

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: P318199

Luminaire Tested: **GAN-SA5B-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20605 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 210
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

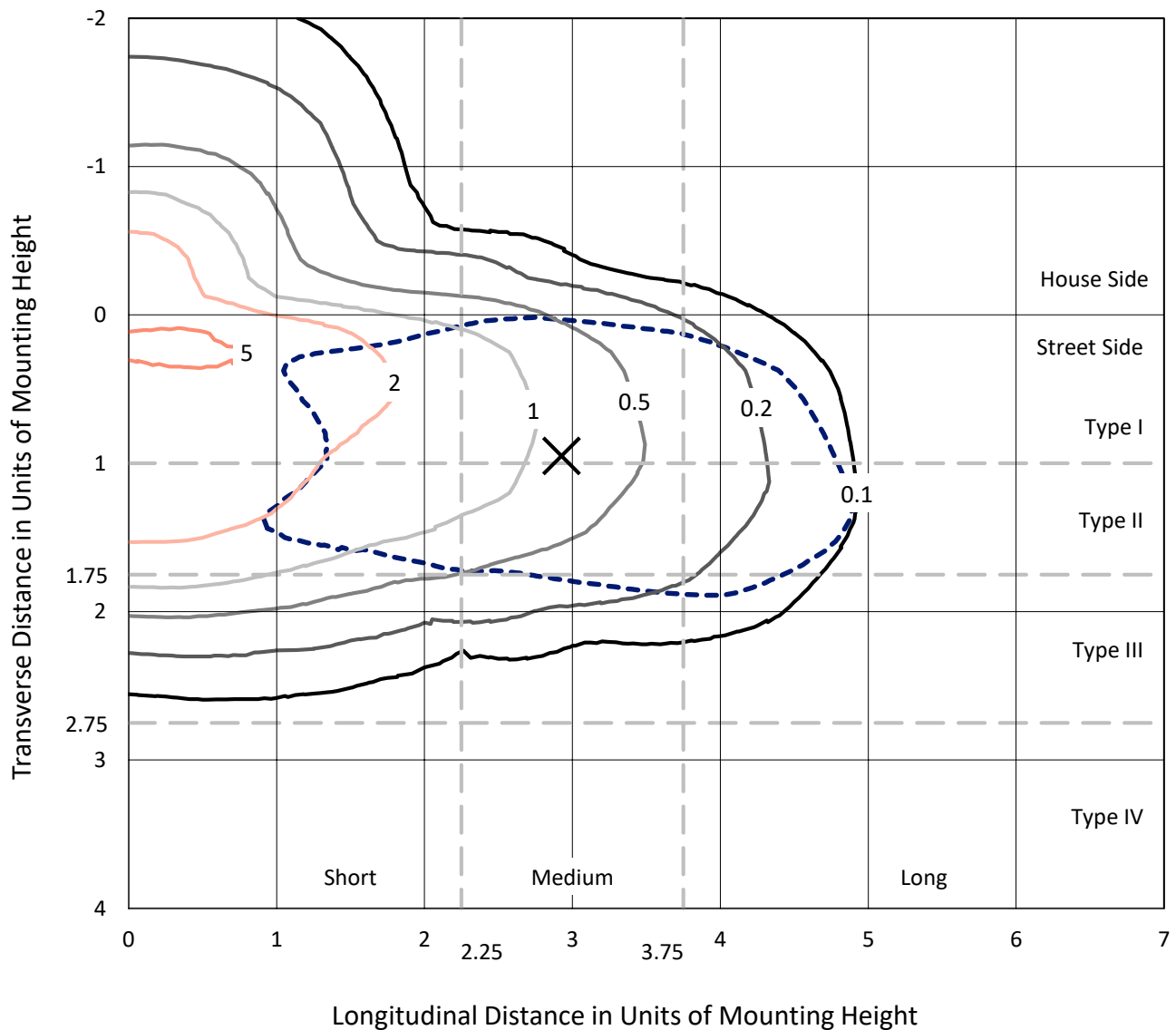


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Iso-Footcandle Lines of Horizontal Illumination

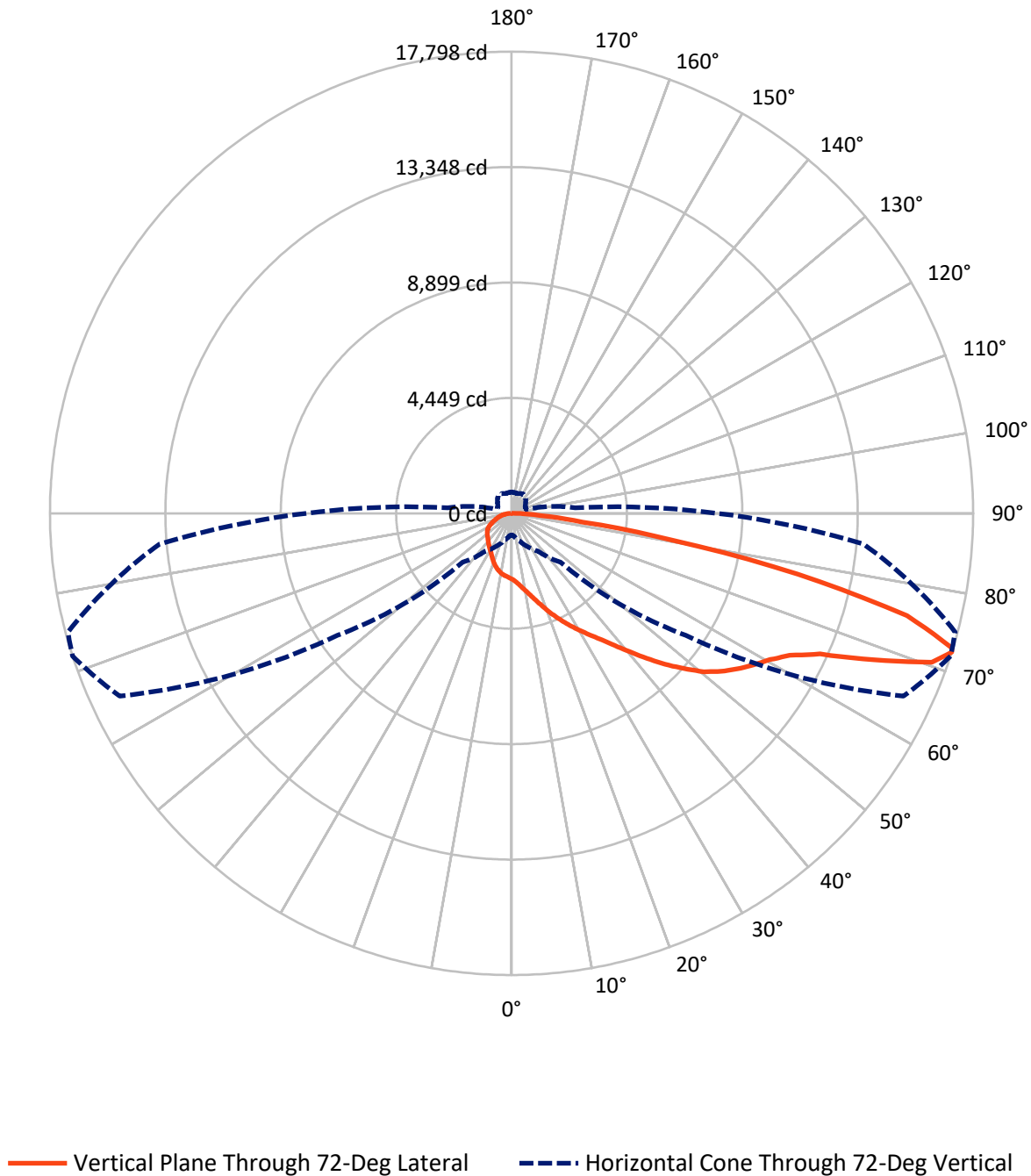
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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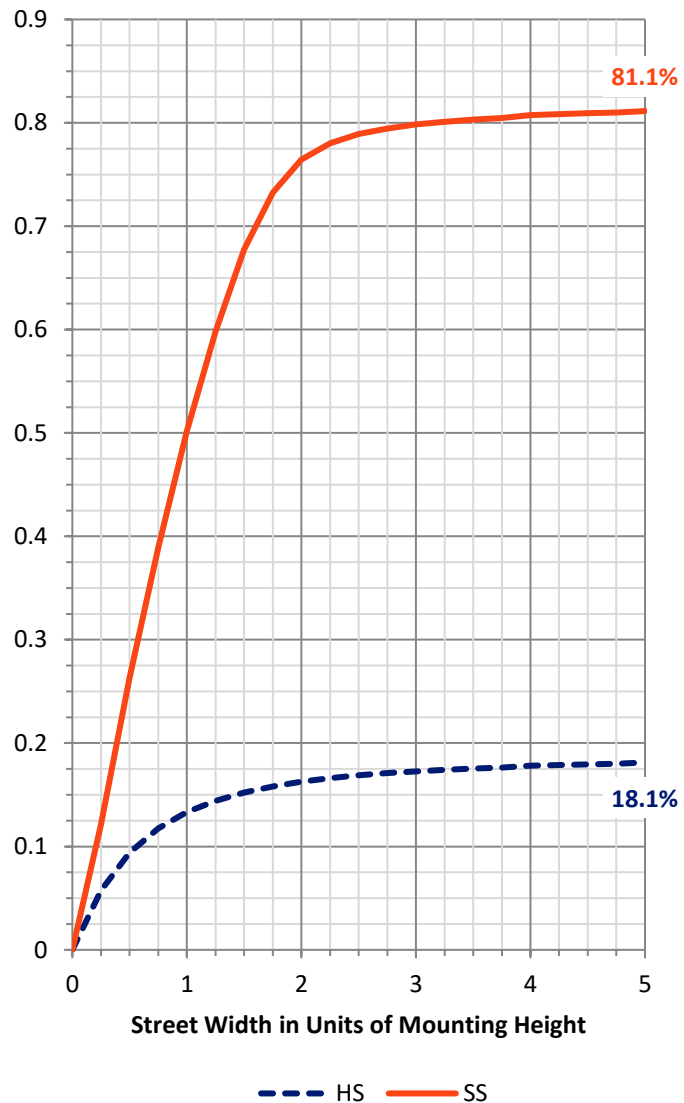
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3822.4	0.0	3822.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16782.6	0.0	16782.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	20605.0	0.0	20605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	1.2
10°-20°	820.8	4.0
20°-30°	1438.4	7.0
30°-40°	2132.6	10.4
40°-50°	3119.2	15.1
50°-60°	4291.9	20.8
60°-70°	4778.2	23.2
70°-80°	3237.7	15.7
80°-90°	532.1	2.6
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°	20605.0	100.0
0°-180°	20605.0	100.0

Coefficient of Utilization



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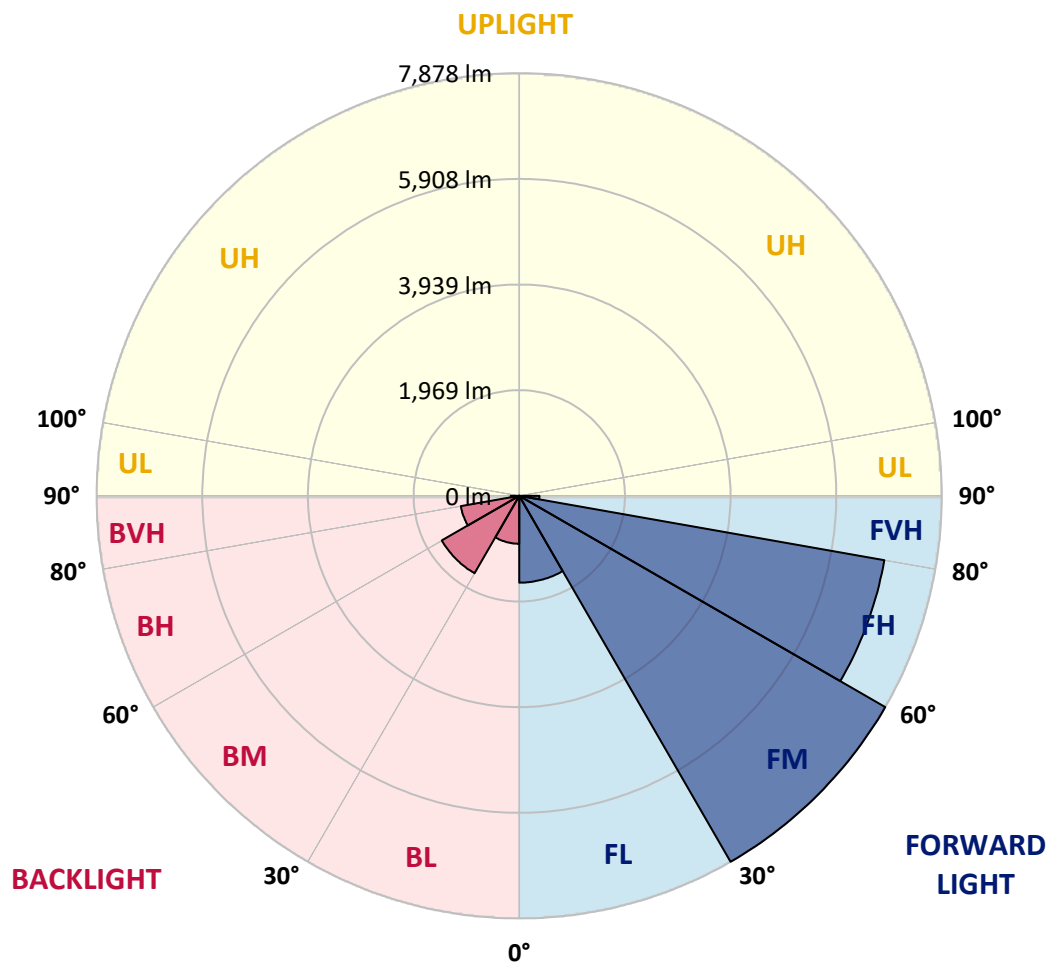
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1619.7	7.9			
FM	(30°-60°)	7877.5	38.2			
FH	(60°-80°)	6910.0	33.5			G3/7500
FVH	(80°-90°)	375.4	1.8			G3/500
BL	(0°-30°)	893.5	4.3	B2/1000		
BM	(30°-60°)	1666.2	8.1	B2/2500		
BH	(60°-80°)	1105.9	5.4	B3/2500		G3/2500
BVH	(80°-90°)	156.8	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2535.0	2535.0	2535.0	2535.0	2535.0	2535.0	2535.0	2535.0	2535.0	2535.0	2535.0
2.5°	2800.3	2796.0	2781.1	2781.1	2752.8	2728.6	2683.2	2652.7	2616.5	2603.8	2561.2
5°	3071.3	3072.7	3054.3	3041.5	2999.7	2948.6	2871.2	2801.0	2730.8	2702.4	2615.1
7.5°	3299.1	3296.2	3291.3	3280.6	3241.6	3189.1	3084.8	2980.5	2876.9	2834.4	2683.9
10°	3445.2	3451.6	3455.9	3460.8	3444.5	3406.9	3308.3	3181.3	3045.8	2987.6	2766.2
12.5°	3519.0	3530.3	3550.2	3584.3	3611.2	3607.0	3535.3	3400.5	3239.5	3166.4	2869.1
15°	3562.3	3577.2	3608.4	3669.4	3745.3	3788.6	3769.4	3647.4	3467.9	3377.8	2994.7
17.5°	3589.2	3601.3	3649.5	3731.1	3843.9	3958.9	4009.2	3907.1	3726.2	3623.3	3138.7
20°	3607.7	3616.9	3677.2	3773.0	3919.1	4102.2	4242.7	4217.1	4010.7	3877.3	3289.1
22.5°	3648.8	3656.6	3714.1	3810.6	3972.3	4208.6	4467.6	4505.9	4310.8	4159.6	3450.2
25°	3763.8	3763.8	3812.0	3879.4	4031.2	4300.8	4657.7	4827.3	4617.3	4441.3	3599.2
27.5°	3983.0	3980.9	3998.6	4022.0	4136.9	4394.5	4827.3	5111.1	4935.1	4742.8	3743.9
30°	4242.7	4256.8	4259.0	4247.6	4301.5	4511.5	4984.1	5410.5	5255.1	5047.9	3892.2
32.5°	4576.8	4586.0	4575.4	4537.8	4530.0	4677.6	5138.0	5724.0	5601.3	5366.5	4027.7
35°	5001.1	4983.3	4950.0	4873.4	4800.3	4899.6	5314.0	6037.6	5990.1	5751.7	4214.3
37.5°	5455.9	5456.6	5415.4	5241.6	5140.9	5183.4	5556.6	6393.1	6460.5	6210.0	4453.4
40°	5820.5	5839.7	5865.2	5636.8	5506.2	5565.1	5865.2	6805.3	7016.7	6753.5	4764.8
42.5°	6075.2	6097.2	6169.6	6026.3	5890.8	6000.0	6228.5	7245.2	7641.0	7380.7	5129.5
45°	6344.8	6356.9	6408.0	6346.2	6259.7	6505.9	6637.8	7700.6	8301.6	8049.0	5537.4
47.5°	6628.6	6641.4	6693.9	6652.7	6607.3	6978.4	7064.9	8129.9	8934.4	8783.3	5973.1
50°	6979.1	6987.6	7037.3	6962.8	6977.0	7334.5	7446.6	8523.6	9597.8	9443.1	6410.1
52.5°	7457.3	7459.4	7528.2	7460.8	7394.1	7595.6	7775.1	8894.7	10117.8	10044.7	6847.1
55°	7831.9	7854.6	8080.2	8066.0	8027.7	7832.6	8049.7	9248.0	10581.8	10616.6	7311.1
57.5°	7592.8	7681.5	8138.4	8460.5	8774.1	8422.2	8420.8	9646.0	11013.2	11177.8	7821.2
60°	6649.9	6770.5	7443.8	8158.2	9139.5	9448.1	9191.2	10132.0	11448.8	11734.0	8460.5
62.5°	4749.2	4947.9	5860.3	7001.1	8638.6	10127.7	10759.2	10903.2	12041.2	12378.2	9291.3
65°	2400.9	2551.3	3316.1	4690.3	6901.8	9683.6	12463.3	12591.8	13070.6	13370.0	10570.5
67.5°	1458.7	1515.4	1888.6	2608.7	4231.3	7543.1	13019.6	15406.2	15062.9	15221.8	12394.5
70°	1074.9	1116.7	1349.4	1732.5	2433.5	4426.4	11312.6	17414.8	17189.1	17171.4	13742.5
72°	837.2	867.7	1073.4	1399.8	1779.4	2655.6	8199.4	16673.4	17797.9	17708.5	13619.1
72.5°	793.9	820.9	1008.2	1317.5	1681.5	2407.2	7372.2	16173.2	17753.9	17713.5	13459.4
75°	625.0	644.2	746.4	1018.8	1316.1	1365.7	4039.7	12533.6	15749.6	16404.5	12105.8
77.5°	517.2	520.0	574.0	741.4	1025.9	965.6	1984.4	8696.0	11277.8	11997.9	8575.4
80°	421.4	425.0	450.5	520.0	776.2	714.4	942.2	5000.4	6314.3	6322.1	4078.1
82.5°	335.6	336.3	364.7	380.3	557.6	510.8	539.9	2347.7	2759.1	2654.1	1465.8
85°	236.3	231.3	356.2	312.2	364.7	327.8	298.0	929.4	1140.8	1091.2	459.0
87.5°	78.8	81.6	158.2	202.2	212.8	185.9	132.7	356.2	430.7	427.1	145.4
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°	2535.0	2535.0	2535.0	2535.0	2535.0	2535.0	2535.0	2535.0	2535.0	2535.0	2535.0
2.5°	2547.7	2525.0	2491.7	2454.8	2425.7	2395.9	2373.9	2362.6	2349.8	2339.1	2351.9
5°	2574.7	2532.1	2461.2	2391.6	2340.6	2295.2	2262.5	2245.5	2229.9	2219.2	2220.7
7.5°	2618.7	2549.9	2430.7	2329.2	2258.3	2209.3	2176.0	2164.6	2154.7	2151.8	2155.4
10°	2665.5	2564.0	2390.2	2255.4	2174.5	2134.1	2119.2	2127.0	2134.1	2140.5	2147.6
12.5°	2718.7	2576.8	2331.3	2168.9	2100.0	2084.4	2099.3	2133.4	2158.2	2173.1	2182.3
15°	2788.2	2588.2	2263.2	2082.3	2036.2	2053.9	2104.3	2163.2	2206.5	2234.1	2238.4
17.5°	2852.1	2587.5	2176.0	1995.0	1984.4	2036.2	2112.1	2195.1	2253.3	2292.3	2300.1
20°	2918.1	2568.3	2074.5	1909.9	1931.9	2017.0	2115.7	2215.7	2285.9	2331.3	2342.0
22.5°	2979.8	2535.0	1963.1	1832.6	1887.9	1991.5	2102.2	2203.6	2273.9	2310.8	2322.1
25°	3021.7	2476.8	1850.3	1767.3	1848.9	1960.3	2058.2	2139.8	2192.3	2210.7	2213.6
27.5°	3042.9	2400.9	1743.9	1710.5	1808.5	1909.2	1976.6	2017.0	2031.9	2030.5	2027.7
30°	3045.8	2300.8	1652.4	1664.4	1761.6	1834.0	1865.9	1858.1	1839.0	1806.3	1809.2
32.5°	3036.6	2188.0	1575.7	1620.4	1702.0	1742.5	1743.9	1706.3	1655.2	1603.4	1589.2
35°	3039.4	2077.3	1508.3	1570.8	1629.7	1647.4	1631.1	1575.7	1506.2	1439.5	1425.3
37.5°	3070.6	1980.9	1450.2	1513.3	1549.5	1553.7	1530.3	1472.2	1421.1	1355.8	1350.1
40°	3145.1	1912.0	1394.8	1448.7	1469.3	1471.5	1438.1	1397.0	1401.2	1366.4	1365.7
42.5°	3279.2	1882.2	1345.9	1381.3	1394.1	1398.4	1372.8	1346.6	1383.5	1360.8	1353.0
45°	3452.3	1889.3	1304.7	1315.4	1338.8	1358.6	1343.0	1311.1	1325.3	1226.7	1194.0
47.5°	3652.4	1934.7	1272.1	1258.6	1299.0	1336.7	1312.5	1264.3	1213.9	1116.0	1097.6
50°	3886.5	2005.0	1242.3	1202.6	1255.8	1306.9	1282.7	1213.9	1138.0	1090.5	1084.1
52.5°	4130.6	2090.8	1212.5	1140.8	1201.1	1284.1	1272.1	1202.6	1108.9	1062.1	1053.6
55°	4407.3	2177.4	1174.9	1069.2	1142.3	1273.5	1267.1	1161.4	1086.9	1060.7	1054.3
57.5°	4751.4	2276.0	1125.2	994.7	1086.9	1235.2	1215.3	1136.6	1064.2	1044.3	1042.2
60°	5199.7	2421.4	1053.6	915.2	1019.5	1176.3	1172.1	1100.4	1028.0	1013.8	1011.0
62.5°	5872.3	2661.9	955.0	835.8	944.3	1076.3	1115.3	1051.4	989.7	989.0	990.4
65°	6915.2	3023.8	847.8	766.2	868.4	991.8	1049.3	1001.1	950.7	964.9	967.0
67.5°	8124.2	3323.9	742.8	698.1	791.1	911.7	989.7	950.7	898.9	935.8	936.5
70°	8526.5	3055.7	650.6	630.7	710.9	834.3	925.2	895.4	842.9	879.7	876.2
72°	7934.8	2466.8	591.0	579.6	650.6	770.5	867.7	843.6	791.8	816.6	807.4
72.5°	7748.2	2351.9	576.1	566.9	634.3	754.2	852.8	830.8	779.0	800.3	791.8
75°	6911.7	2042.6	495.2	497.3	553.4	674.7	769.1	762.0	708.8	710.9	708.1
77.5°	5013.1	1497.7	417.2	431.4	471.1	593.1	684.6	680.4	622.2	611.6	609.4
80°	2326.4	764.1	339.8	346.2	387.4	495.9	583.9	578.2	531.4	517.9	510.1
82.5°	796.7	363.3	255.4	259.7	300.1	399.4	506.6	503.0	464.0	437.7	421.4
85°	284.5	180.9	178.8	174.5	214.3	314.3	441.3	422.1	364.7	310.7	309.3
87.5°	92.2	77.3	92.2	91.5	124.9	212.8	320.7	273.1	264.6	219.9	215.7
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)