

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: P200684

Luminaire Tested: **GWC-AF-02-LED-E1-T4FT-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200684
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: GWC-AF-02-LED-E1-T4FT-8030-600
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 615mA 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: 6718 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

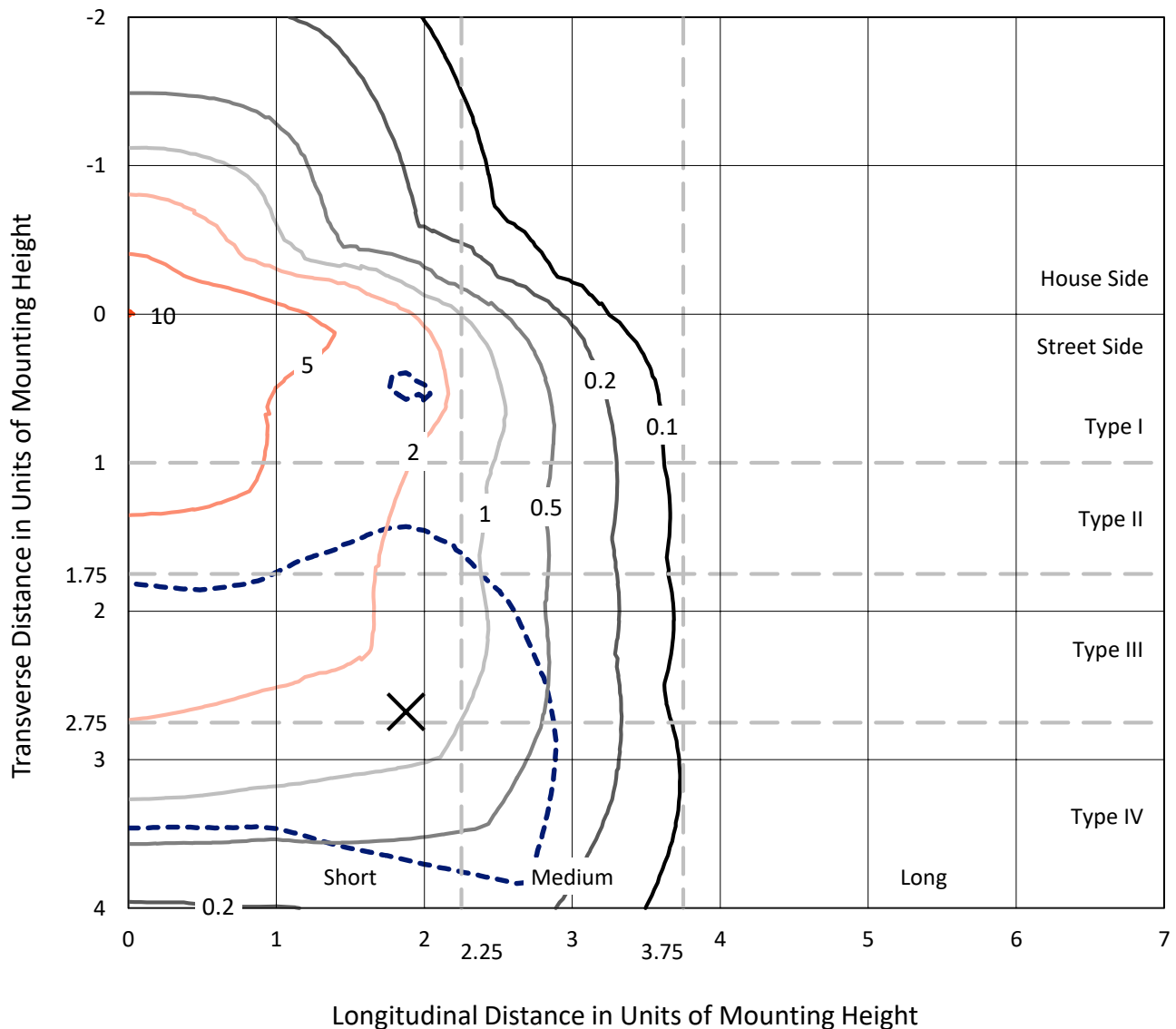


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

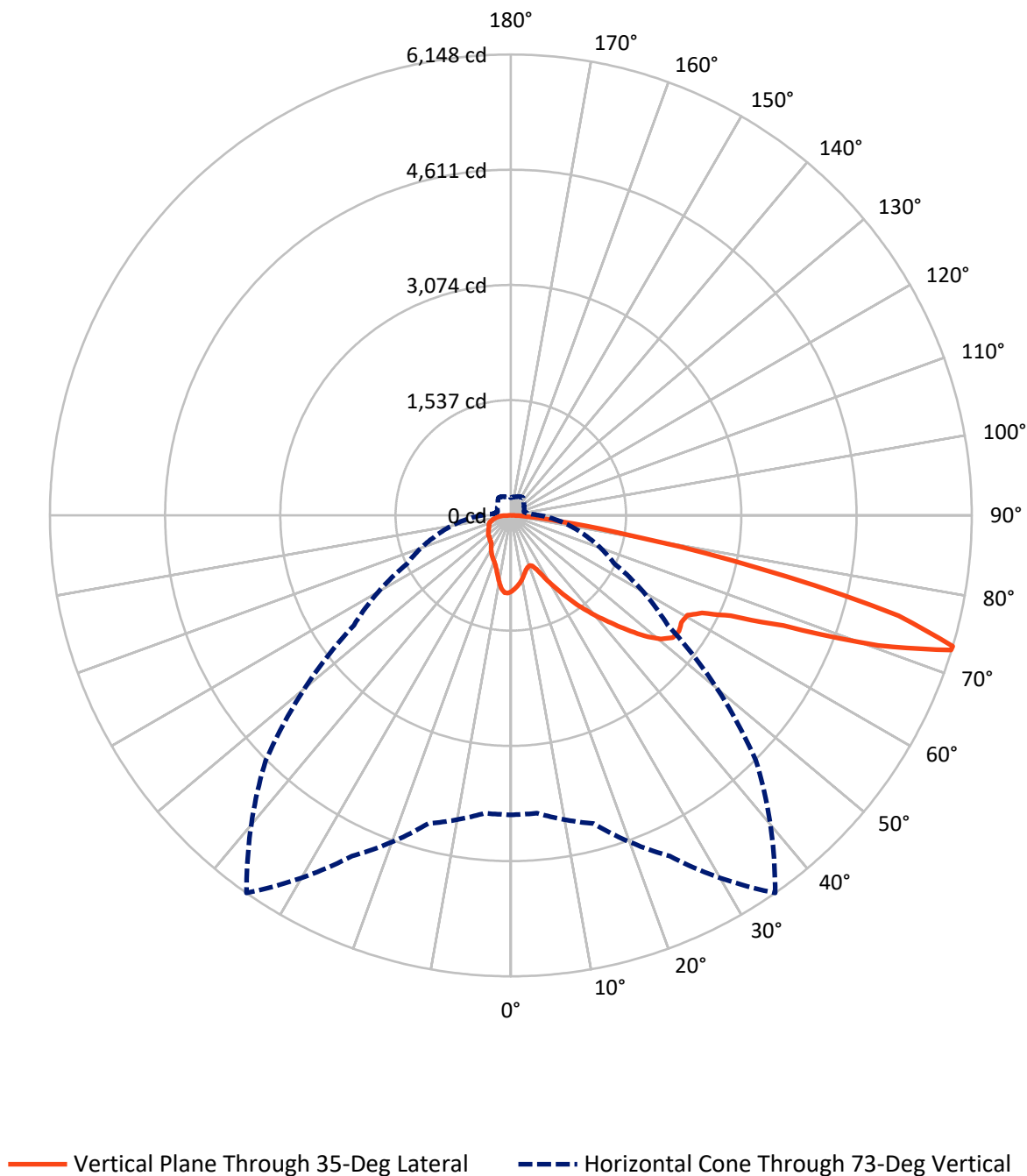


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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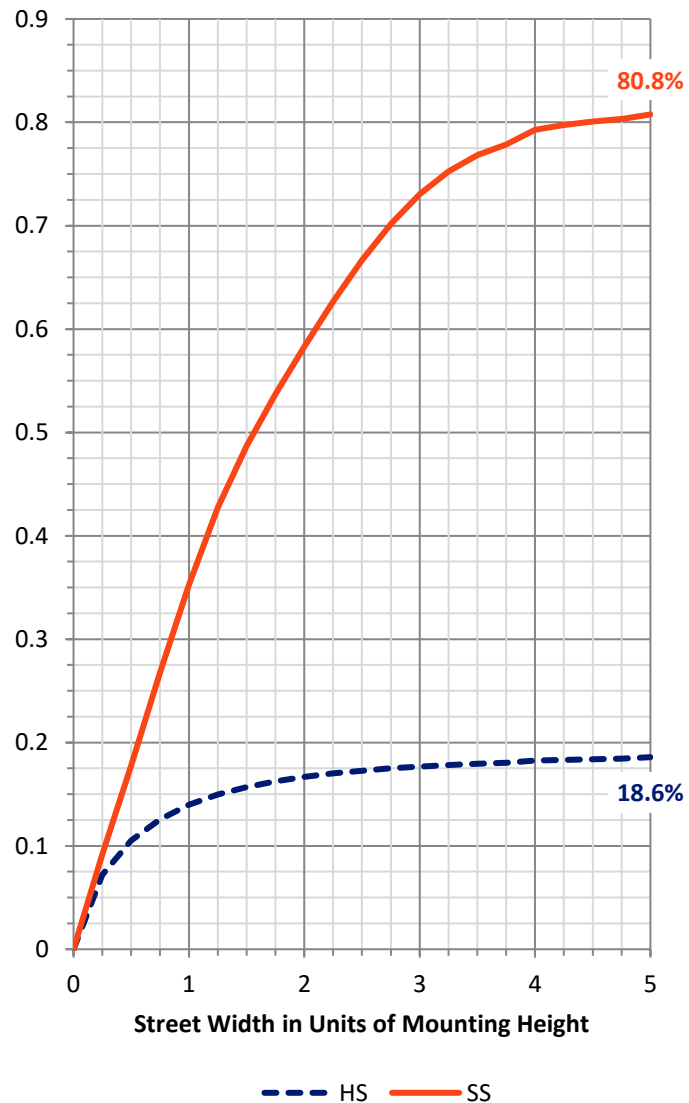
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1281.3	0.0	1281.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	5436.7	0.0	5436.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	6718.0	0.0	6718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	1.4
10°-20°	229.1	3.4
20°-30°	370.4	5.5
30°-40°	621.1	9.2
40°-50°	957.3	14.3
50°-60°	1284.4	19.1
60°-70°	1711.0	25.5
70°-80°	1305.0	19.4
80°-90°	147.9	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°	6718.0	100.0
0°-180°	6718.0	100.0

Coefficient of Utilization



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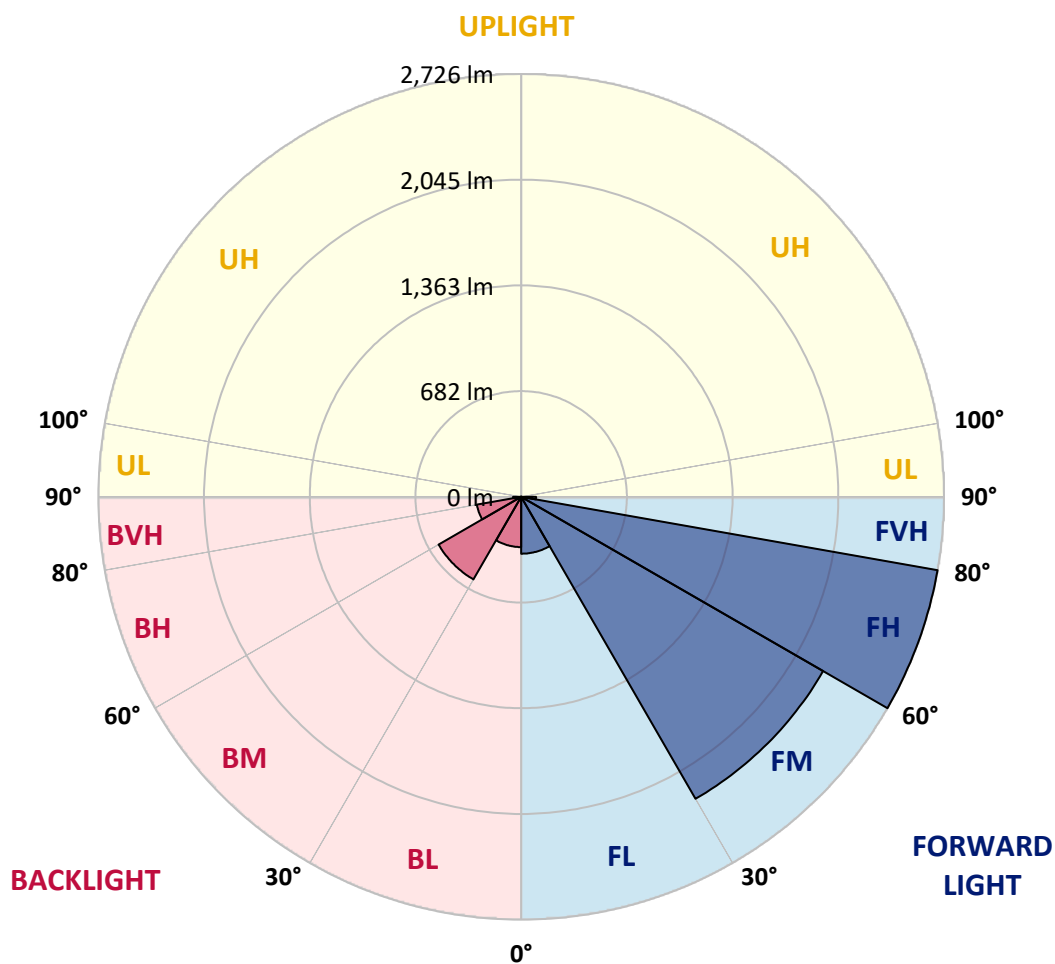
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	367.0	5.5			
FM	(30°-60°)	2247.9	33.5			
FH	(60°-80°)	2726.2	40.6			G2/5000
FVH	(80°-90°)	95.6	1.4			G1/100
BL	(0°-30°)	324.2	4.8	B1/500		
BM	(30°-60°)	614.9	9.2	B1/1000		
BH	(60°-80°)	289.9	4.3	B1/500		G1/500
BVH	(80°-90°)	52.3	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0
2.5°	974.0	975.9	973.6	976.5	981.4	986.5	990.1	995.2	1001.1	1009.1	1011.1
5°	928.1	931.0	931.0	936.2	945.6	953.9	961.7	970.1	982.3	996.2	1001.7
7.5°	877.8	879.4	882.3	890.1	903.6	915.6	926.5	940.1	956.9	975.2	984.9
10°	817.2	819.4	823.9	834.9	853.3	869.7	885.6	904.3	925.6	948.5	960.7
12.5°	774.3	773.6	775.5	783.6	799.7	819.7	842.7	866.5	892.7	919.4	934.3
15°	759.7	756.2	748.8	746.8	755.5	775.5	802.0	831.4	862.7	894.9	913.3
17.5°	768.8	762.6	742.3	727.5	726.2	741.4	769.4	802.3	838.5	877.8	900.7
20°	825.6	811.0	761.0	726.5	714.6	722.0	746.5	781.4	823.9	876.2	905.6
22.5°	961.4	940.1	833.9	769.7	729.4	720.4	738.8	775.9	825.6	896.2	933.6
25°	1159.1	1128.8	959.1	877.5	794.3	746.2	750.4	788.5	848.5	942.7	987.8
27.5°	1315.3	1295.6	1122.7	1029.4	912.3	815.9	788.1	820.1	895.2	1018.8	1064.9
30°	1408.2	1396.2	1297.5	1201.7	1063.0	926.9	860.4	879.4	968.5	1124.3	1162.4
32.5°	1515.9	1508.8	1460.4	1372.4	1225.6	1072.7	974.9	968.1	1066.5	1251.1	1268.5
35°	1627.6	1625.3	1596.9	1533.7	1400.1	1264.9	1126.9	1081.1	1173.3	1382.7	1371.7
37.5°	1731.4	1727.6	1711.1	1674.3	1582.7	1471.4	1281.7	1196.9	1288.5	1508.5	1459.8
40°	1922.7	1892.4	1836.0	1808.2	1767.2	1645.3	1404.6	1304.9	1407.9	1628.5	1535.9
42.5°	2156.0	2106.6	2001.5	1963.4	1957.6	1782.4	1488.5	1409.8	1528.2	1747.6	1610.8
45°	2339.5	2293.1	2202.4	2154.4	2175.7	1906.6	1572.7	1521.7	1652.1	1872.4	1687.9
47.5°	2535.4	2462.5	2342.5	2357.0	2403.4	2024.0	1658.5	1642.1	1787.9	2012.1	1783.7
50°	2542.5	2486.7	2434.1	2520.9	2593.1	2132.1	1766.0	1768.2	1954.0	2187.9	1911.1
52.5°	2395.0	2383.1	2466.7	2603.1	2707.3	2217.6	1888.2	1898.5	2166.6	2389.9	2051.1
55°	2343.4	2329.9	2426.3	2574.4	2722.8	2288.3	2020.8	2039.5	2423.7	2602.8	2187.6
57.5°	2469.2	2439.2	2445.7	2560.9	2685.1	2365.7	2165.3	2203.1	2703.1	2788.9	2275.3
60°	2820.9	2756.7	2634.7	2631.8	2705.4	2481.8	2332.5	2378.6	2993.5	2878.0	2241.2
62.5°	3314.1	3249.9	3021.5	2872.8	2861.8	2673.4	2537.6	2549.9	3161.2	2757.3	2032.4
65°	3848.1	3790.6	3535.5	3325.4	3224.1	2990.9	2776.0	2626.3	3106.4	2425.4	1667.2
67.5°	4496.2	4434.6	4215.2	4021.3	3923.9	3503.2	2943.5	2553.1	2758.3	1878.9	1198.5
70°	4949.4	4886.5	4800.1	4957.2	5195.6	4242.3	2965.1	2255.3	2060.2	1248.8	721.4
72.5°	4358.1	4328.7	4486.5	5148.2	6141.2	4690.7	2680.2	1642.1	1196.6	663.0	417.5
73°	3992.9	3986.5	4255.5	5014.3	6147.9	4621.7	2555.4	1526.3	1026.2	586.5	381.6
75°	1803.1	1855.0	2444.7	3830.0	5341.4	3808.4	1798.5	875.6	579.7	405.2	288.1
77.5°	433.3	451.3	764.9	1818.9	3373.2	2269.5	814.9	432.9	370.7	286.2	210.3
80°	184.5	190.7	294.5	672.0	1588.2	913.9	375.5	290.0	256.5	199.7	147.4
82.5°	102.6	109.0	167.1	304.9	641.0	311.6	229.1	202.0	168.7	120.3	95.8
85°	58.1	61.6	97.8	170.3	271.6	125.2	137.1	134.2	95.2	61.9	47.1
87.5°	27.4	29.7	47.1	79.0	106.5	49.0	69.7	76.8	59.7	37.7	24.5
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°	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0
2.5°	1013.3	1019.1	1025.9	1029.4	1032.7	1036.5	1040.4	1040.4	1041.1	1041.4
5°	1006.2	1018.1	1028.8	1033.3	1034.3	1034.3	1033.3	1028.1	1023.6	1025.6
7.5°	991.4	1008.8	1017.8	1016.2	1004.0	989.8	977.8	963.3	955.9	954.6
10°	970.1	990.1	991.7	975.6	945.2	914.9	889.8	865.2	853.6	850.7
12.5°	946.5	964.9	954.6	921.4	872.7	828.5	796.5	771.7	760.7	757.8
15°	927.5	940.1	913.9	861.7	800.4	753.6	727.2	708.8	701.0	698.8
17.5°	917.5	920.1	872.3	801.7	736.5	697.5	681.0	672.3	669.4	667.8
20°	922.3	904.3	832.6	745.9	684.3	656.8	653.0	650.7	650.1	649.1
22.5°	946.5	899.4	796.2	693.0	638.4	626.5	629.7	629.4	628.8	628.1
25°	989.8	903.6	760.7	642.6	600.0	597.5	603.3	603.3	600.7	600.7
27.5°	1046.9	912.3	721.0	594.9	565.2	565.5	570.0	568.8	565.9	563.9
30°	1116.5	917.8	674.6	552.0	532.6	531.3	532.6	527.1	518.4	517.8
32.5°	1187.8	911.0	620.7	513.9	498.1	495.2	494.2	486.5	476.5	473.6
35°	1252.4	886.2	565.9	483.6	465.2	458.7	463.3	460.7	451.7	449.4
37.5°	1299.5	840.1	516.5	456.8	441.6	440.0	442.9	443.9	433.3	431.0
40°	1331.1	777.5	474.2	434.2	437.1	431.0	421.3	414.6	411.3	410.4
42.5°	1356.6	712.3	438.7	423.6	438.1	420.4	399.4	388.4	394.2	396.8
45°	1385.9	648.8	409.1	410.4	433.3	408.1	384.2	373.6	375.8	376.5
47.5°	1426.2	571.3	377.1	389.1	417.1	399.7	374.9	359.7	349.1	344.2
50°	1482.1	479.7	343.9	365.2	401.3	393.6	360.4	344.2	324.5	320.0
52.5°	1520.8	394.2	316.5	345.2	387.1	381.3	348.7	327.8	307.1	303.3
55°	1499.8	327.4	292.6	322.9	368.4	366.2	339.1	311.0	294.9	291.6
57.5°	1395.0	285.2	274.2	302.0	345.5	353.3	326.2	296.8	285.2	282.9
60°	1194.9	258.7	262.6	287.8	326.8	340.4	313.3	289.1	281.3	279.7
62.5°	927.2	241.0	253.9	277.4	312.3	331.3	306.2	288.1	285.2	283.2
65°	664.2	226.8	244.5	267.1	299.1	322.9	303.6	286.8	287.4	285.8
67.5°	451.3	214.2	233.2	255.5	286.2	315.5	300.0	282.3	290.3	288.4
70°	315.8	202.0	220.0	240.7	270.0	305.2	293.6	275.5	274.9	267.1
72.5°	246.5	185.8	202.0	220.0	249.4	290.7	280.7	260.3	249.7	241.6
73°	235.2	182.0	197.4	215.5	244.9	287.1	277.1	256.2	244.2	236.8
75°	194.5	165.2	179.4	195.5	225.5	270.3	259.7	237.1	222.0	217.4
77.5°	152.9	141.3	154.9	169.4	198.7	245.8	233.9	212.3	203.9	200.0
80°	113.2	117.1	129.0	141.9	172.3	219.7	209.0	187.4	224.9	215.5
82.5°	79.7	88.7	99.7	111.3	144.5	194.2	181.3	159.0	164.5	136.8
85°	47.1	58.1	68.4	78.4	104.2	161.0	149.7	126.8	103.9	99.0
87.5°	27.4	32.3	35.2	45.5	71.6	121.3	105.5	93.9	53.9	36.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)