

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: P452936

Luminaire Tested: **GALN-SA3D-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452936
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-SA3D-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18702 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 184
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



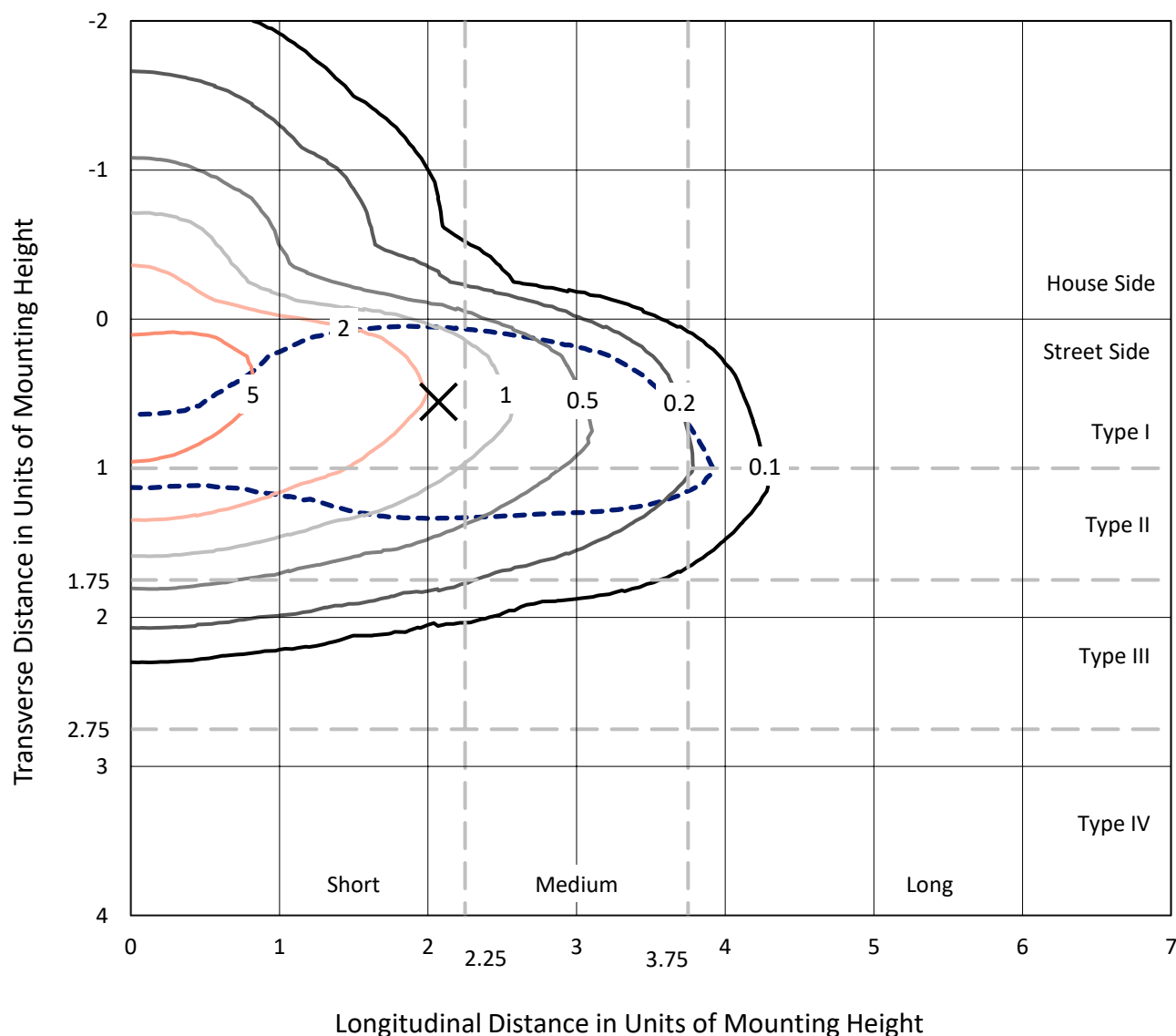
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



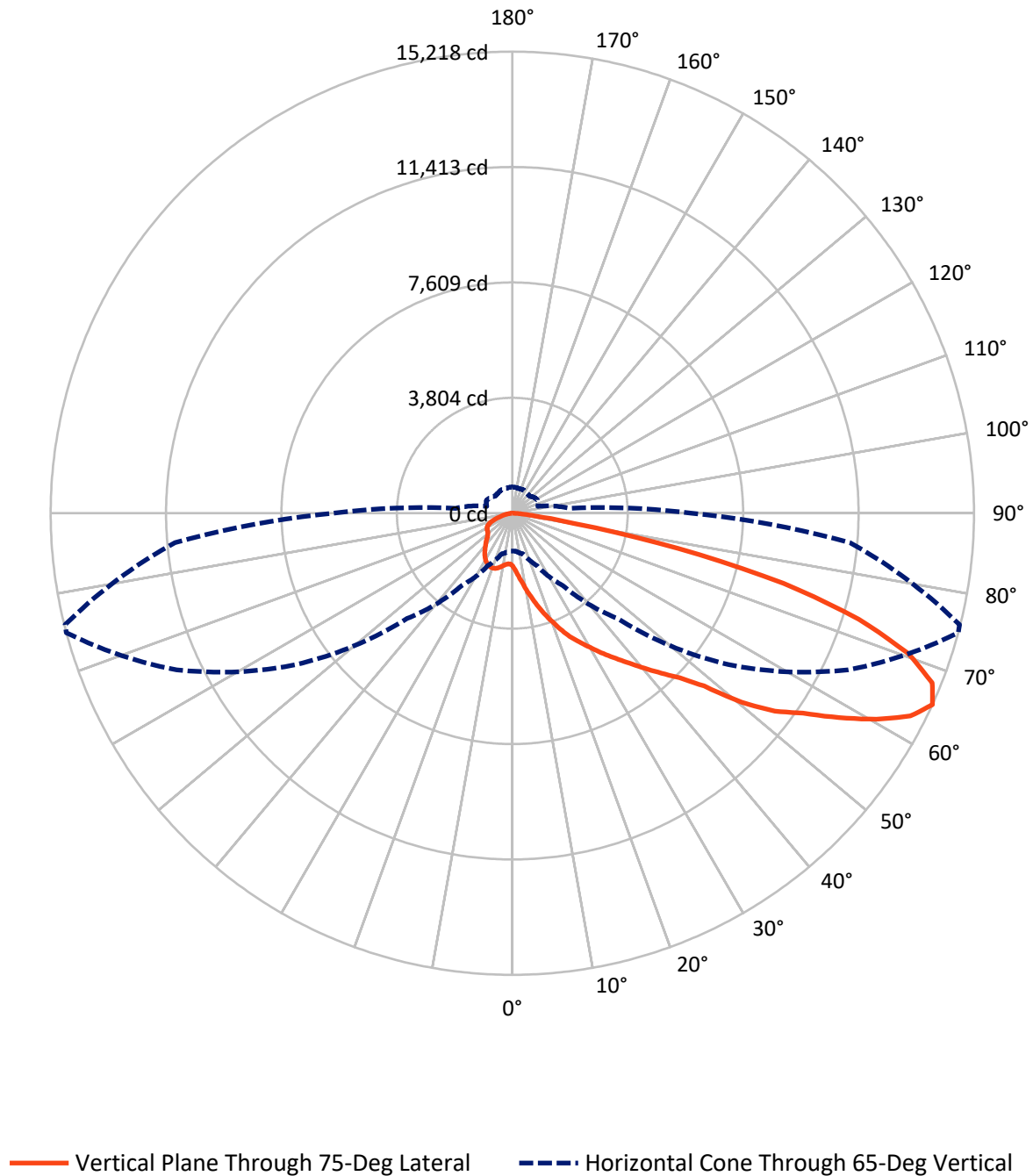
Based on 25 foot mounting height. Maximum calculated value = 7.2 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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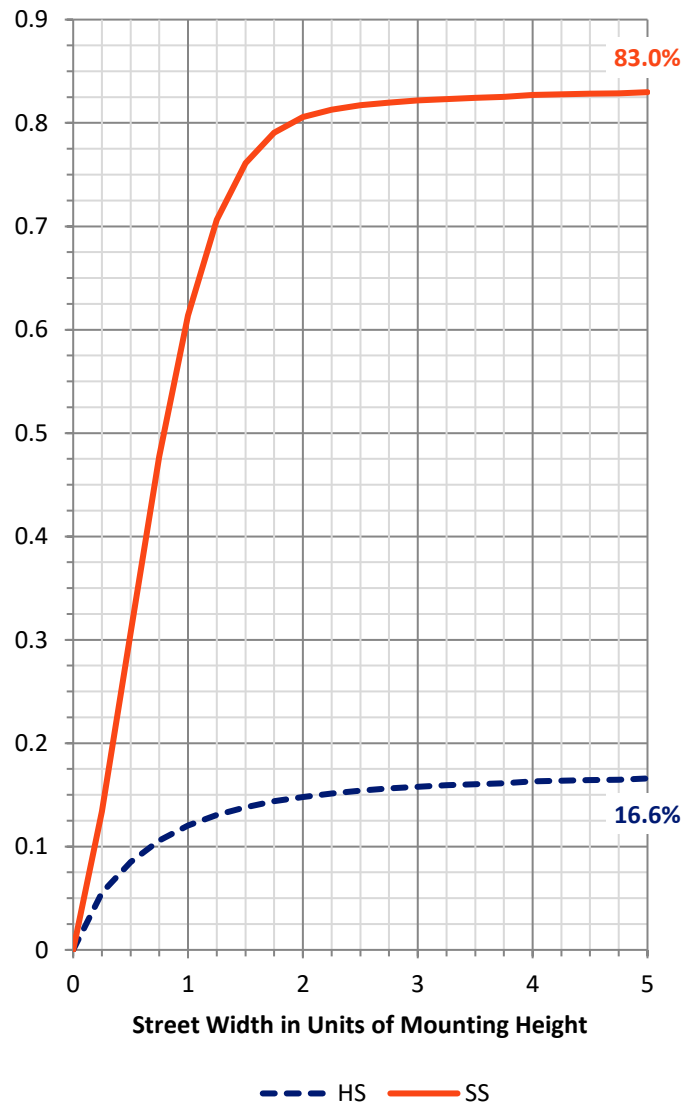
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3144.0	0.0	3144.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	15558.0	0.0	15558.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	18702.0	0.0	18702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	1.1
10°-20°	826.9	4.4
20°-30°	1597.3	8.5
30°-40°	2594.6	13.9
40°-50°	3569.1	19.1
50°-60°	4213.8	22.5
60°-70°	3692.0	19.7
70°-80°	1762.6	9.4
80°-90°	234.5	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°	18702.0	100.0
0°-180°	18702.0	100.0

Coefficient of Utilization



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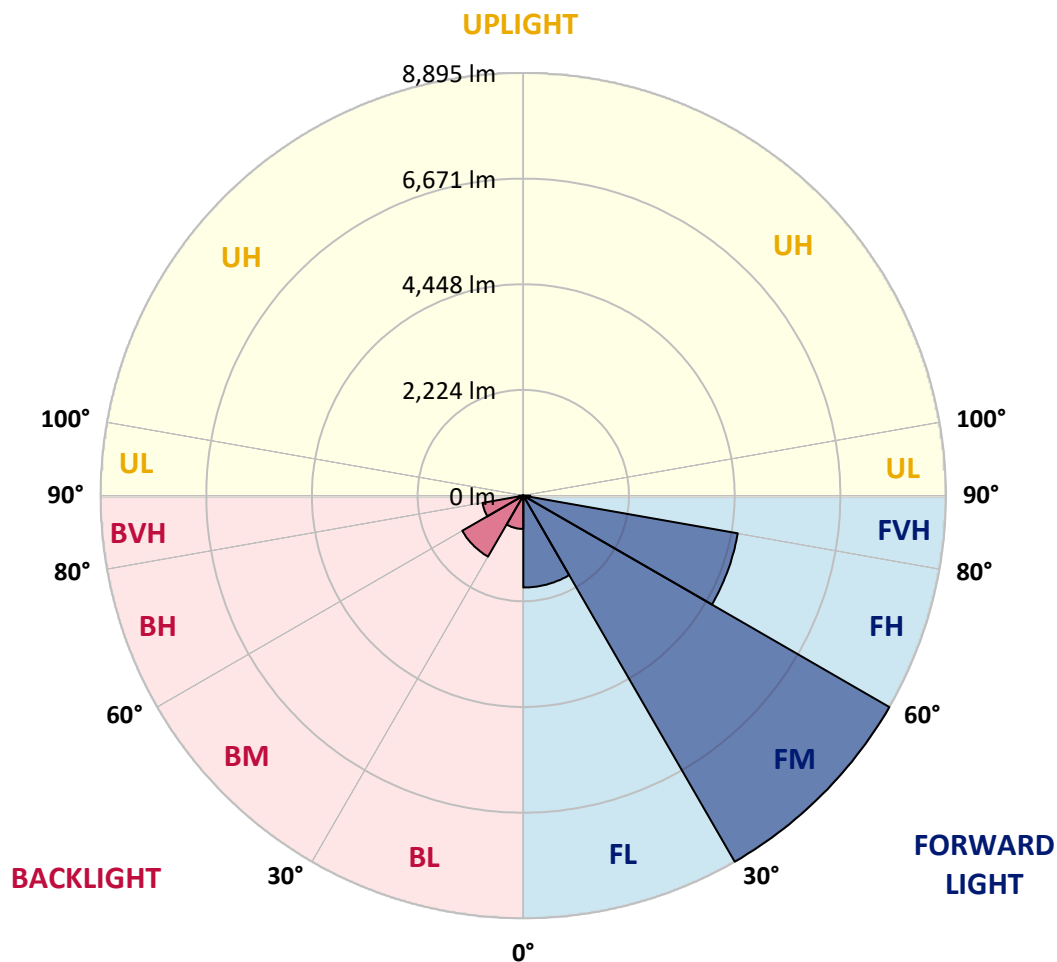
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1933.5	10.3			
FM	(30°-60°)	8895.1	47.6			
FH	(60°-80°)	4582.8	24.5			G2/5000
FVH	(80°-90°)	146.6	0.8			G2/225
BL	(0°-30°)	701.9	3.8	B2/1000		
BM	(30°-60°)	1482.4	7.9	B2/2500		
BH	(60°-80°)	871.8	4.7	B2/1000		G2/1000
BVH	(80°-90°)	88.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7
2.5°	2308.8	2293.5	2277.3	2232.7	2185.0	2131.2	2054.1	1980.1	1881.7	1878.7	1805.6
5°	2948.8	2938.7	2866.7	2825.1	2714.5	2567.4	2442.7	2248.9	2069.4	2048.1	1906.0
7.5°	3537.2	3497.6	3470.2	3395.2	3285.6	3096.9	2855.5	2593.8	2293.5	2265.1	2029.8
10°	3980.5	3976.4	3962.2	3897.3	3815.1	3627.5	3359.7	2984.3	2577.6	2521.8	2179.9
12.5°	4312.2	4315.2	4313.2	4312.2	4253.3	4094.1	3804.0	3408.4	2864.6	2825.1	2353.4
15°	4530.3	4560.7	4572.9	4623.6	4628.7	4522.2	4272.6	3818.2	3188.2	3129.4	2540.0
17.5°	4674.3	4689.5	4746.3	4832.6	4902.6	4883.3	4661.1	4197.6	3518.9	3420.5	2733.8
20°	4812.3	4838.6	4882.3	4999.9	5123.7	5180.5	5024.3	4586.1	3846.6	3783.7	2947.8
22.5°	5099.3	5136.9	5152.1	5211.9	5317.4	5417.9	5346.9	4958.3	4205.7	4120.5	3175.0
25°	5585.2	5624.8	5582.2	5568.0	5602.5	5652.2	5637.0	5309.3	4544.5	4422.7	3390.1
27.5°	6218.2	6223.3	6140.1	6061.0	5975.8	5950.4	5903.8	5620.7	4838.6	4737.2	3606.2
30°	6897.9	6873.5	6735.6	6592.5	6448.5	6306.5	6172.6	5921.0	5166.3	5049.6	3818.2
32.5°	7528.8	7515.6	7362.5	7140.3	6896.8	6762.9	6492.1	6224.3	5517.3	5404.7	4036.3
35°	8001.5	8020.8	7852.4	7610.0	7344.2	7225.5	6883.7	6542.8	5880.4	5757.7	4273.6
37.5°	8337.3	8327.1	8178.0	7968.0	7734.7	7631.3	7341.1	6890.8	6271.0	6153.3	4533.3
40°	8457.0	8450.9	8340.3	8187.2	8039.0	8002.5	7819.9	7266.1	6718.3	6580.4	4845.7
42.5°	8380.9	8394.1	8321.1	8279.5	8252.1	8278.4	8295.7	7758.1	7206.2	7079.4	5184.6
45°	8147.6	8140.5	8130.3	8198.3	8352.5	8526.0	8766.4	8222.7	7736.8	7635.3	5639.0
47.5°	7730.7	7781.4	7806.8	7994.4	8331.2	8742.0	9308.1	8845.5	8506.7	8418.4	6331.8
50°	7147.4	7188.0	7338.1	7671.8	8174.0	8823.2	9837.6	9863.9	9790.9	9625.6	7084.5
52.5°	6236.5	6299.4	6608.8	7220.4	7851.4	8789.7	10158.1	10737.3	10833.7	10709.9	7826.0
55°	5217.0	5305.3	5631.9	6434.3	7407.1	8607.1	10379.3	11243.5	11628.0	11513.3	8540.2
57.5°	4218.9	4312.2	4647.9	5425.0	6632.1	8203.4	10524.3	11807.5	12709.3	12560.2	9428.8
60°	3161.9	3259.2	3547.3	4347.7	5528.4	7414.2	10425.9	12296.4	13789.6	13725.7	10318.4
62.5°	2039.9	2147.5	2398.0	3060.4	4249.3	6335.9	9899.4	12566.3	14724.9	14647.8	10967.6
65°	1242.6	1254.8	1392.8	1900.0	2908.3	4905.6	8695.4	12208.2	15217.9	15194.6	11165.4
67.5°	803.4	822.7	885.6	1138.1	1743.7	3407.3	6952.6	11026.4	14929.8	14921.7	10756.6
70°	678.6	684.7	713.1	767.9	1013.4	2066.3	4882.3	9142.7	13835.3	13835.3	9773.7
72.5°	606.6	614.7	624.9	642.1	723.3	1170.6	2913.3	7117.0	11945.5	12024.6	8319.0
75°	550.8	548.8	554.9	557.9	616.7	764.9	1506.4	5263.7	9241.1	9082.9	6024.5
77.5°	471.7	474.7	471.7	484.9	544.7	582.3	764.9	3532.1	5600.5	5395.5	3023.9
80°	387.5	392.6	397.6	405.8	465.6	442.3	459.5	1609.8	2071.4	2027.8	934.3
82.5°	291.1	298.2	306.3	325.6	366.2	292.1	290.1	687.8	747.6	684.7	343.9
85°	117.7	139.0	210.0	229.3	230.3	160.3	178.5	287.1	305.3	298.2	134.9
87.5°	27.4	32.5	68.0	102.5	94.3	59.8	65.9	93.3	106.5	98.4	45.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7	1737.7
2.5°	1772.1	1736.6	1675.8	1629.1	1595.6	1566.2	1548.0	1536.8	1532.7	1531.7	1532.7
5°	1832.0	1769.1	1672.7	1611.9	1578.4	1559.1	1548.0	1546.9	1548.0	1549.0	1545.9
7.5°	1914.2	1823.9	1698.1	1641.3	1615.9	1601.7	1596.7	1594.6	1595.6	1594.6	1594.6
10°	2023.7	1900.0	1747.8	1689.0	1667.7	1651.4	1643.3	1638.2	1634.2	1630.1	1628.1
12.5°	2144.4	1984.1	1801.6	1744.8	1714.3	1689.0	1670.7	1657.5	1648.4	1639.3	1637.2
15°	2279.3	2073.4	1861.4	1782.3	1738.7	1701.1	1669.7	1648.4	1632.2	1619.0	1618.0
17.5°	2408.2	2157.6	1902.0	1799.5	1735.6	1682.9	1641.3	1611.9	1591.6	1574.3	1572.3
20°	2546.1	2237.7	1920.2	1788.4	1705.2	1641.3	1586.5	1551.0	1527.7	1508.4	1505.4
22.5°	2685.1	2305.7	1918.2	1752.9	1652.4	1577.4	1519.6	1482.0	1454.6	1435.4	1428.3
25°	2818.0	2360.5	1892.9	1696.1	1579.4	1501.3	1442.5	1408.0	1383.6	1360.3	1360.3
27.5°	2937.7	2392.9	1845.2	1627.1	1504.3	1422.2	1375.5	1344.1	1321.8	1306.5	1297.4
30°	3055.3	2408.2	1780.3	1539.8	1425.2	1355.2	1317.7	1299.4	1279.1	1261.9	1259.9
32.5°	3160.8	2405.1	1699.1	1454.6	1350.2	1300.4	1285.2	1271.0	1249.7	1225.4	1219.3
35°	3263.3	2384.8	1602.7	1361.3	1287.3	1268.0	1272.0	1251.8	1213.2	1182.8	1177.7
37.5°	3374.9	2348.3	1497.2	1285.2	1234.5	1252.8	1262.9	1218.3	1155.4	1107.7	1096.6
40°	3503.7	2306.7	1387.7	1209.2	1192.9	1238.6	1238.6	1156.4	1070.2	1040.8	1032.7
42.5°	3654.9	2272.2	1296.4	1145.2	1158.4	1204.1	1199.0	1074.2	1038.7	1023.5	1019.5
45°	3894.2	2260.1	1202.1	1089.5	1130.0	1163.5	1121.9	1045.8	1025.5	1013.4	1009.3
47.5°	4272.6	2274.3	1118.9	1047.9	1097.6	1122.9	1035.7	1026.6	1012.4	995.1	993.1
50°	4623.6	2261.1	1060.0	1024.5	1069.2	1074.2	1000.2	1003.2	995.1	975.8	971.8
52.5°	4910.7	2219.5	1022.5	1012.4	1044.8	989.0	966.7	977.9	974.8	950.5	946.4
55°	5226.1	2194.1	1004.2	1012.4	1028.6	915.0	935.3	951.5	947.4	930.2	929.2
57.5°	5608.6	2199.2	991.1	1015.4	1012.4	877.4	903.8	923.1	922.1	917.0	917.0
60°	6000.1	2201.2	970.8	1014.4	993.1	848.0	871.4	898.8	900.8	903.8	903.8
62.5°	6130.0	2113.0	931.2	996.1	950.5	819.6	840.9	878.5	876.4	884.5	885.6
65°	5887.5	1868.5	872.4	954.5	895.7	799.3	817.6	852.1	840.9	862.2	866.3
67.5°	5359.0	1545.9	781.1	879.5	834.8	778.0	802.4	815.6	795.3	836.9	837.9
70°	4631.7	1207.1	665.4	773.0	765.9	755.7	790.2	769.9	741.5	792.2	782.1
72.5°	3872.9	922.1	531.5	632.0	673.6	722.2	768.9	711.1	671.5	686.7	668.5
75°	2909.3	681.7	427.1	495.0	561.0	674.6	749.6	640.1	579.2	565.0	561.0
77.5°	1483.0	445.3	319.5	370.3	421.0	609.6	723.3	556.9	479.8	457.5	447.3
80°	529.5	276.9	225.2	255.6	284.0	524.4	632.0	460.5	372.3	368.2	372.3
82.5°	245.5	178.5	151.1	167.4	168.4	350.0	481.8	343.9	283.0	430.1	363.2
85°	105.5	89.3	85.2	83.2	77.1	156.2	270.8	184.6	288.1	128.8	118.7
87.5°	31.4	35.5	31.4	23.3	17.2	17.2	27.4	10.1	7.1	5.1	5.1
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)