

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: STREETWORKS

Report Number: P321110

Luminaire Tested: **GAN-SA6A-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22722 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

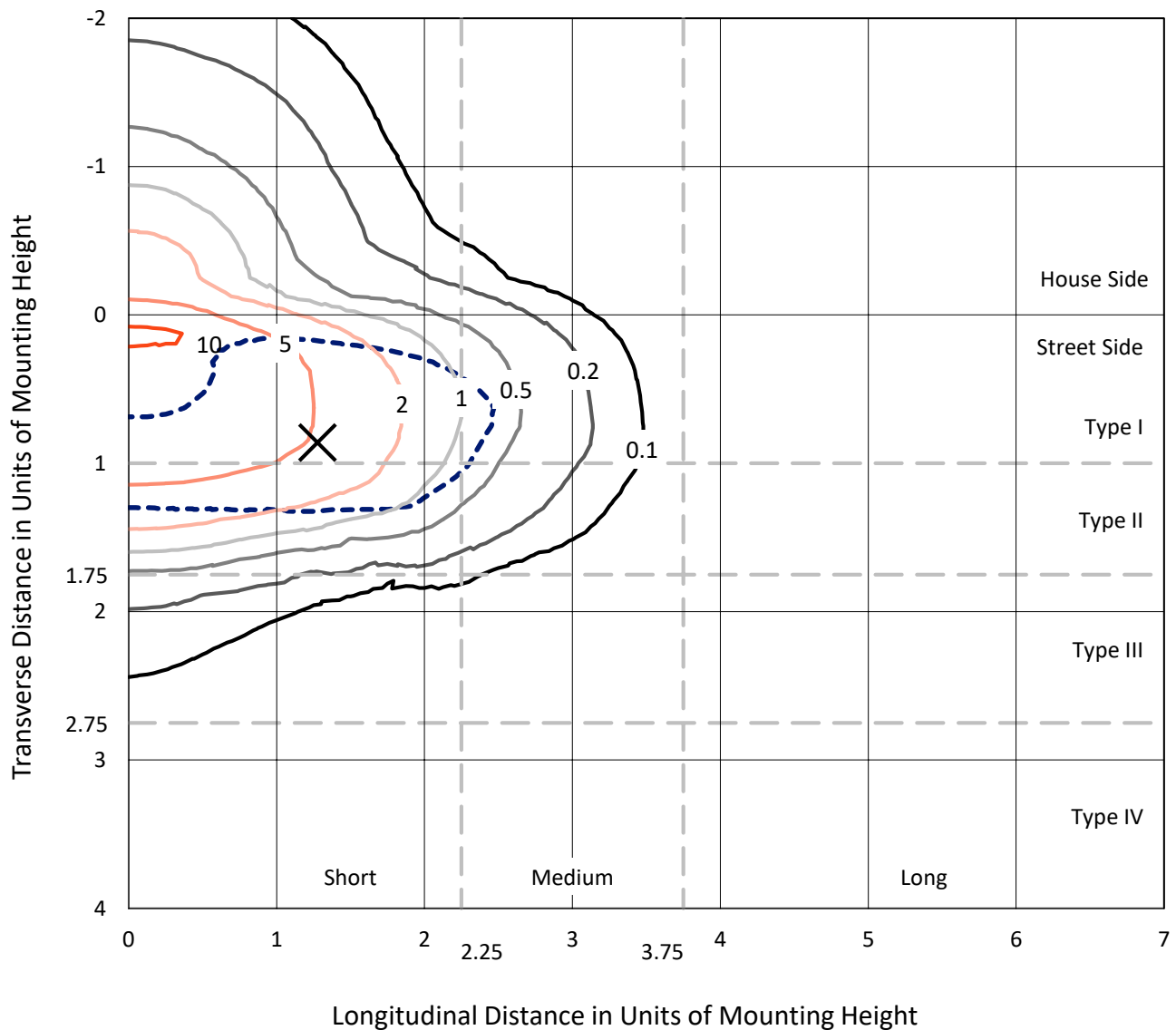
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

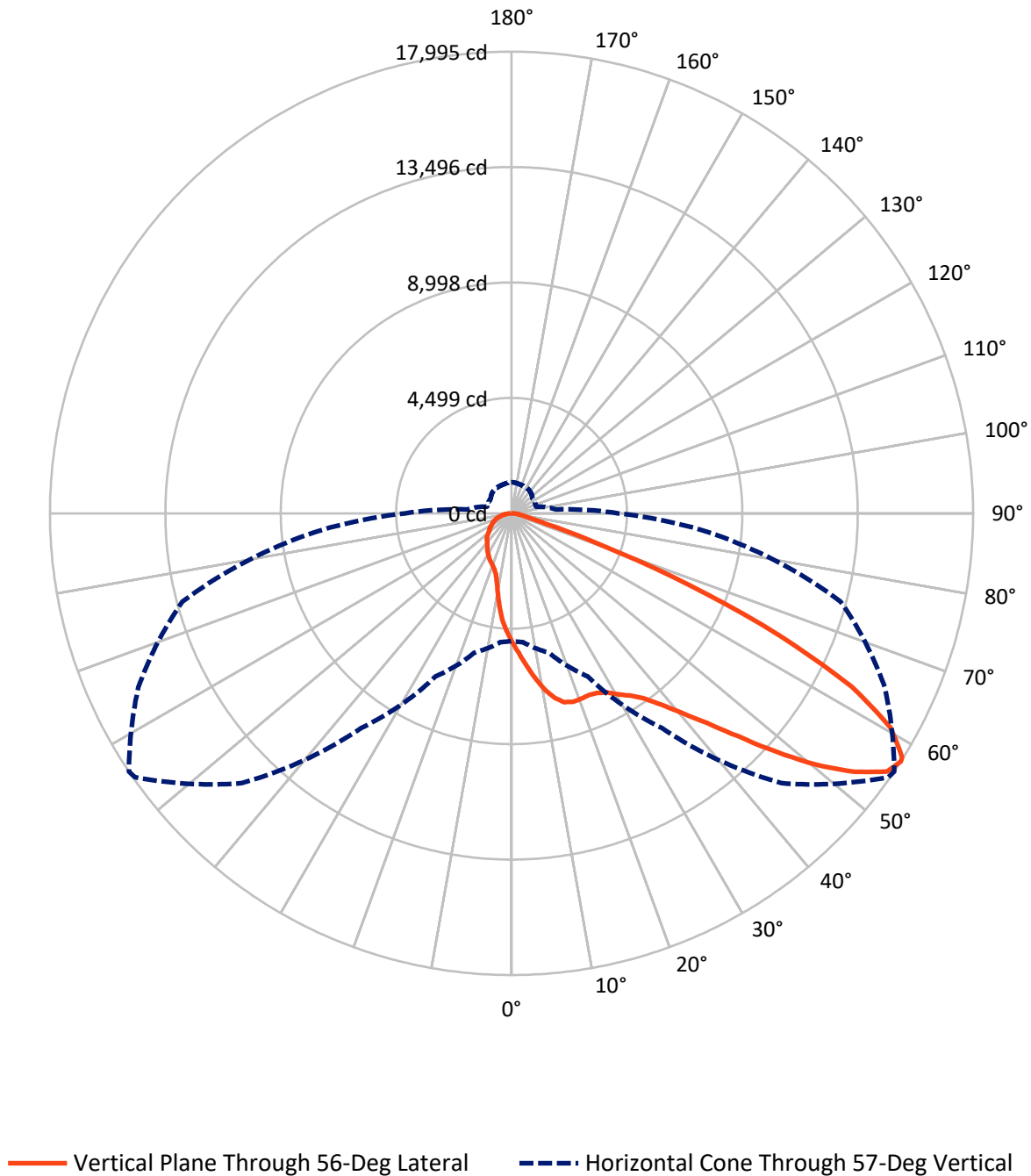
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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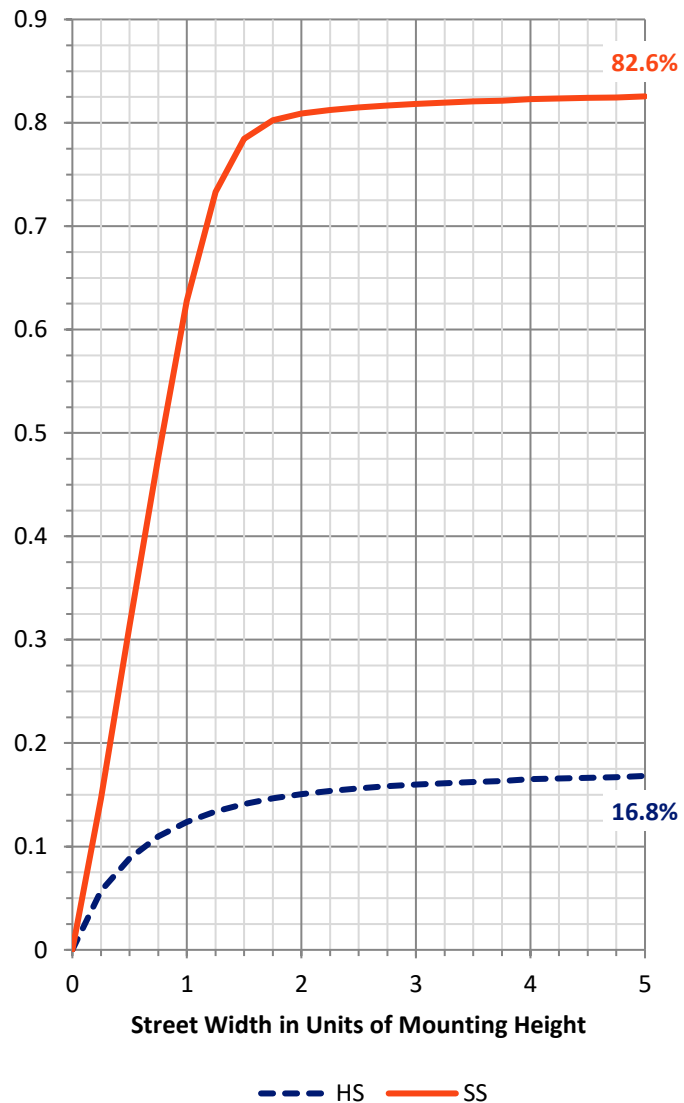
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3916.8	0.0	3916.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	18805.2	0.0	18805.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	22722.0	0.0	22722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.4	2.1
10°-20°	1361.1	6.0
20°-30°	2217.0	9.8
30°-40°	3314.1	14.6
40°-50°	5026.8	22.1
50°-60°	5634.2	24.8
60°-70°	3327.8	14.6
70°-80°	1090.3	4.8
80°-90°	269.4	1.2
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°	22722.0	100.0
0°-180°	22722.0	100.0

Coefficient of Utilization



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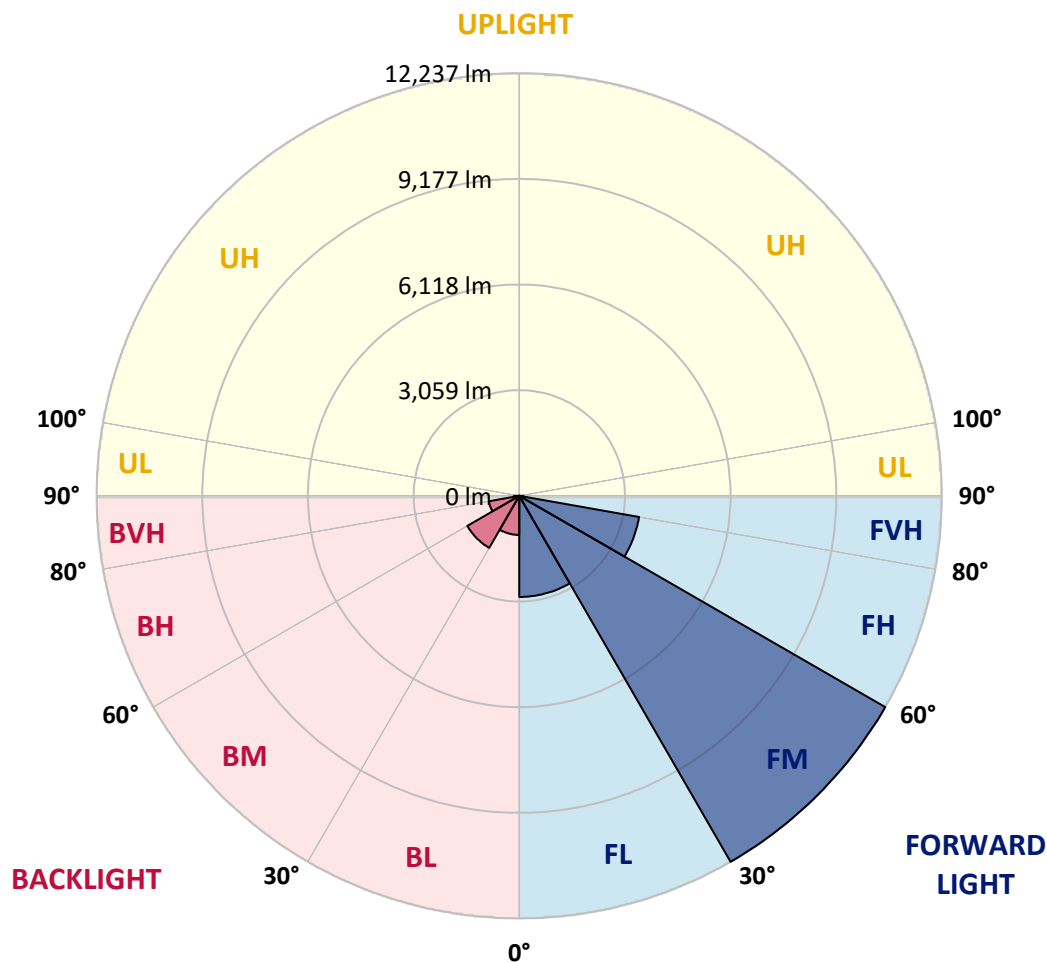
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2926.9	12.9			
FM	(30°-60°)	12236.5	53.9			
FH	(60°-80°)	3523.1	15.5			G2/5000
FVH	(80°-90°)	118.6	0.5			G2/225
BL	(0°-30°)	1132.6	5.0	B3/2500		
BM	(30°-60°)	1738.5	7.7	B2/2500		
BH	(60°-80°)	894.9	3.9	B2/1000		G2/1000
BVH	(80°-90°)	150.8	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5039.8	5039.8	5039.8	5039.8	5039.8	5039.8	5039.8	5039.8	5039.8	5039.8	5039.8
2.5°	5787.1	5840.2	5816.7	5735.5	5673.0	5584.8	5486.4	5456.7	5352.9	5236.5	5096.8
5°	6703.0	6676.5	6638.2	6511.7	6378.2	6222.8	5976.0	5937.0	5705.8	5442.7	5164.7
7.5°	7224.6	7222.3	7199.7	7125.5	7003.7	6800.6	6503.1	6457.0	6108.0	5684.8	5253.7
10°	7148.9	7143.4	7180.9	7258.2	7294.9	7252.8	7002.1	6956.0	6527.3	5952.6	5356.8
12.5°	6718.6	6721.8	6781.9	6944.3	7165.3	7430.8	7390.2	7367.5	6962.3	6255.6	5481.7
15°	6383.6	6390.7	6438.3	6579.6	6840.5	7322.3	7626.0	7633.8	7383.2	6589.8	5627.8
17.5°	6236.8	6251.7	6273.5	6372.7	6611.7	7106.0	7682.2	7724.4	7751.7	6936.5	5768.3
20°	6283.7	6297.7	6304.0	6367.2	6563.2	6974.8	7643.2	7718.9	8034.4	7262.9	5908.9
22.5°	6493.7	6502.3	6506.2	6522.6	6674.9	7012.2	7617.4	7697.1	8239.0	7555.7	6015.1
25°	6842.0	6835.8	6810.8	6789.7	6892.0	7160.6	7676.8	7752.5	8405.3	7821.2	6084.6
27.5°	7259.0	7251.2	7202.8	7145.0	7203.6	7391.8	7847.8	7907.9	8554.5	8069.6	6119.7
30°	7759.5	7739.2	7647.9	7579.2	7601.8	7738.5	8129.7	8184.3	8784.8	8351.4	6154.1
32.5°	8338.2	8316.3	8184.3	8070.3	8070.3	8184.3	8420.2	8465.5	8980.1	8670.0	6209.5
35°	9062.8	9035.5	8863.7	8672.4	8618.5	8676.3	8816.1	8848.1	9331.4	9071.4	6310.2
37.5°	9917.1	9880.4	9657.8	9401.7	9283.8	9280.7	9381.4	9447.0	9892.9	9598.5	6481.3
40°	10773.7	10747.9	10553.5	10352.0	10120.9	10046.7	10202.1	10222.4	10626.9	10252.9	6699.9
42.5°	11435.9	11431.2	11395.3	11421.8	11185.2	11035.3	11157.1	11173.5	11523.4	10961.1	6932.6
45°	11785.7	11793.5	11967.7	12353.4	12440.9	12331.6	12391.7	12396.4	12547.9	11675.6	7145.8
47.5°	11505.4	11546.0	11986.4	12849.3	13565.3	13928.4	13828.5	13886.3	13541.1	12289.4	7312.9
50°	10413.0	10462.9	11212.6	12628.3	14090.1	15473.8	15421.5	15408.2	14342.3	12739.2	7403.5
52.5°	9059.7	9098.7	9717.2	11479.6	13705.1	16328.1	16808.3	16739.6	15054.5	13075.7	7420.6
55°	6999.0	7059.9	7652.6	9187.0	12148.1	16001.7	17828.1	17766.4	15703.4	13252.2	7400.3
57°	4975.7	5039.8	5628.5	7011.5	10219.3	14871.7	17929.6	17995.2	16054.0	13281.9	7423.0
57.5°	4440.0	4505.6	5089.0	6432.1	9618.0	14463.3	17842.2	17951.5	16117.2	13277.2	7435.5
60°	2235.6	2260.6	2632.3	3590.5	6079.9	11692.8	16701.3	16983.2	16174.2	13047.6	7489.4
62.5°	1390.0	1372.0	1360.3	1653.9	2958.0	7754.1	14347.0	14889.7	15083.4	12491.6	7359.0
65°	1222.1	1188.5	1059.6	1036.2	1306.4	3766.2	10804.2	11479.6	12752.5	11615.5	7048.2
67.5°	1147.9	1115.1	969.8	882.4	883.2	1493.0	6707.7	7468.3	9934.3	10134.2	6314.9
70°	1071.4	1041.7	905.8	802.7	752.0	826.9	3086.0	3663.1	6475.8	7965.7	5277.9
72.5°	973.0	952.7	823.8	717.6	663.7	619.2	1181.5	1395.4	3749.0	5349.8	3665.4
75°	869.9	851.2	741.0	639.5	573.9	487.3	665.3	716.8	1904.6	2737.0	1804.6
77.5°	756.7	745.7	659.1	565.4	513.0	403.7	470.9	495.9	816.8	1173.7	905.0
80°	602.1	623.1	576.3	503.7	455.2	323.3	333.4	349.8	475.6	573.2	513.8
82.5°	392.0	428.7	451.3	409.2	374.8	254.6	239.7	246.8	310.0	349.8	223.3
85°	163.2	183.5	296.7	267.8	249.1	185.8	160.9	164.0	192.1	199.1	91.4
87.5°	72.6	77.3	130.4	122.6	105.4	64.0	68.7	75.0	102.3	96.8	35.1
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°	5039.8	5039.8	5039.8	5039.8	5039.8	5039.8	5039.8	5039.8	5039.8	5039.8	5039.8
2.5°	5044.4	4978.9	4866.4	4742.2	4640.7	4559.5	4477.5	4421.3	4355.7	4320.6	4302.6
5°	5048.3	4919.5	4682.9	4440.0	4223.0	4024.6	3835.7	3690.4	3554.5	3481.1	3460.8
7.5°	5064.7	4871.1	4488.5	4088.7	3702.9	3350.7	3079.0	2908.8	2786.2	2731.5	2715.9
10°	5078.0	4814.1	4248.0	3656.1	3131.3	2774.4	2563.6	2468.3	2426.2	2419.1	2412.1
12.5°	5109.3	4755.5	3995.0	3204.7	2687.0	2440.2	2366.8	2360.6	2372.3	2389.5	2389.5
15°	5158.5	4697.7	3706.0	2817.4	2404.3	2317.6	2332.5	2366.8	2398.8	2425.4	2429.3
17.5°	5194.4	4626.7	3395.2	2507.4	2253.6	2277.0	2330.1	2378.5	2411.3	2437.1	2439.5
20°	5220.1	4516.6	3063.4	2270.8	2166.9	2239.5	2305.9	2348.9	2371.5	2397.3	2401.2
22.5°	5206.9	4369.0	2769.0	2101.3	2096.6	2184.9	2248.1	2299.7	2282.5	2257.5	2273.9
25°	5142.8	4166.0	2466.0	1974.8	2022.5	2111.5	2189.6	2155.2	2097.4	2086.5	2092.7
27.5°	5028.8	3906.7	2185.7	1857.7	1936.6	2043.5	2038.9	2004.5	1984.2	1970.1	1978.7
30°	4906.2	3625.6	1940.5	1755.4	1841.3	1929.5	1911.6	1910.8	1890.5	1867.9	1878.8
32.5°	4785.2	3342.9	1746.0	1671.1	1769.5	1781.2	1820.2	1831.9	1792.1	1744.5	1741.3
35°	4679.8	3075.9	1598.4	1594.5	1682.8	1684.3	1741.3	1725.0	1625.8	1576.6	1576.6
37.5°	4600.9	2809.6	1486.0	1525.8	1568.8	1609.4	1638.3	1570.3	1553.9	1526.6	1525.8
40°	4566.6	2575.3	1415.7	1473.5	1488.3	1539.9	1465.7	1492.3	1500.1	1486.0	1486.0
42.5°	4530.6	2371.5	1354.8	1433.7	1431.3	1424.3	1386.8	1421.2	1452.4	1453.2	1450.9
45°	4494.7	2195.8	1300.9	1348.6	1381.4	1305.6	1312.6	1349.4	1393.1	1408.7	1408.7
47.5°	4454.9	2056.8	1251.7	1258.8	1309.5	1258.8	1253.3	1281.4	1333.0	1357.9	1363.4
50°	4367.4	1931.9	1195.5	1179.9	1194.0	1211.1	1215.8	1229.1	1286.1	1325.9	1335.3
52.5°	4246.4	1820.2	1123.7	1107.3	1107.3	1172.1	1194.0	1197.9	1246.3	1293.9	1303.3
55°	4145.7	1749.2	1049.5	1046.4	1043.2	1130.7	1168.2	1174.4	1208.0	1245.5	1250.2
57°	4152.7	1743.7	992.5	995.6	994.8	1088.5	1144.0	1157.3	1174.4	1206.5	1211.9
57.5°	4156.6	1747.6	980.0	981.6	980.8	1076.8	1137.0	1151.8	1165.1	1198.6	1204.1
60°	4215.2	1757.7	929.2	912.1	916.0	1014.4	1097.1	1115.9	1124.5	1169.0	1176.0
62.5°	4128.5	1712.5	888.6	847.2	847.2	948.8	1041.7	1071.4	1084.6	1144.8	1156.5
65°	3877.0	1585.2	841.0	773.8	781.7	883.2	975.3	1023.7	1044.0	1119.0	1131.5
67.5°	3488.9	1437.6	790.2	708.3	716.1	814.5	906.6	958.9	990.9	1090.9	1101.0
70°	2983.7	1257.2	721.5	638.8	648.1	739.5	825.4	884.7	932.4	1064.3	1067.5
72.5°	2199.7	1030.8	625.5	562.2	572.4	652.0	743.4	812.1	876.1	998.0	996.4
75°	1308.0	805.9	519.3	484.9	492.0	566.1	669.2	752.8	848.8	972.2	987.0
77.5°	793.4	606.7	423.2	406.1	414.6	490.4	616.1	705.1	837.1	916.7	912.1
80°	479.5	433.4	338.1	327.2	335.8	419.3	570.0	669.2	731.7	783.2	783.2
82.5°	250.7	264.7	248.3	239.7	251.4	340.5	518.5	584.1	646.6	555.2	518.5
85°	102.3	138.2	150.7	149.9	157.0	235.8	447.4	499.8	417.0	395.9	405.3
87.5°	34.4	58.6	73.4	63.3	66.4	148.4	310.0	241.3	286.6	199.9	189.8
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)