

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: P454328

Luminaire Tested: **GALN-SA5B-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23077 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 204
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

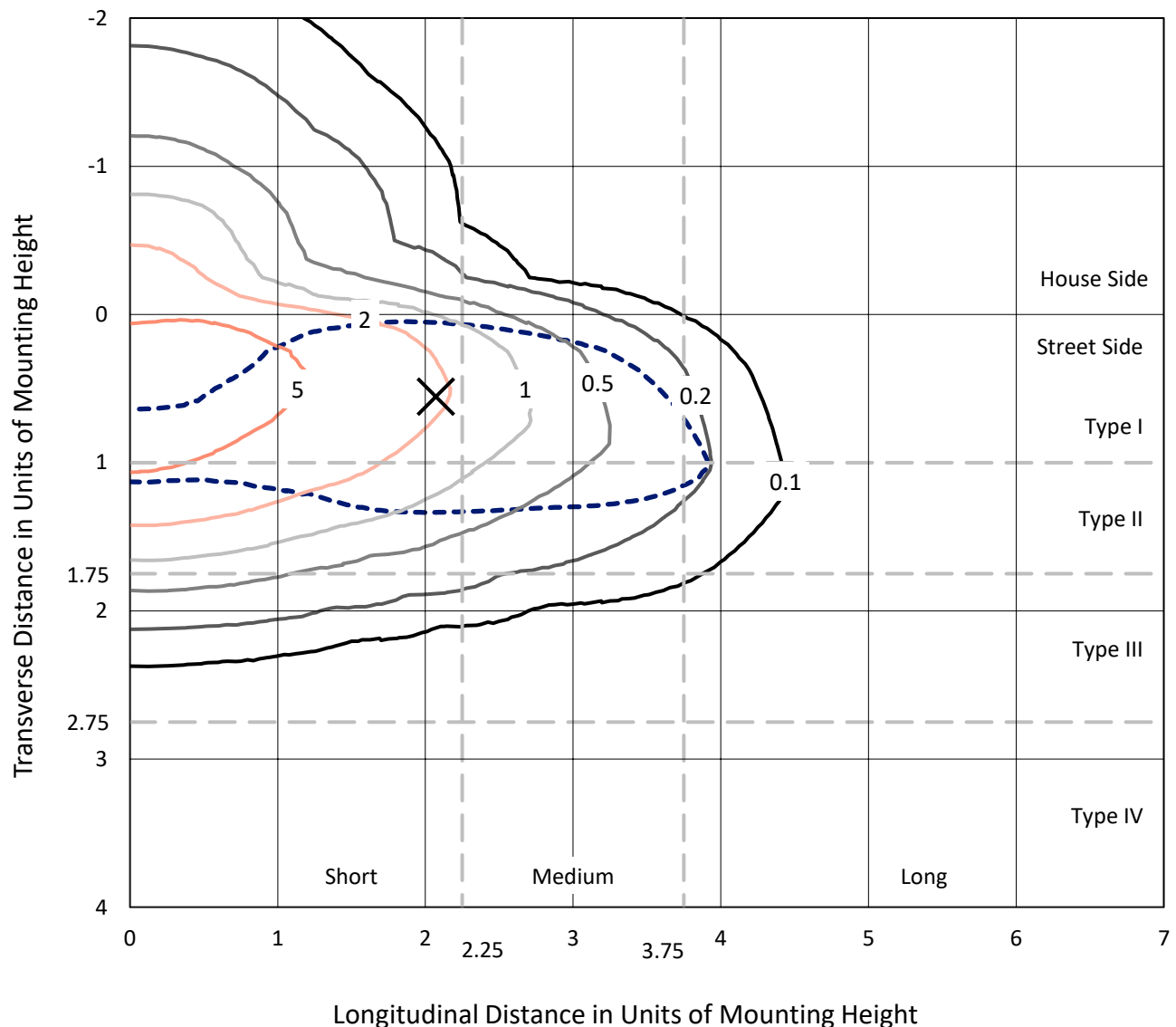


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

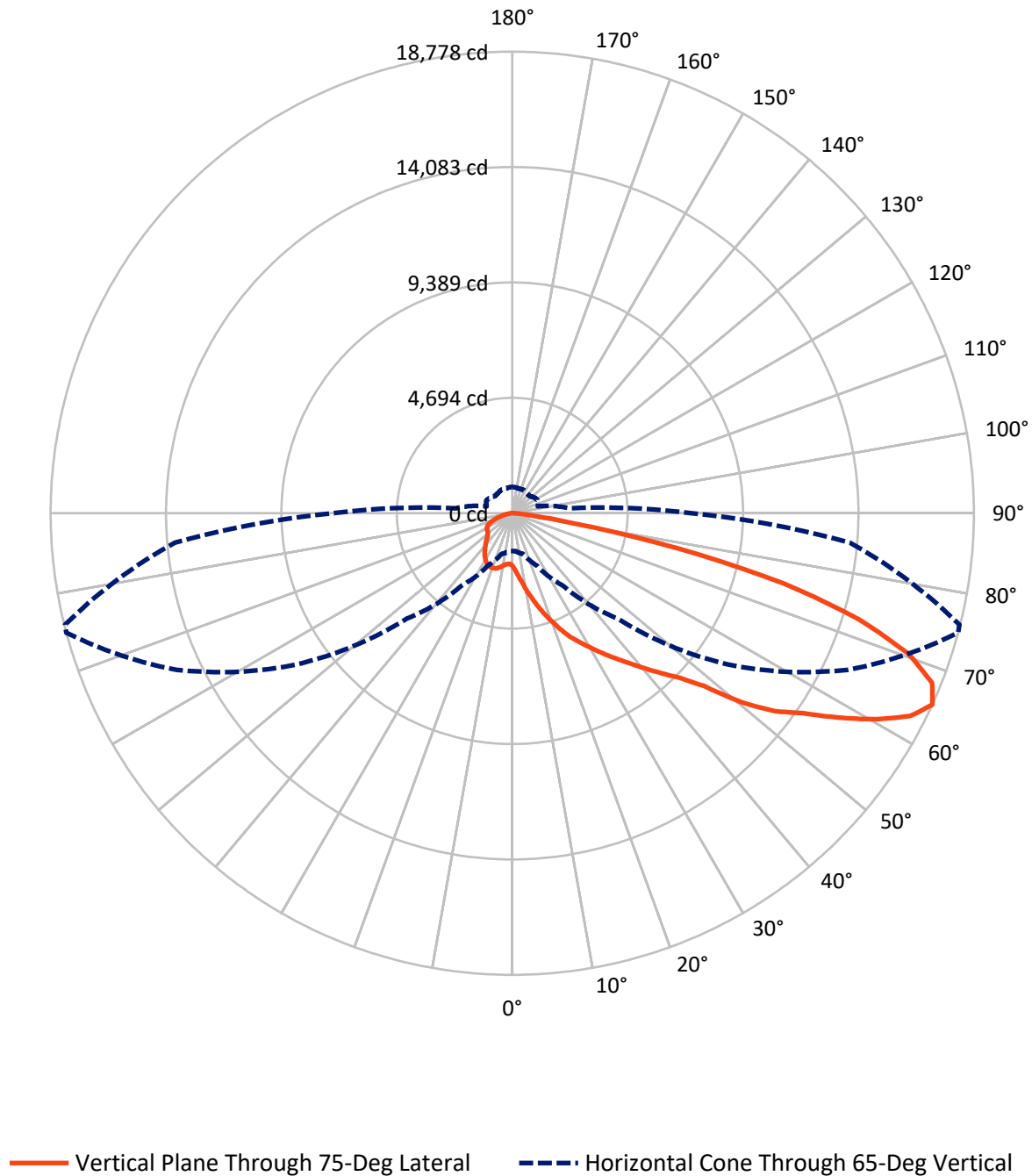


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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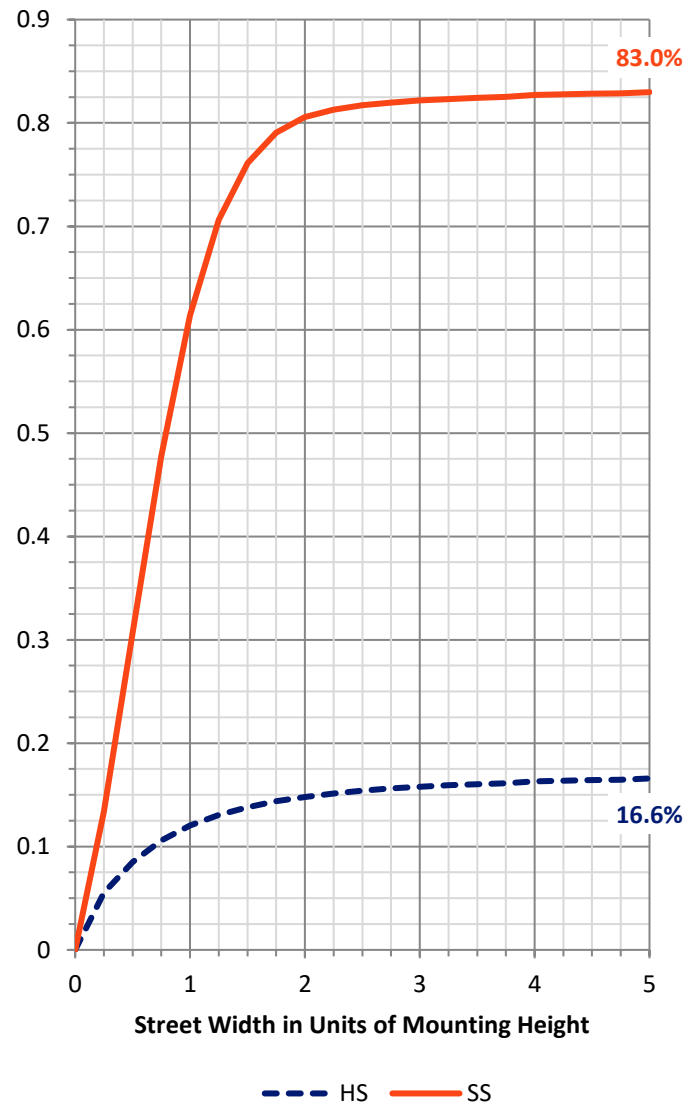
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3879.5	0.0	3879.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	19197.5	0.0	19197.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	23077.0	0.0	23077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.5	1.1
10°-20°	1020.4	4.4
20°-30°	1971.0	8.5
30°-40°	3201.5	13.9
40°-50°	4404.0	19.1
50°-60°	5199.6	22.5
60°-70°	4555.7	19.7
70°-80°	2174.9	9.4
80°-90°	289.4	1.3
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°	23077.0	100.0
0°-180°	23077.0	100.0

Coefficient of Utilization



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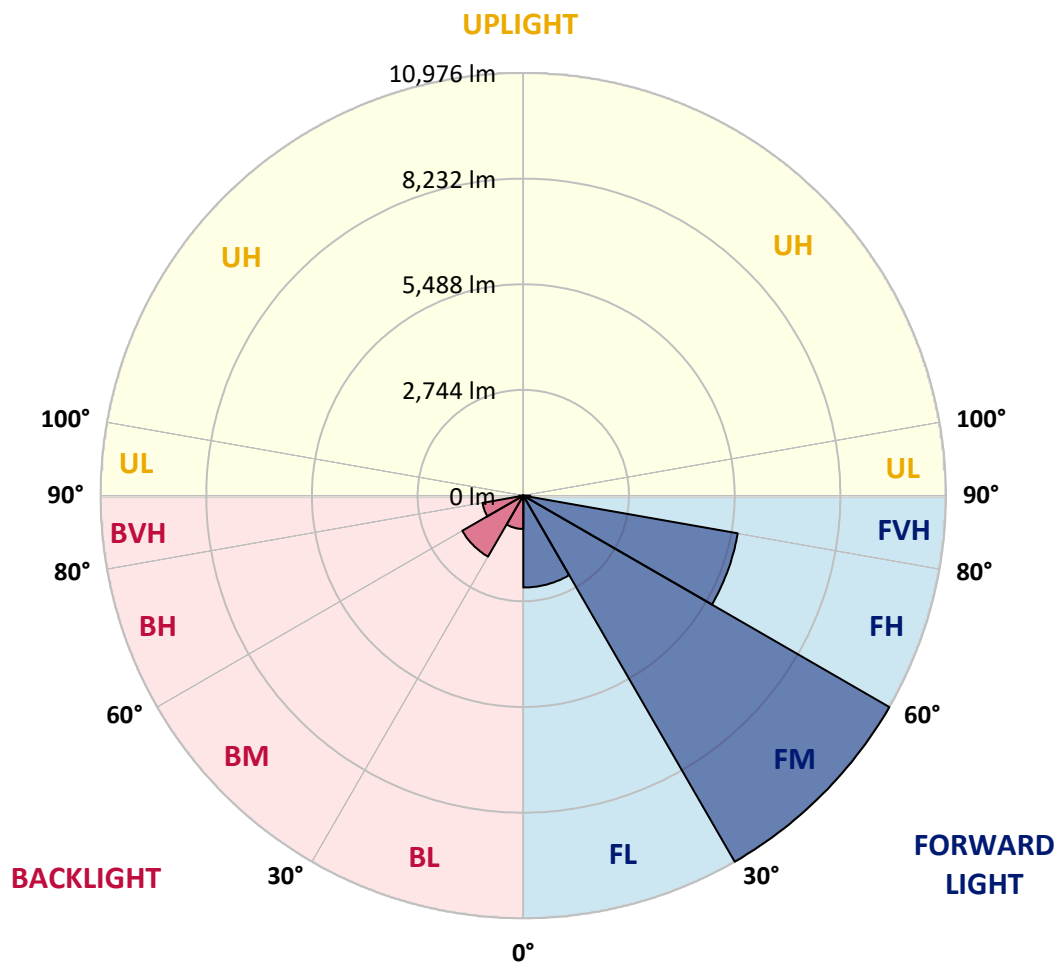
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2385.8	10.3			
FM	(30°-60°)	10975.9	47.6			
FH	(60°-80°)	5654.9	24.5			G3/7500
FVH	(80°-90°)	180.9	0.8			G2/225
BL	(0°-30°)	866.1	3.8	B2/1000		
BM	(30°-60°)	1829.2	7.9	B2/2500		
BH	(60°-80°)	1075.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	108.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1
2.5°	2848.8	2830.1	2810.0	2755.0	2696.1	2629.8	2534.7	2443.3	2321.9	2318.1	2228.0
5°	3638.7	3626.1	3537.3	3486.0	3349.5	3168.0	3014.1	2775.0	2553.4	2527.2	2351.9
7.5°	4364.6	4315.8	4282.0	4189.4	4054.2	3821.4	3523.5	3200.6	2830.1	2795.0	2504.6
10°	4911.6	4906.6	4889.1	4809.0	4707.6	4476.0	4145.6	3682.5	3180.5	3111.7	2689.9
12.5°	5320.9	5324.7	5322.2	5320.9	5248.3	5051.8	4693.8	4205.7	3534.8	3486.0	2903.9
15°	5590.0	5627.6	5642.6	5705.2	5711.5	5580.0	5272.1	4711.4	3934.1	3861.5	3134.2
17.5°	5767.8	5786.6	5856.7	5963.1	6049.4	6025.6	5751.5	5179.5	4342.1	4220.7	3373.3
20°	5938.0	5970.6	6024.4	6169.6	6322.3	6392.4	6199.6	5658.9	4746.4	4668.8	3637.4
22.5°	6292.2	6338.6	6357.3	6431.2	6561.4	6685.3	6597.7	6118.3	5189.5	5084.4	3917.8
25°	6891.8	6940.6	6888.0	6870.5	6913.1	6974.4	6955.6	6551.3	5607.6	5457.4	4183.1
27.5°	7672.9	7679.1	7576.5	7478.8	7373.7	7342.4	7284.8	6935.6	5970.6	5845.4	4449.8
30°	8511.5	8481.5	8311.2	8134.7	7957.0	7781.8	7616.5	7306.1	6374.9	6230.9	4711.4
32.5°	9290.0	9273.8	9084.8	8810.6	8510.2	8345.0	8010.8	7680.4	6807.9	6669.0	4980.5
35°	9873.3	9897.1	9689.3	9390.2	9062.2	8915.8	8494.0	8073.4	7256.0	7104.6	5273.4
37.5°	10287.6	10275.1	10091.1	9832.0	9544.1	9416.5	9058.5	8502.7	7737.9	7592.8	5593.8
40°	10435.3	10427.8	10291.4	10102.4	9919.6	9874.6	9649.3	8965.9	8289.9	8119.7	5979.3
42.5°	10341.5	10357.7	10267.6	10216.3	10182.5	10215.0	10236.3	9572.9	8892.0	8735.5	6397.4
45°	10053.6	10044.8	10032.3	10116.2	10306.4	10520.5	10817.1	10146.2	9546.6	9421.5	6958.1
47.5°	9539.1	9601.7	9633.0	9864.6	10280.1	10787.1	11485.5	10914.7	10496.7	10387.8	7813.0
50°	8819.4	8869.5	9054.7	9466.5	10086.1	10887.2	12138.9	12171.4	12081.3	11877.3	8741.8
52.5°	7695.4	7773.0	8154.8	8909.5	9688.1	10845.9	12534.4	13249.1	13368.0	13215.3	9656.8
55°	6437.4	6546.3	6949.4	7939.5	9139.8	10620.6	12807.3	13873.7	14348.1	14206.7	10538.0
57.5°	5205.8	5320.9	5735.2	6694.0	8183.5	10122.4	12986.3	14569.7	15682.4	15498.4	11634.5
60°	3901.5	4021.7	4377.2	5364.7	6821.7	9148.6	12864.9	15173.0	17015.5	16936.6	12732.2
62.5°	2517.1	2649.8	2959.0	3776.3	5243.3	7818.1	12215.2	15505.9	18169.5	18074.4	13533.3
65°	1533.3	1548.3	1718.6	2344.4	3588.6	6053.2	10729.5	15064.1	18777.9	18749.1	13777.4
67.5°	991.3	1015.1	1092.7	1404.4	2151.7	4204.4	8579.1	13605.9	18422.4	18412.4	13272.9
70°	837.4	844.9	879.9	947.5	1250.4	2549.7	6024.4	11281.5	17071.8	17071.8	12060.0
72.5°	748.5	758.5	771.0	792.3	892.5	1444.5	3594.9	8781.9	14739.9	14837.5	10265.1
75°	679.7	677.2	684.7	688.4	761.0	943.8	1858.8	6495.0	11402.9	11207.6	7433.8
77.5°	582.0	585.8	582.0	598.3	672.2	718.5	943.8	4358.4	6910.6	6657.7	3731.3
80°	478.1	484.4	490.7	500.7	574.5	545.7	567.0	1986.4	2556.0	2502.1	1152.8
82.5°	359.2	368.0	378.0	401.8	451.9	360.5	358.0	848.6	922.5	844.9	424.3
85°	145.2	171.5	259.1	282.9	284.1	197.8	220.3	354.2	376.8	368.0	166.5
87.5°	33.8	40.1	83.9	126.4	116.4	73.8	81.4	115.2	131.4	121.4	56.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1	2144.1
2.5°	2186.7	2142.9	2067.8	2010.2	1968.9	1932.6	1910.1	1896.3	1891.3	1890.1	1891.3
5°	2260.6	2182.9	2064.0	1988.9	1947.6	1923.8	1910.1	1908.8	1910.1	1911.3	1907.6
7.5°	2361.9	2250.5	2095.3	2025.2	1993.9	1976.4	1970.2	1967.7	1968.9	1967.7	1967.7
10°	2497.1	2344.4	2156.7	2084.1	2057.8	2037.8	2027.7	2021.5	2016.5	2011.5	2009.0
12.5°	2646.1	2448.3	2223.0	2152.9	2115.4	2084.1	2061.5	2045.3	2034.0	2022.7	2020.2
15°	2812.5	2558.5	2296.9	2199.2	2145.4	2099.1	2060.3	2034.0	2014.0	1997.7	1996.4
17.5°	2971.5	2662.3	2346.9	2220.5	2141.6	2076.6	2025.2	1988.9	1963.9	1942.6	1940.1
20°	3141.7	2761.2	2369.4	2206.7	2104.1	2025.2	1957.6	1913.8	1885.0	1861.3	1857.5
22.5°	3313.2	2845.1	2366.9	2162.9	2039.0	1946.4	1875.0	1828.7	1794.9	1771.1	1762.4
25°	3477.2	2912.7	2335.7	2092.8	1948.9	1852.5	1779.9	1737.3	1707.3	1678.5	1678.5
27.5°	3624.9	2952.7	2276.8	2007.7	1856.3	1754.9	1697.3	1658.5	1631.0	1612.2	1600.9
30°	3770.1	2971.5	2196.7	1900.1	1758.6	1672.3	1625.9	1603.4	1578.4	1557.1	1554.6
32.5°	3900.3	2967.8	2096.6	1794.9	1666.0	1604.7	1585.9	1568.4	1542.1	1512.0	1504.5
35°	4026.7	2942.7	1977.7	1679.8	1588.4	1564.6	1569.6	1544.6	1497.0	1459.5	1453.2
37.5°	4164.4	2897.7	1847.5	1585.9	1523.3	1545.8	1558.4	1503.3	1425.7	1366.8	1353.1
40°	4323.3	2846.3	1712.3	1492.0	1472.0	1528.3	1528.3	1426.9	1320.5	1284.2	1274.2
42.5°	4509.8	2803.8	1599.7	1413.2	1429.4	1485.8	1479.5	1325.5	1281.7	1263.0	1257.9
45°	4805.2	2788.8	1483.3	1344.3	1394.4	1435.7	1384.4	1290.5	1265.5	1250.4	1245.4
47.5°	5272.1	2806.3	1380.6	1293.0	1354.3	1385.6	1278.0	1266.7	1249.2	1227.9	1225.4
50°	5705.2	2790.0	1308.0	1264.2	1319.3	1325.5	1234.2	1237.9	1227.9	1204.1	1199.1
52.5°	6059.4	2738.7	1261.7	1249.2	1289.2	1220.4	1192.9	1206.6	1202.9	1172.8	1167.8
55°	6448.7	2707.4	1239.2	1249.2	1269.2	1129.0	1154.1	1174.1	1169.1	1147.8	1146.5
57.5°	6920.6	2713.7	1222.9	1252.9	1249.2	1082.7	1115.3	1139.0	1137.8	1131.5	1131.5
60°	7403.7	2716.2	1197.9	1251.7	1225.4	1046.4	1075.2	1109.0	1111.5	1115.3	1115.3
62.5°	7564.0	2607.3	1149.1	1229.2	1172.8	1011.4	1037.7	1084.0	1081.5	1091.5	1092.7
65°	7264.8	2305.6	1076.5	1177.8	1105.2	986.3	1008.9	1051.4	1037.7	1063.9	1068.9
67.5°	6612.7	1907.6	963.8	1085.2	1030.1	960.0	990.1	1006.4	981.3	1032.6	1033.9
70°	5715.2	1489.5	821.1	953.8	945.0	932.5	975.1	950.0	915.0	977.6	965.1
72.5°	4779.0	1137.8	655.9	779.8	831.1	891.2	948.8	877.4	828.6	847.4	824.9
75°	3589.8	841.1	527.0	610.8	692.2	832.4	925.0	789.8	714.7	697.2	692.2
77.5°	1830.0	549.5	394.3	456.9	519.5	752.3	892.5	687.2	592.0	564.5	552.0
80°	653.4	341.7	277.9	315.4	350.5	647.1	779.8	568.3	459.4	454.4	459.4
82.5°	302.9	220.3	186.5	206.5	207.8	431.8	594.6	424.3	349.2	530.7	448.1
85°	130.2	110.1	105.1	102.6	95.1	192.8	334.2	227.8	355.5	159.0	146.4
87.5°	38.8	43.8	38.8	28.8	21.3	21.3	33.8	12.5	8.8	6.3	6.3
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)