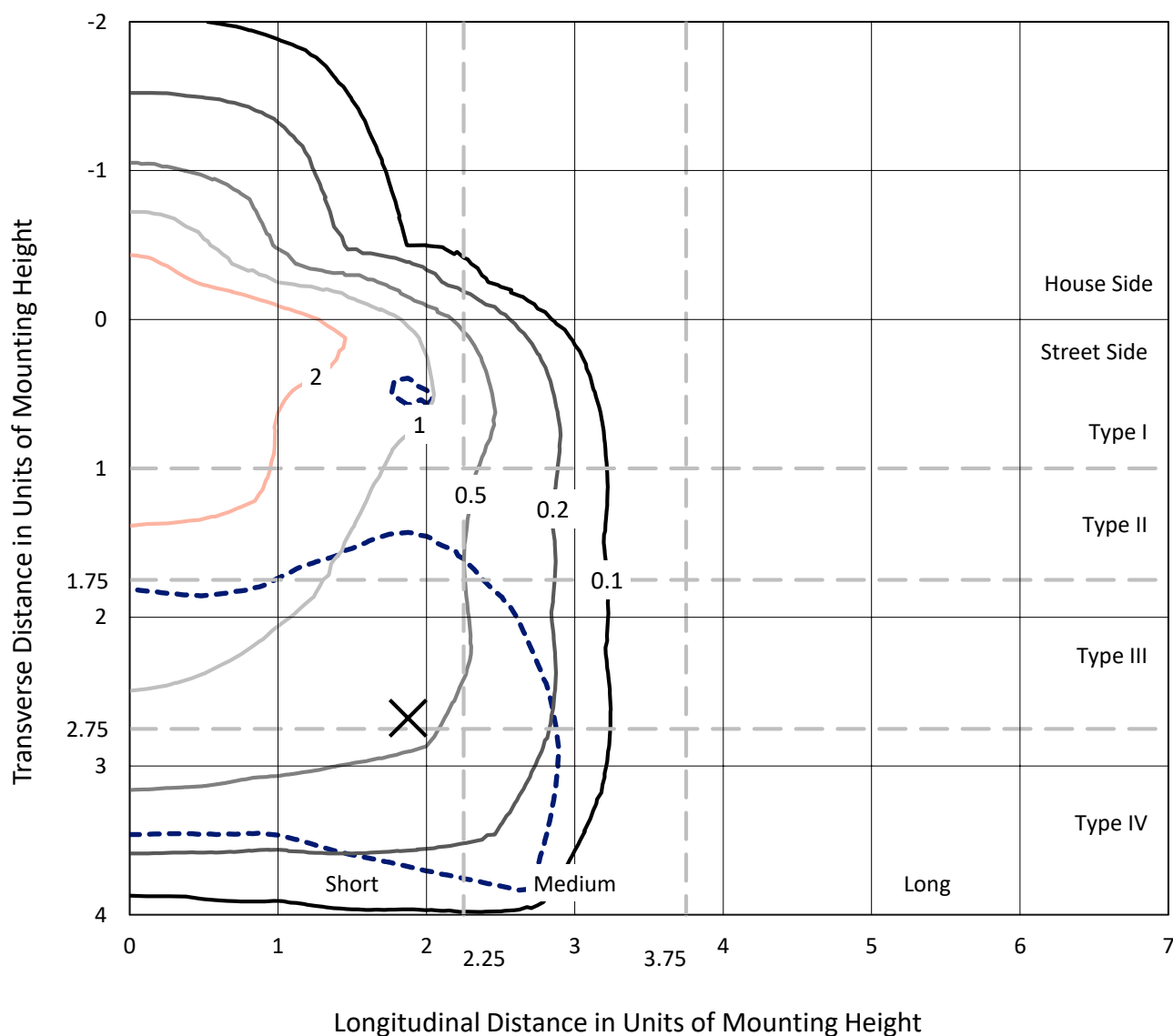
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

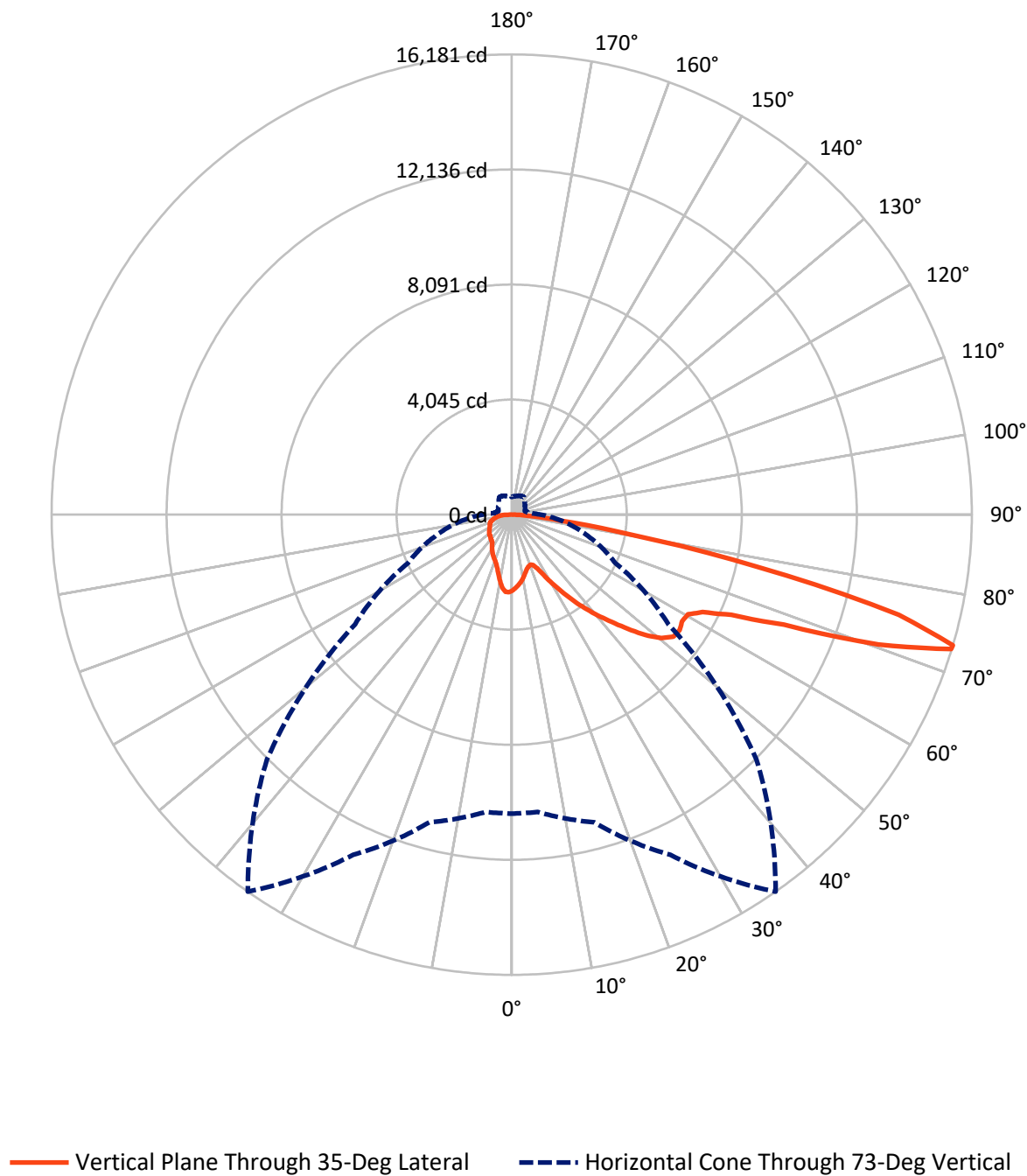


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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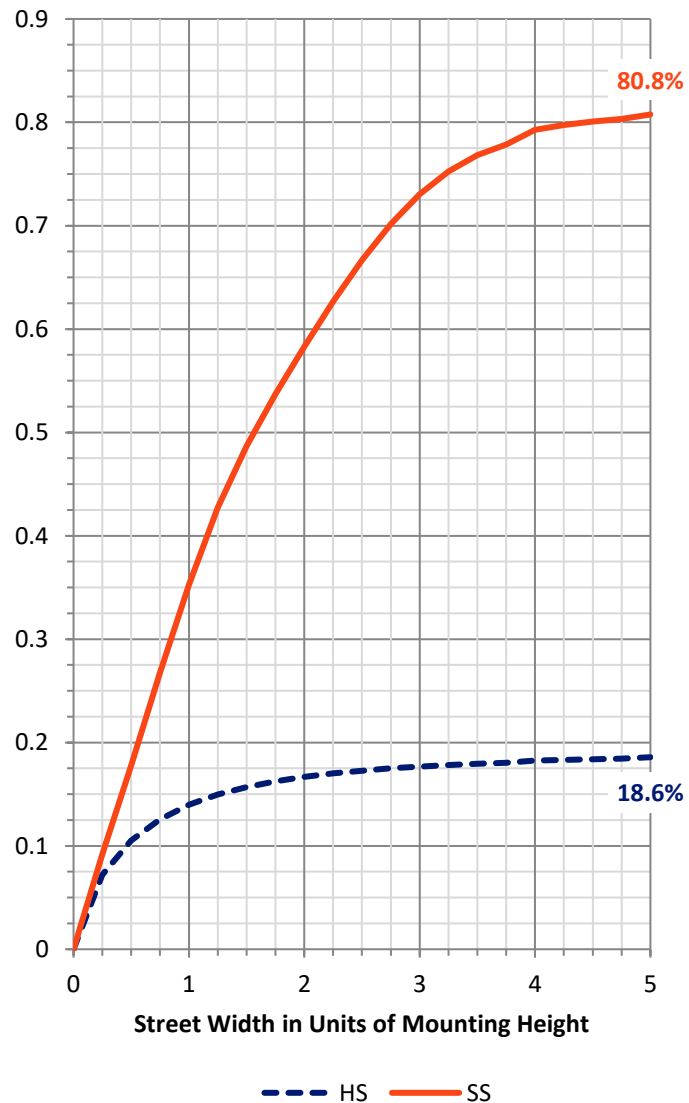
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3372.3	0.0	3372.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	14309.1	0.0	14309.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	17681.4	0.0	17681.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.6	1.4
10°-20°	603.0	3.4
20°-30°	974.8	5.5
30°-40°	1634.6	9.2
40°-50°	2519.7	14.3
50°-60°	3380.4	19.1
60°-70°	4503.4	25.5
70°-80°	3434.7	19.4
80°-90°	389.3	2.2
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°	17681.4	100.0
0°-180°	17681.4	100.0

Coefficient of Utilization



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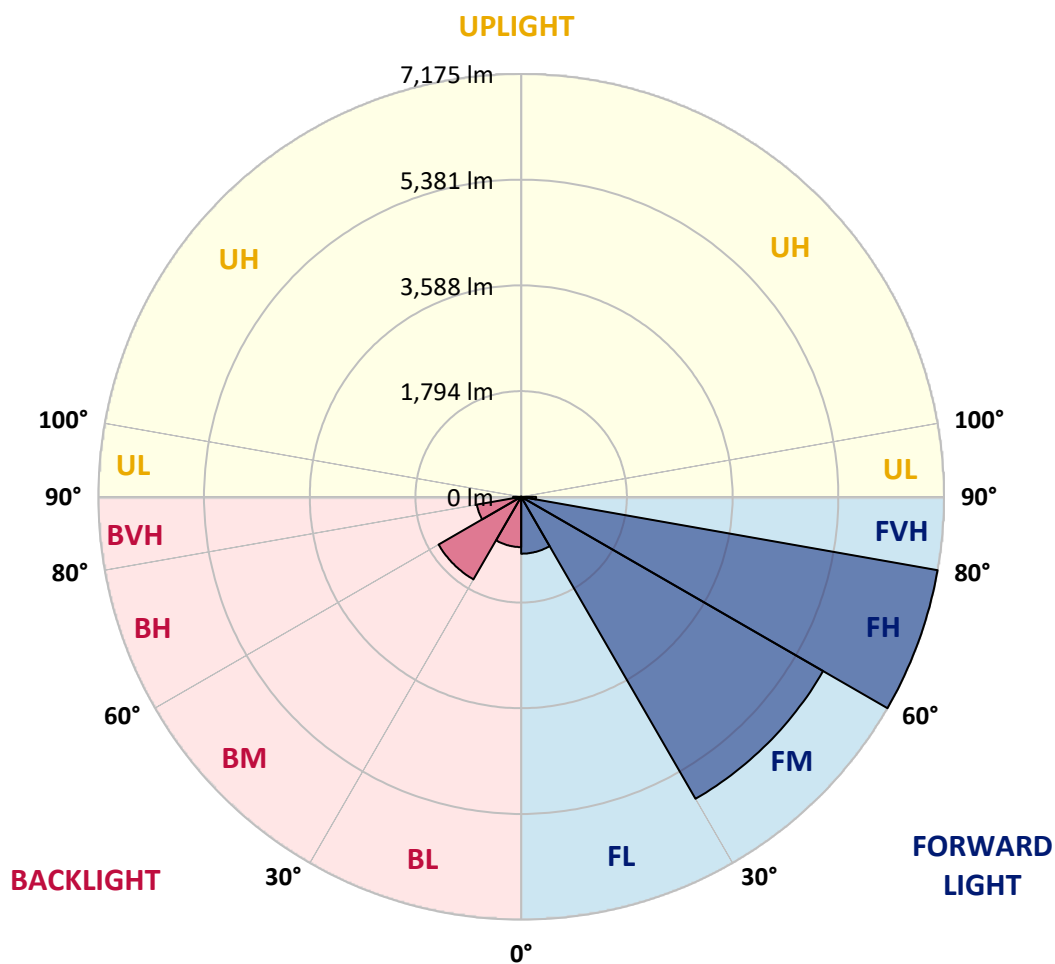
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	966.0	5.5			
FM	(30°-60°)	5916.3	33.5			
FH	(60°-80°)	7175.1	40.6			G3/7500
FVH	(80°-90°)	251.7	1.4			G3/500
BL	(0°-30°)	853.4	4.8	B2/1000		
BM	(30°-60°)	1618.4	9.2	B2/2500		
BH	(60°-80°)	763.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	137.7	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6
2.5°	2563.4	2568.4	2562.5	2570.3	2582.9	2596.5	2605.9	2619.4	2634.7	2656.0	2661.0
5°	2442.8	2450.4	2450.4	2464.1	2488.7	2510.8	2531.1	2553.2	2585.5	2622.0	2636.4
7.5°	2310.4	2314.6	2322.2	2342.6	2378.2	2409.7	2438.5	2474.2	2518.4	2566.8	2592.2
10°	2150.8	2156.7	2168.6	2197.4	2245.9	2289.1	2330.7	2380.0	2436.1	2496.3	2528.6
12.5°	2037.8	2036.1	2041.2	2062.4	2104.9	2157.6	2217.9	2280.7	2349.4	2419.9	2459.0
15°	1999.6	1990.2	1970.7	1965.7	1988.5	2041.2	2110.8	2188.1	2270.4	2355.4	2403.8
17.5°	2023.4	2007.2	1953.8	1914.7	1911.3	1951.2	2025.1	2111.7	2206.8	2310.4	2370.6
20°	2172.8	2134.6	2002.9	1912.1	1880.7	1900.2	1964.8	2056.5	2168.6	2306.1	2383.4
22.5°	2530.2	2474.2	2194.9	2025.8	1919.8	1895.9	1944.4	2042.0	2172.8	2358.8	2457.2
25°	3050.7	2971.0	2524.3	2309.5	2090.4	1963.9	1975.0	2075.2	2233.2	2481.1	2600.0
27.5°	3461.8	3410.0	2954.8	2709.4	2401.2	2147.4	2074.3	2158.4	2356.1	2681.4	2802.8
30°	3706.3	3674.8	3415.0	3162.8	2797.7	2439.4	2264.5	2314.6	2548.9	2959.1	3059.3
32.5°	3989.8	3971.1	3843.8	3612.0	3225.7	2823.3	2566.0	2548.2	2807.1	3292.7	3338.6
35°	4283.6	4277.7	4202.9	4036.6	3685.0	3329.2	2965.9	2845.3	3088.1	3639.2	3610.4
37.5°	4557.1	4546.9	4503.5	4406.8	4165.6	3872.7	3373.4	3150.1	3391.3	3970.4	3842.1
40°	5060.6	4980.7	4832.1	4759.2	4651.2	4330.4	3696.9	3434.6	3705.4	4286.1	4042.5
42.5°	5674.5	5544.6	5267.7	5167.5	5152.2	4691.1	3917.7	3710.6	4022.2	4599.5	4239.5
45°	6157.6	6035.3	5796.8	5670.2	5726.3	5018.1	4139.3	4005.1	4348.2	4928.1	4442.4
47.5°	6673.0	6481.0	6165.2	6203.4	6325.7	5327.2	4365.1	4321.9	4705.7	5295.8	4694.6
50°	6691.7	6544.7	6406.3	6634.8	6825.0	5611.5	4647.9	4653.8	5143.0	5758.5	5030.0
52.5°	6303.6	6272.2	6492.0	6851.3	7125.6	5836.6	4969.6	4996.9	5702.5	6290.0	5398.5
55°	6167.8	6132.0	6385.9	6775.7	7166.4	6022.6	5318.6	5367.9	6379.2	6850.4	5757.6
57.5°	6498.8	6420.0	6436.9	6740.1	7066.9	6226.3	5699.1	5798.4	7114.5	7340.4	5988.6
60°	7424.3	7255.5	6934.4	6926.8	7120.4	6532.1	6138.8	6260.3	7878.6	7574.7	5898.6
62.5°	8722.6	8553.7	7952.6	7561.1	7532.3	7036.4	6678.9	6711.1	8320.2	7257.1	5349.3
65°	10127.9	9976.8	9305.2	8752.3	8485.7	7871.9	7306.3	6912.4	8175.9	6383.5	4388.1
67.5°	11833.8	11671.5	11094.1	10583.8	10327.4	9220.2	7747.0	6719.7	7259.7	4945.1	3154.4
70°	13026.7	12861.1	12633.5	13047.0	13674.6	11165.5	7804.0	5935.9	5422.2	3286.8	1898.6
72.5°	11470.2	11393.0	11808.2	13549.7	16163.2	12345.7	7054.3	4321.9	3149.3	1744.9	1098.7
73°	10509.1	10492.1	11200.2	13197.3	16181.1	12164.1	6725.6	4017.0	2700.9	1543.7	1004.4
75°	4745.5	4882.2	6434.4	10080.4	14058.3	10023.5	4733.6	2304.4	1525.8	1066.5	758.3
77.5°	1140.3	1187.8	2013.2	4787.2	8878.1	5973.3	2144.8	1139.5	975.5	753.2	553.6
80°	485.6	501.8	775.2	1768.7	4180.0	2405.5	988.4	763.2	675.0	525.5	388.0
82.5°	270.0	287.1	439.9	802.4	1687.2	820.2	602.9	531.5	444.0	316.8	252.2
85°	152.9	162.1	257.3	448.3	714.9	329.4	360.9	353.2	250.5	163.1	124.0
87.5°	72.2	78.1	124.0	208.0	280.2	129.0	183.4	202.1	157.2	99.3	64.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6
2.5°	2667.0	2682.4	2700.2	2709.4	2718.0	2728.1	2738.2	2738.2	2740.0	2740.9
5°	2648.3	2679.7	2707.8	2719.6	2722.2	2722.2	2719.6	2706.1	2694.2	2699.2
7.5°	2609.2	2655.1	2678.8	2674.6	2642.3	2605.0	2573.6	2535.4	2515.8	2512.4
10°	2553.2	2605.9	2610.1	2567.6	2487.9	2408.0	2341.8	2277.3	2246.7	2239.0
12.5°	2491.2	2539.6	2512.4	2425.0	2296.7	2180.5	2096.3	2031.0	2002.1	1994.5
15°	2441.1	2474.2	2405.5	2267.9	2106.6	1983.5	1913.7	1865.5	1845.1	1839.2
17.5°	2414.8	2421.6	2296.0	2110.1	1938.5	1835.8	1792.4	1769.5	1761.8	1757.7
20°	2427.5	2380.0	2191.5	1963.1	1800.9	1728.7	1718.5	1712.6	1710.9	1708.4
22.5°	2491.2	2367.2	2095.6	1823.9	1680.3	1648.9	1657.5	1656.6	1654.8	1653.2
25°	2605.0	2378.2	2002.1	1691.4	1579.4	1572.5	1587.7	1587.7	1581.0	1581.0
27.5°	2755.3	2401.2	1897.8	1565.6	1487.6	1488.4	1500.3	1497.0	1489.3	1484.2
30°	2938.6	2415.6	1775.5	1452.8	1401.8	1398.4	1401.8	1387.4	1364.4	1362.8
32.5°	3126.4	2397.8	1633.7	1352.6	1311.0	1303.4	1300.8	1280.4	1254.1	1246.4
35°	3296.2	2332.4	1489.3	1272.8	1224.4	1207.5	1219.4	1212.4	1188.7	1182.7
37.5°	3420.2	2211.0	1359.4	1202.3	1162.4	1158.1	1165.8	1168.3	1140.3	1134.3
40°	3503.3	2046.3	1248.2	1142.9	1150.5	1134.3	1108.9	1091.1	1082.5	1080.0
42.5°	3570.4	1874.8	1154.8	1114.9	1153.0	1106.4	1051.2	1022.3	1037.6	1044.4
45°	3647.6	1707.5	1076.6	1080.0	1140.3	1074.1	1011.3	983.3	989.3	990.9
47.5°	3753.8	1503.7	992.6	1024.0	1097.8	1052.0	986.6	946.7	918.8	906.0
50°	3900.7	1262.6	905.1	961.2	1056.2	1035.9	948.5	906.0	854.2	842.3
52.5°	4002.6	1037.6	833.0	908.5	1019.0	1003.6	917.9	862.7	808.3	798.1
55°	3947.4	861.8	770.2	849.9	969.6	963.6	892.4	818.6	776.1	767.5
57.5°	3671.4	750.6	721.7	794.8	909.4	929.8	858.4	781.2	750.6	744.6
60°	3145.0	681.0	691.2	757.3	860.1	895.8	824.5	760.8	740.4	736.2
62.5°	2440.3	634.2	668.2	730.2	821.9	872.0	805.8	758.3	750.6	745.4
65°	1748.2	596.9	643.6	703.1	787.1	849.9	799.0	754.9	756.5	752.2
67.5°	1187.8	563.8	613.9	672.5	753.2	830.4	789.6	743.0	764.2	759.2
70°	831.3	531.5	579.1	633.3	710.7	803.3	772.7	725.2	723.4	703.1
72.5°	648.7	489.1	531.5	579.1	656.3	765.1	738.7	685.2	657.2	636.0
73°	619.0	478.9	519.6	567.2	644.4	755.6	729.5	674.1	642.8	623.3
75°	512.0	434.8	472.1	514.5	593.5	711.5	683.5	624.1	584.2	572.3
77.5°	402.5	371.9	407.5	445.8	523.1	647.1	615.5	558.8	536.6	526.4
80°	298.1	308.2	339.7	373.5	453.4	578.2	550.2	493.3	591.8	567.2
82.5°	209.8	233.5	262.3	293.0	380.4	511.2	477.1	418.6	433.0	360.0
85°	124.0	152.9	180.1	206.3	274.2	423.7	394.0	333.7	273.3	260.7
87.5°	72.2	84.9	92.6	119.7	188.5	319.2	277.6	247.0	141.8	95.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)