

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: P200558

Luminaire Tested: **GWC-AF-02-LED-E1-5WQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-E1-5WQ-8030-800
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8627 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 86
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



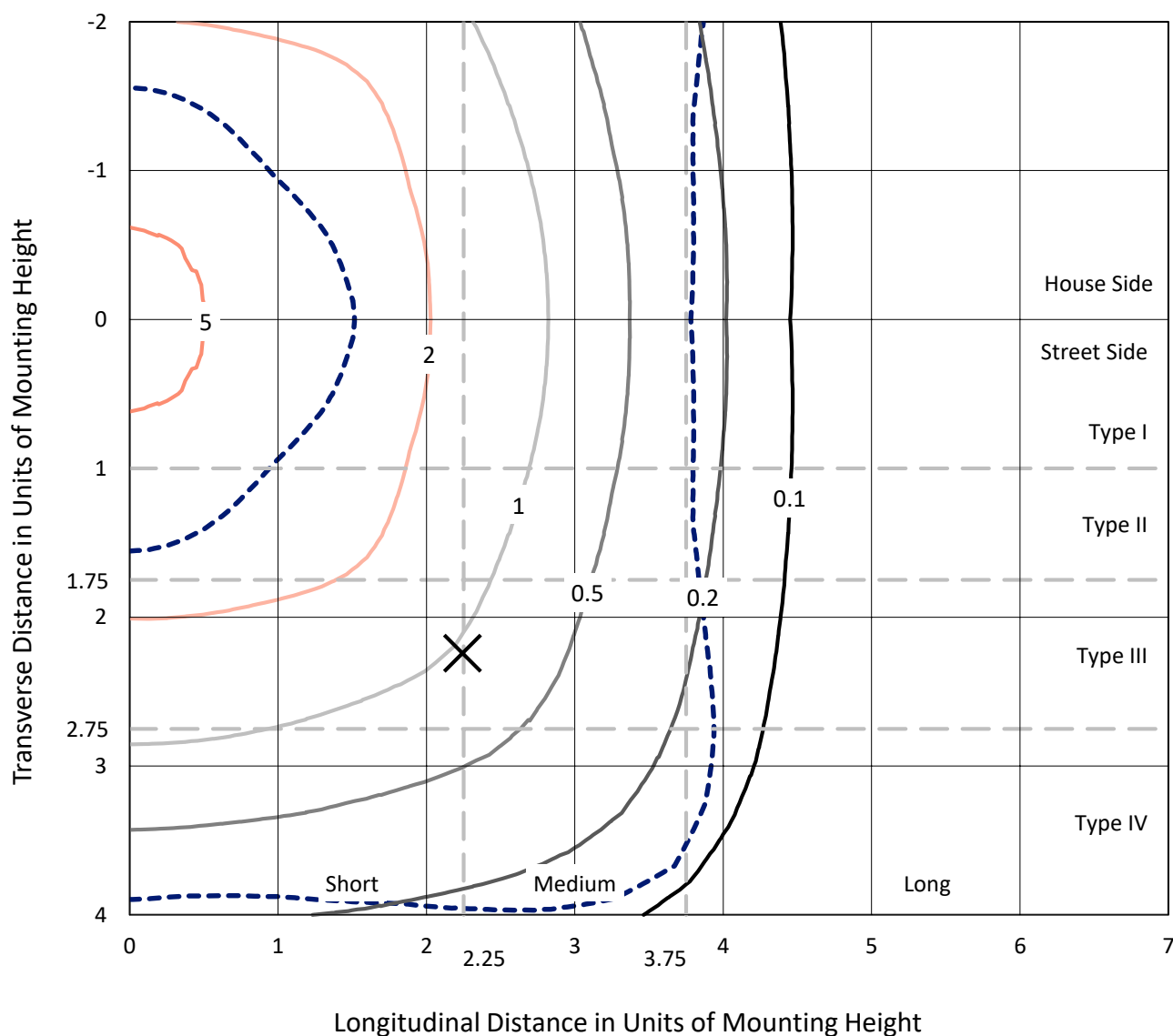
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

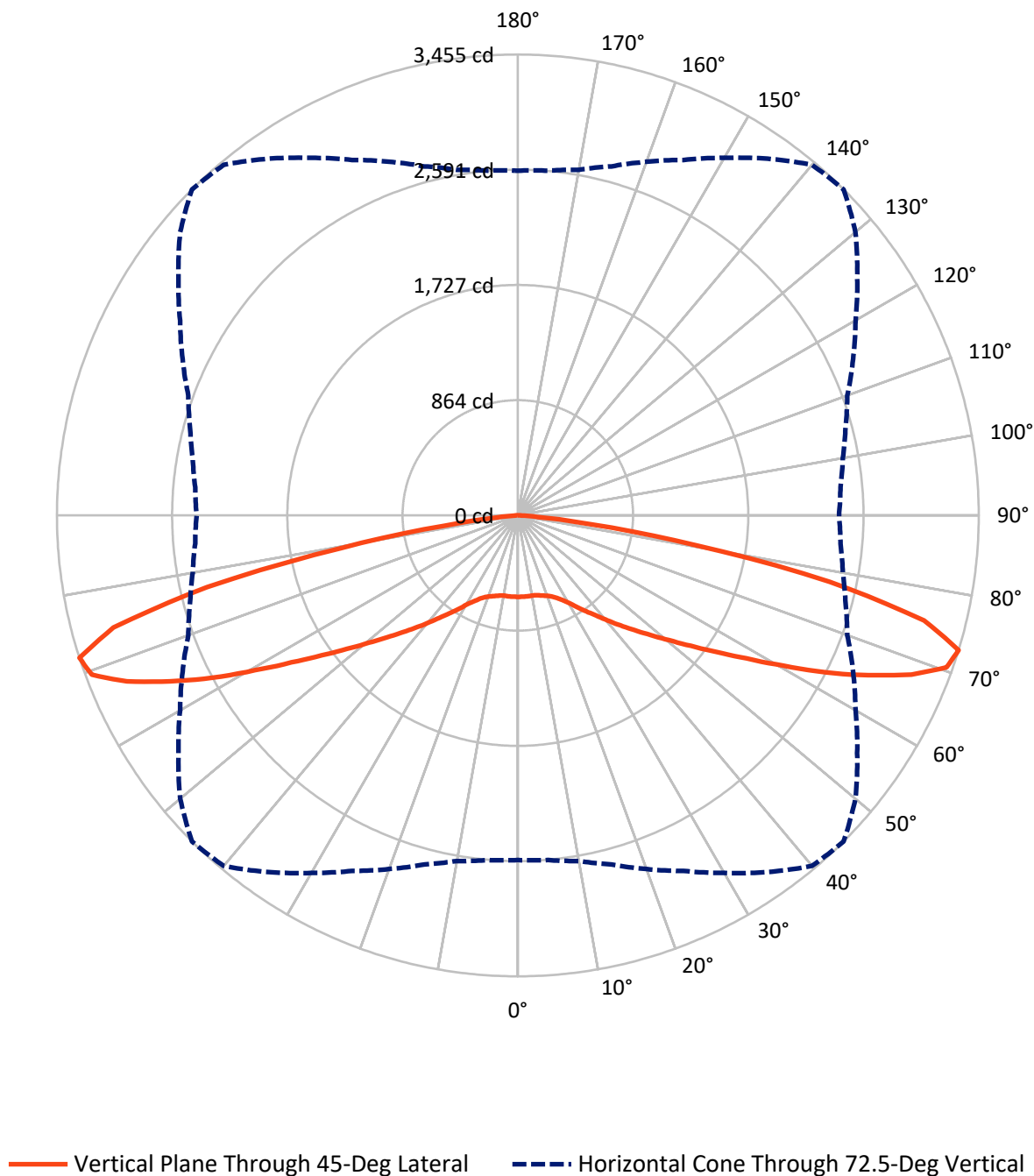


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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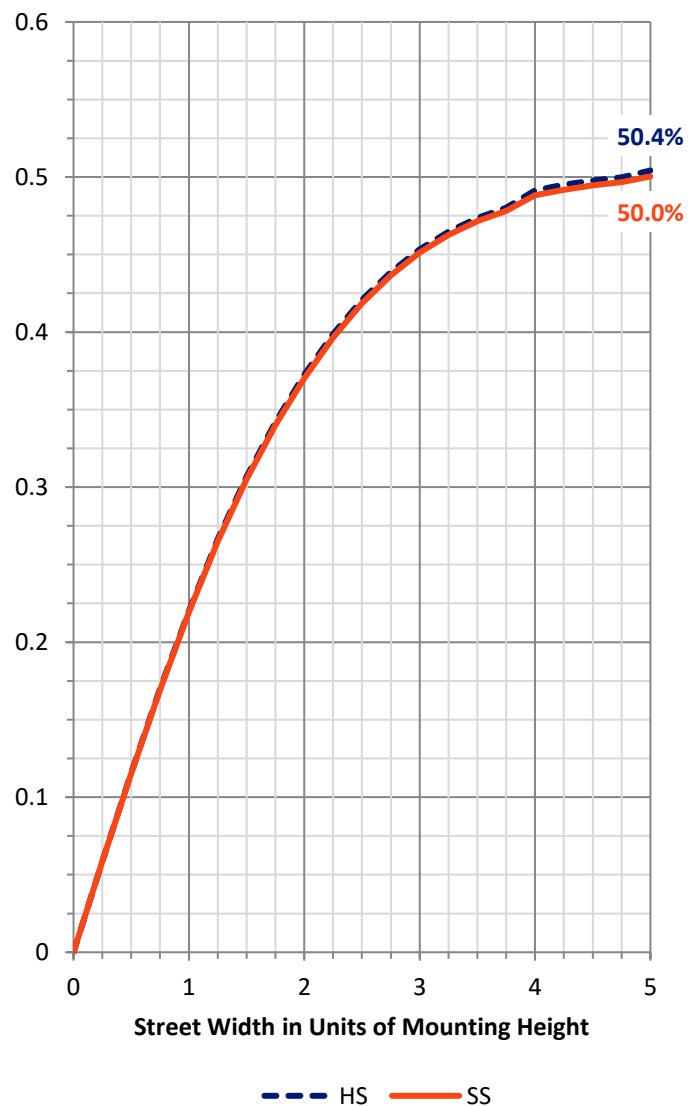
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4313.5	0.0	4313.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4313.5	0.0	4313.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8627.0	0.0	8627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	0.7
10°-20°	177.2	2.1
20°-30°	323.8	3.8
30°-40°	558.2	6.5
40°-50°	954.3	11.1
50°-60°	1546.8	17.9
60°-70°	2566.1	29.7
70°-80°	2260.1	26.2
80°-90°	182.2	2.1
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°	8627.0	100.0
0°-180°	8627.0	100.0

Coefficient of Utilization



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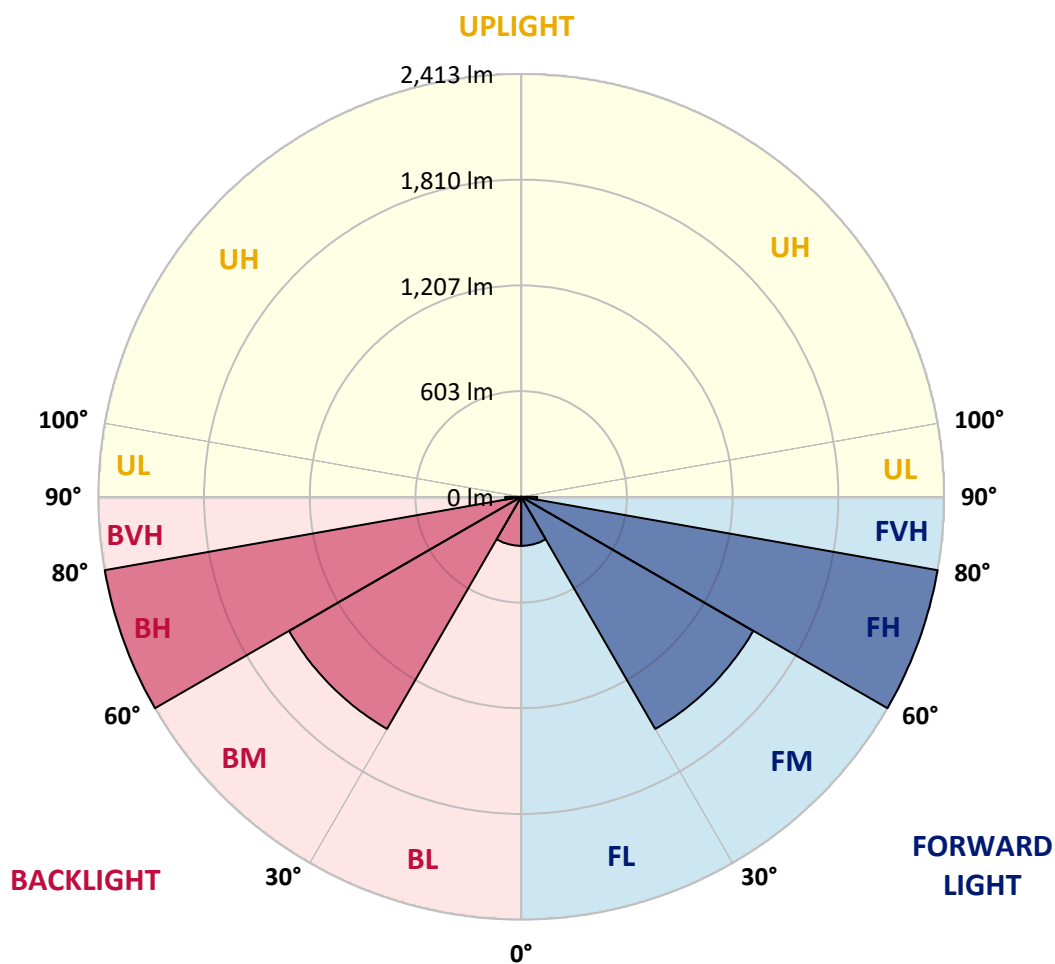
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	279.6	3.2			
FM	(30°-60°)	1529.7	17.7			
FH	(60°-80°)	2413.1	28.0			G2/5000
FVH	(80°-90°)	91.1	1.1			G1/100
BL	(0°-30°)	279.6	3.2	B1/500		
BM	(30°-60°)	1529.7	17.7	B2/2500		
BH	(60°-80°)	2413.1	28.0	B3/2500		G2/5000
BVH	(80°-90°)	91.1	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9
2.5°	610.9	611.3	611.7	611.3	611.3	610.9	610.5	610.9	610.5	609.7	610.1
5°	612.9	613.7	613.7	612.9	613.3	612.9	612.1	612.5	611.7	610.5	610.5
7.5°	615.3	615.7	615.7	614.9	615.3	614.5	613.7	613.3	612.5	610.9	609.7
10°	618.8	619.2	618.8	618.0	618.0	616.9	614.9	614.1	612.5	610.1	608.9
12.5°	622.8	623.2	622.8	622.0	621.6	619.6	618.0	616.9	615.7	613.7	611.7
15°	628.3	629.1	628.3	626.8	625.6	624.0	623.2	623.6	624.0	622.4	620.4
17.5°	638.6	639.0	637.8	634.3	632.7	631.1	631.1	631.9	633.1	632.3	630.3
20°	657.6	656.4	653.7	649.3	647.3	644.6	644.2	644.6	644.6	644.2	642.6
22.5°	681.4	680.6	677.0	671.5	668.7	667.1	664.7	662.8	662.4	661.2	659.6
25°	709.8	709.4	705.1	700.3	698.4	696.4	694.4	691.6	689.3	686.5	684.9
27.5°	746.2	744.7	738.3	736.0	733.2	732.0	729.2	726.1	724.1	720.5	718.5
30°	786.2	786.2	781.1	780.3	780.3	777.5	774.3	768.8	765.2	761.7	760.5
32.5°	826.2	826.6	821.4	823.0	824.2	826.2	827.0	825.0	822.6	822.2	819.8
35°	883.9	882.4	877.2	878.4	878.0	877.6	877.6	882.0	882.8	883.5	878.8
37.5°	955.6	955.6	950.4	950.4	948.0	945.7	942.5	945.3	949.6	950.8	947.6
40°	1037.5	1040.2	1033.9	1033.5	1034.3	1026.8	1023.2	1027.6	1030.3	1035.1	1031.5
42.5°	1134.0	1132.0	1125.7	1124.9	1120.6	1118.2	1115.0	1118.6	1122.9	1126.1	1127.3
45°	1226.6	1225.0	1217.9	1217.9	1213.5	1211.6	1213.1	1219.1	1221.1	1225.4	1229.8
47.5°	1318.0	1316.0	1311.3	1313.3	1313.6	1317.2	1322.4	1327.9	1333.4	1339.4	1341.3
50°	1411.4	1411.8	1406.6	1411.4	1417.3	1427.2	1441.1	1450.2	1461.6	1469.1	1471.5
52.5°	1496.5	1498.0	1503.6	1514.7	1526.5	1545.9	1569.7	1591.8	1610.8	1623.5	1622.7
55°	1598.5	1600.9	1614.4	1633.4	1652.7	1682.0	1717.2	1756.4	1788.1	1806.3	1794.8
57.5°	1729.1	1734.3	1749.3	1775.0	1803.9	1841.9	1890.2	1949.1	1998.2	2022.7	2004.1
60°	1908.4	1911.5	1929.7	1958.2	1993.0	2040.1	2104.6	2183.7	2253.0	2285.4	2264.1
62.5°	2144.6	2150.5	2165.1	2194.0	2229.6	2283.1	2361.8	2460.7	2547.0	2592.1	2543.8
65°	2426.7	2445.7	2457.9	2487.2	2520.5	2577.0	2659.3	2765.4	2858.0	2887.7	2831.9
67.5°	2706.0	2722.7	2744.0	2777.7	2811.3	2875.0	2951.4	3054.2	3155.9	3182.8	3096.2
70°	2828.3	2837.8	2871.0	2916.9	2981.4	3056.6	3144.8	3260.4	3386.2	3408.4	3298.4
72.5°	2583.4	2592.9	2630.1	2708.0	2820.4	2939.9	3093.8	3263.5	3429.7	3454.7	3303.1
75°	1953.9	1938.4	1993.4	2096.7	2248.2	2414.8	2630.1	2873.4	3113.6	3144.8	2964.0
77.5°	1009.8	1007.8	1049.3	1177.5	1358.4	1547.9	1784.9	2059.9	2294.9	2389.9	2242.7
80°	284.5	287.7	307.4	371.1	476.8	613.7	798.9	1056.5	1248.8	1346.9	1264.6
82.5°	111.6	120.3	127.8	139.7	153.5	173.7	231.9	345.0	462.9	553.2	453.1
85°	40.0	42.7	60.5	71.6	72.8	76.8	87.4	102.1	123.1	146.8	120.7
87.5°	15.0	16.6	19.4	32.0	31.7	28.9	35.2	36.8	27.7	25.3	31.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9
2.5°	609.3	609.7	609.7	610.1	610.5	610.5	611.3	611.3
5°	609.7	609.7	608.9	609.3	608.9	608.9	609.3	609.3
7.5°	608.9	608.6	607.8	607.4	606.6	606.6	606.6	606.6
10°	607.8	607.4	606.6	606.2	605.8	605.8	605.8	605.8
12.5°	610.9	609.7	608.9	608.6	608.6	608.6	608.6	608.6
15°	619.2	616.5	614.5	614.5	614.9	615.7	615.7	616.5
17.5°	629.5	626.4	624.4	622.8	623.6	624.8	625.6	626.4
20°	641.8	640.2	637.4	635.9	635.9	637.4	638.2	638.6
22.5°	658.8	657.6	656.4	654.5	654.5	655.2	656.8	656.8
25°	684.1	683.3	682.5	681.0	680.6	680.6	681.4	682.1
27.5°	715.8	716.2	715.4	715.0	713.8	713.4	714.6	714.2
30°	758.1	760.1	762.1	760.5	758.5	757.3	756.1	754.6
32.5°	815.5	813.1	811.5	808.8	805.2	802.0	799.7	796.9
35°	869.7	865.7	864.2	866.5	866.1	864.2	861.4	859.0
37.5°	936.2	935.4	936.2	940.5	939.7	941.7	936.2	935.8
40°	1020.1	1020.8	1026.4	1031.5	1034.3	1037.1	1033.9	1030.7
42.5°	1117.4	1117.0	1119.0	1126.1	1130.8	1134.0	1127.3	1126.5
45°	1220.3	1217.5	1219.1	1225.0	1229.8	1233.3	1225.8	1225.8
47.5°	1333.4	1328.7	1323.5	1330.3	1333.0	1335.4	1329.5	1327.5
50°	1459.7	1449.8	1438.7	1441.5	1441.5	1440.7	1433.1	1432.7
52.5°	1604.5	1586.3	1566.1	1558.6	1554.2	1549.5	1536.4	1530.1
55°	1771.1	1743.7	1712.1	1692.7	1682.4	1669.4	1647.6	1641.7
57.5°	1965.7	1923.0	1868.4	1844.6	1821.7	1800.3	1776.2	1769.5
60°	2196.4	2133.5	2061.1	2017.2	1992.2	1971.7	1946.7	1945.5
62.5°	2453.6	2354.3	2272.4	2232.8	2214.6	2196.4	2172.7	2175.8
65°	2715.1	2611.5	2534.7	2502.7	2485.6	2470.6	2446.9	2450.4
67.5°	2973.1	2877.8	2793.5	2760.6	2741.6	2722.7	2701.3	2704.8
70°	3158.3	3040.0	2945.0	2872.2	2826.7	2775.3	2742.0	2733.7
72.5°	3105.3	2922.9	2772.1	2627.7	2543.0	2474.2	2427.5	2407.3
75°	2687.4	2438.2	2244.3	2067.0	1967.3	1886.2	1827.2	1790.4
77.5°	1995.8	1715.7	1486.6	1282.4	1121.0	1012.5	936.2	886.7
80°	1092.5	830.9	607.4	426.9	313.8	260.8	230.3	215.6
82.5°	340.3	219.6	161.8	139.7	129.8	124.2	115.1	100.5
85°	108.4	95.0	88.2	84.3	80.3	70.0	48.3	43.9
87.5°	41.9	43.1	42.7	40.4	41.2	29.7	23.7	21.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)