

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: P317368

Luminaire Tested: **GAN-SA4C-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24858 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

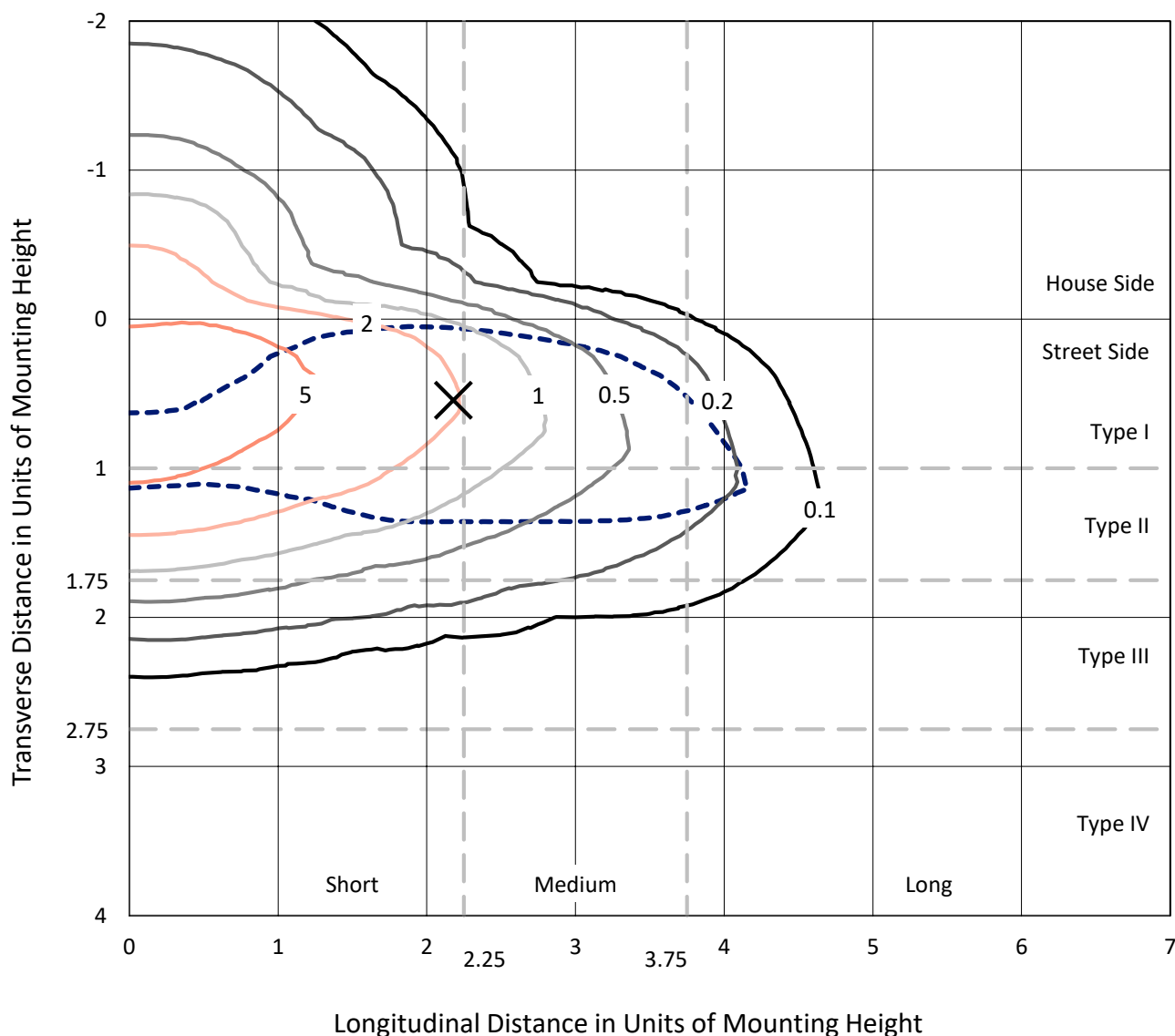
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

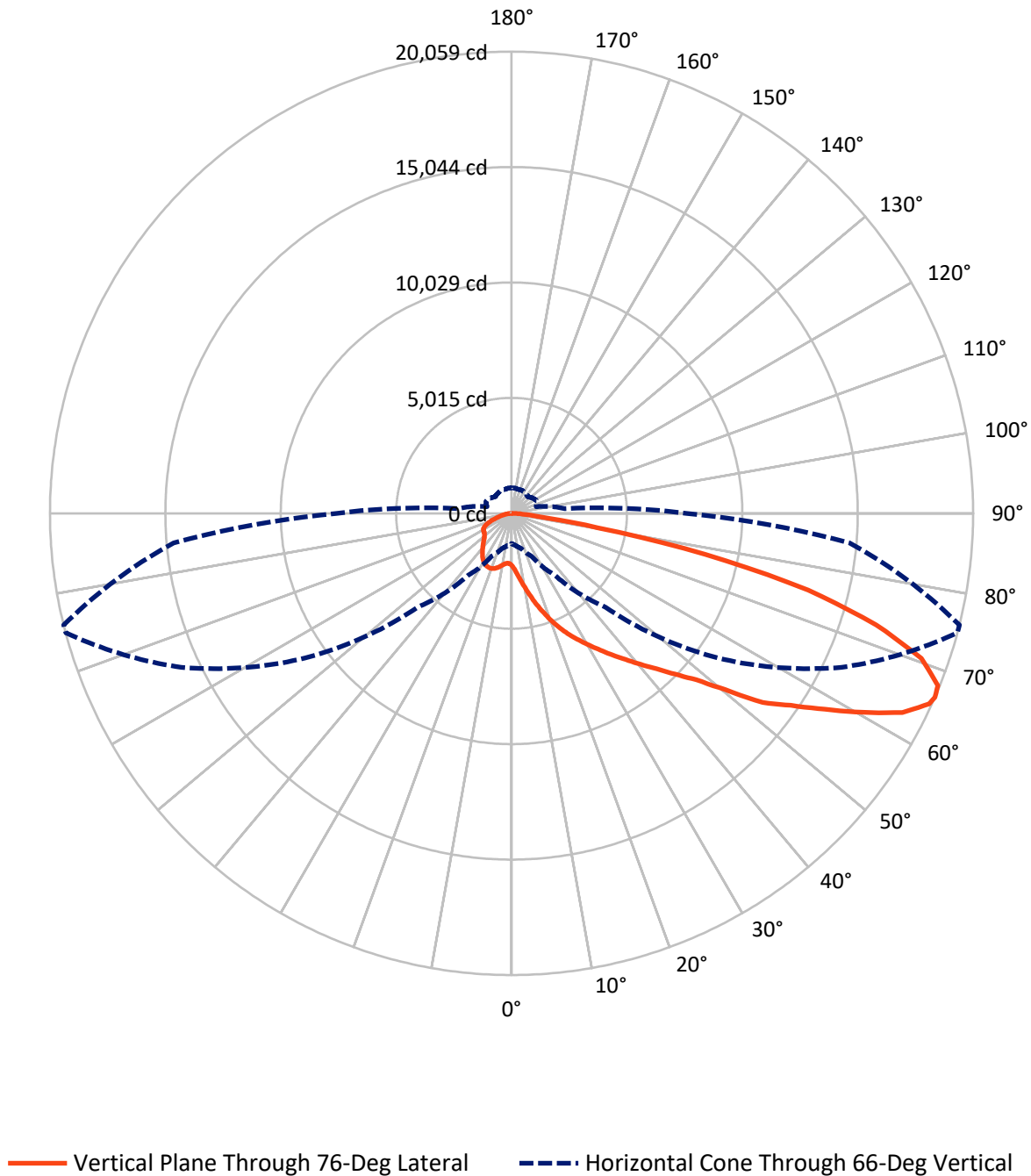
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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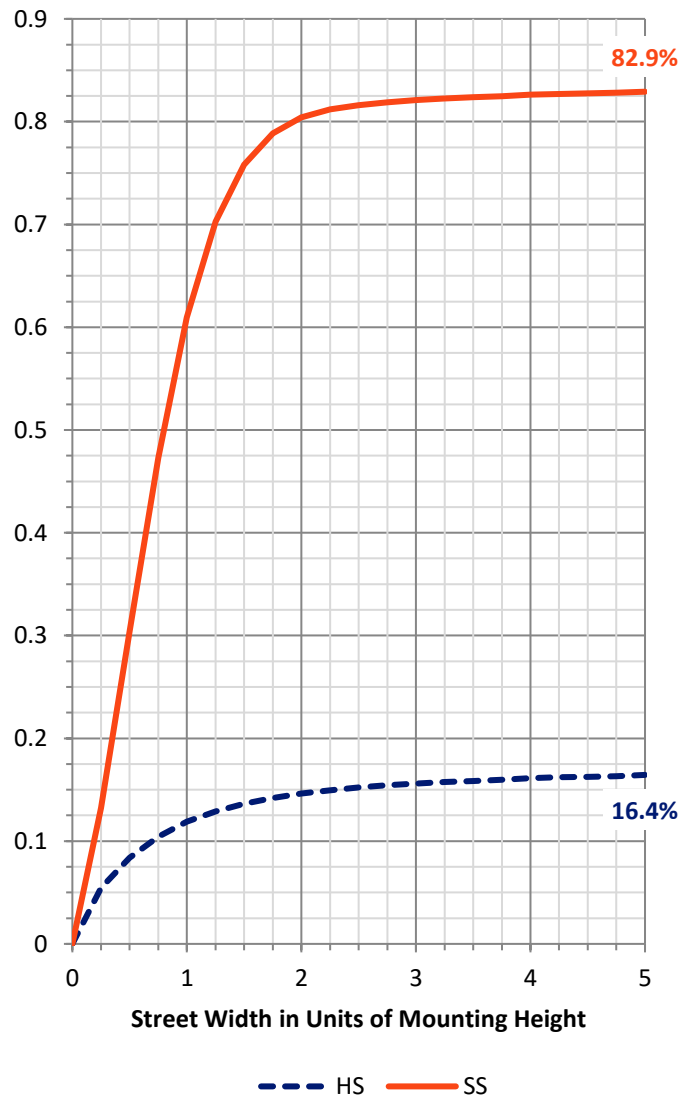
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4182.7	0.0	4182.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	20675.2	0.0	20675.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	24858.0	0.0	24858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.5	1.1
10°-20°	1084.0	4.4
20°-30°	2106.6	8.5
30°-40°	3438.4	13.8
40°-50°	4697.7	18.9
50°-60°	5471.8	22.0
60°-70°	4905.6	19.7
70°-80°	2479.1	10.0
80°-90°	400.3	1.6
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°	24858.0	100.0
0°-180°	24858.0	100.0

Coefficient of Utilization



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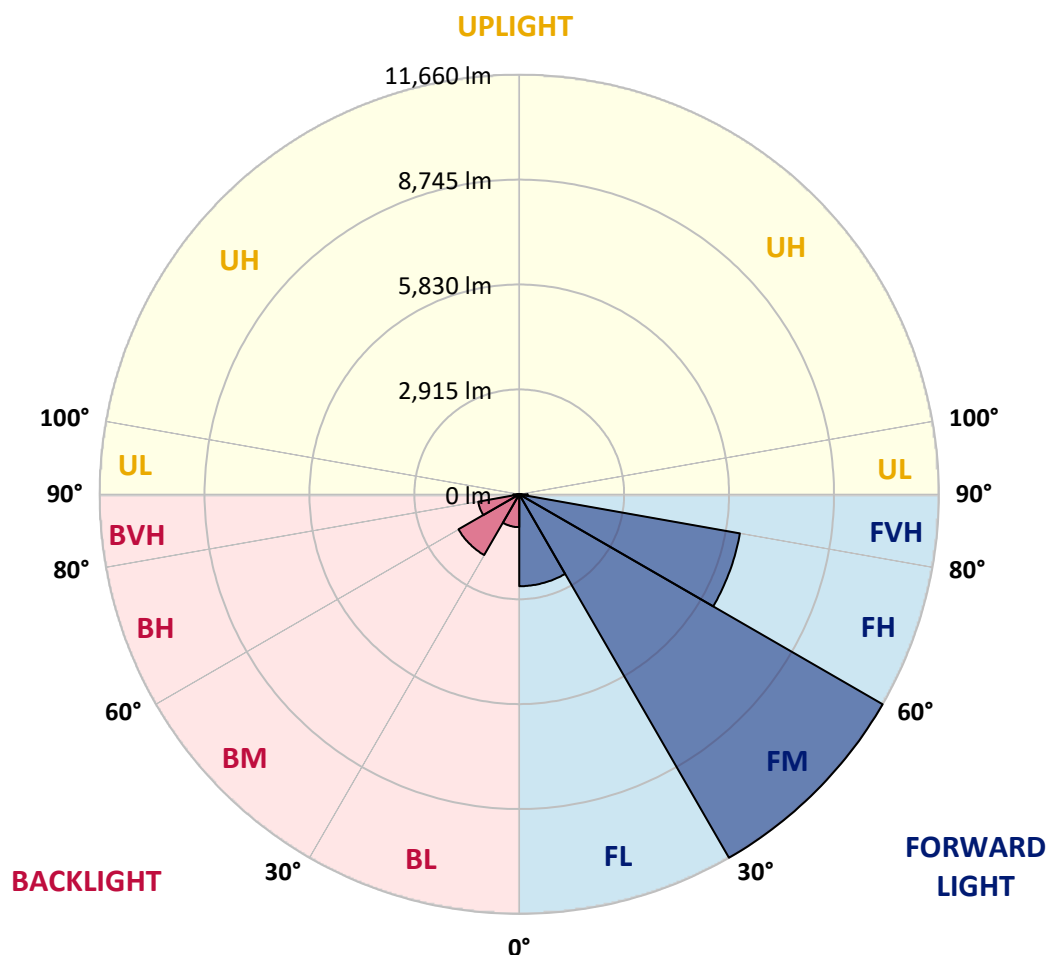
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2552.8	10.3			
FM	(30°-60°)	11660.1	46.9			
FH	(60°-80°)	6225.9	25.0			G3/7500
FVH	(80°-90°)	236.4	1.0			G3/500
BL	(0°-30°)	912.3	3.7	B2/1000		
BM	(30°-60°)	1947.7	7.8	B2/2500		
BH	(60°-80°)	1158.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	163.9	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1
2.5°	3013.6	2968.0	2963.8	2897.1	2881.9	2754.5	2660.8	2562.9	2451.5	2429.6	2341.8
5°	3871.0	3866.8	3808.5	3699.7	3614.4	3396.7	3181.5	2953.7	2703.9	2663.4	2465.9
7.5°	4642.3	4635.6	4590.8	4473.5	4350.3	4082.8	3775.6	3426.2	3021.2	2961.3	2633.8
10°	5228.0	5225.4	5210.3	5124.2	5019.5	4763.0	4423.7	3946.9	3390.0	3308.1	2843.9
12.5°	5680.3	5685.4	5695.5	5665.1	5615.3	5396.8	5049.1	4498.8	3783.2	3702.2	3077.7
15°	5986.6	6001.8	6054.2	6097.2	6123.4	5989.2	5652.5	5063.4	4223.7	4126.7	3336.8
17.5°	6141.1	6158.0	6248.2	6378.2	6498.0	6484.5	6217.0	5601.8	4646.5	4552.9	3615.3
20°	6274.4	6287.1	6388.3	6544.5	6756.3	6850.0	6699.7	6120.0	5109.8	4998.4	3910.6
22.5°	6660.9	6677.0	6707.3	6795.9	6983.3	7155.4	7082.9	6610.3	5534.3	5430.5	4190.8
25°	7406.9	7426.3	7360.5	7285.4	7320.8	7440.7	7454.2	7057.6	5964.7	5847.4	4492.1
27.5°	8305.7	8333.5	8221.3	8028.0	7859.3	7812.8	7796.8	7423.8	6375.7	6239.8	4790.0
30°	9185.9	9234.0	9088.0	8837.3	8527.6	8309.9	8148.7	7782.5	6780.8	6650.8	5071.0
32.5°	10045.8	10026.4	9814.6	9569.8	9207.0	8934.4	8544.5	8167.3	7236.5	7087.1	5350.3
35°	10634.9	10641.6	10445.0	10154.7	9808.7	9599.4	9074.5	8582.5	7701.4	7563.9	5667.6
37.5°	11136.1	11104.9	10882.1	10611.2	10313.3	10223.9	9694.7	9039.9	8205.3	8055.0	6005.2
40°	11303.2	11266.9	11120.9	10926.0	10687.2	10679.6	10379.1	9558.0	8774.9	8626.4	6385.8
42.5°	11202.0	11155.5	11095.6	11042.5	10969.0	11002.8	11022.2	10165.6	9401.1	9234.8	6826.3
45°	10828.1	10758.1	10800.3	10915.9	11075.4	11266.1	11602.8	10838.2	10102.3	9963.1	7343.6
47.5°	10253.4	10190.1	10321.8	10569.0	11002.8	11485.5	12152.2	11580.9	10939.5	10801.1	8080.4
50°	9444.9	9463.5	9651.7	10101.5	10757.2	11586.8	12829.0	12564.0	12156.4	12027.3	9085.4
52.5°	8118.3	8121.7	8651.7	9390.1	10321.8	11534.5	13204.5	13820.6	13818.0	13661.9	10042.4
55°	6886.2	6961.3	7380.8	8362.2	9616.3	11325.2	13467.0	14431.6	14909.2	14726.1	10934.4
57.5°	5682.8	5726.7	6124.2	7109.9	8609.5	10767.3	13736.2	15164.9	16166.6	16051.0	12043.3
60°	4314.0	4381.5	4792.5	5703.1	7321.7	9777.4	13761.5	15930.3	17669.6	17553.2	13281.3
62.5°	2800.1	2916.5	3301.3	4154.5	5763.8	8353.8	13174.2	16430.8	19094.1	19052.8	14380.1
65°	1609.3	1697.1	1964.6	2622.8	3976.5	6566.4	11777.5	16238.4	19970.9	19947.3	14791.1
66°	1314.8	1369.7	1574.7	2049.8	3281.1	5766.4	10965.7	15832.4	20057.9	20058.7	14743.8
67.5°	1051.5	1076.0	1168.0	1467.5	2421.2	4570.6	9515.0	14937.1	19949.8	19979.4	14439.2
70°	870.1	882.7	911.4	984.0	1321.6	2756.2	6753.7	12610.4	18865.4	18888.2	13250.1
72.5°	780.6	788.2	799.2	809.3	932.5	1540.1	4125.0	10088.0	16540.5	16570.0	11438.2
75°	707.2	711.4	709.7	710.6	782.3	981.5	2131.7	7531.8	13374.2	13315.1	8762.2
77.5°	621.1	625.3	616.9	618.6	692.0	754.4	1060.8	5272.7	9025.5	8608.6	4936.8
80°	524.9	528.3	524.9	530.8	602.5	569.6	616.9	2966.3	3990.8	3774.8	1755.3
82.5°	396.6	411.0	421.1	444.7	496.2	405.1	412.7	1155.3	1215.2	1157.0	538.4
85°	173.8	211.8	317.3	340.1	373.0	243.0	270.9	470.9	494.5	479.3	195.8
87.5°	45.6	49.8	157.0	197.5	206.8	109.7	140.9	214.4	226.2	214.4	65.0
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°	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1	2270.1
2.5°	2295.4	2254.1	2179.8	2114.0	2064.2	2030.4	1996.7	1979.8	1969.7	1959.5	1961.2
5°	2368.8	2285.3	2157.9	2067.6	2016.9	1984.9	1968.0	1961.2	1957.0	1946.9	1946.9
7.5°	2479.4	2361.2	2185.7	2092.9	2053.2	2028.7	2018.6	2015.2	2010.2	1998.4	2000.0
10°	2618.6	2453.2	2243.9	2153.6	2117.3	2090.3	2076.0	2070.9	2061.7	2048.1	2049.8
12.5°	2782.3	2567.1	2320.7	2226.2	2182.3	2146.0	2122.4	2108.1	2092.0	2074.3	2075.2
15°	2961.3	2691.2	2403.4	2291.2	2231.3	2180.6	2142.7	2118.2	2092.9	2070.9	2070.1
17.5°	3142.7	2811.0	2466.7	2326.6	2245.6	2179.0	2127.5	2089.5	2058.3	2031.3	2028.7
20°	3338.5	2919.1	2502.2	2323.3	2218.6	2139.3	2070.9	2023.7	1989.1	1962.1	1957.9
22.5°	3537.6	3020.3	2508.1	2288.7	2158.7	2061.7	1989.9	1937.6	1902.2	1874.3	1864.2
25°	3719.9	3098.8	2483.6	2222.0	2075.2	1970.5	1900.5	1847.3	1818.6	1785.7	1775.6
27.5°	3886.2	3153.7	2434.7	2136.8	1981.5	1878.5	1812.7	1767.1	1735.9	1710.6	1702.2
30°	4035.5	3183.2	2354.5	2035.5	1885.3	1791.6	1735.9	1704.7	1677.7	1645.6	1639.7
32.5°	4177.3	3183.2	2251.5	1924.9	1789.9	1714.8	1681.9	1662.5	1632.1	1600.9	1592.4
35°	4319.1	3163.8	2130.0	1809.3	1702.2	1660.0	1658.3	1635.5	1589.1	1546.9	1535.9
37.5°	4468.5	3124.1	1993.3	1701.3	1630.4	1635.5	1649.8	1599.2	1533.4	1473.5	1457.4
40°	4637.2	3069.3	1851.5	1607.6	1570.5	1624.5	1627.0	1546.9	1418.6	1363.7	1349.4
42.5°	4835.6	3014.4	1719.9	1524.9	1523.2	1591.6	1584.0	1433.8	1357.0	1329.1	1321.6
45°	5096.3	2983.2	1595.0	1446.4	1486.1	1538.4	1510.6	1371.3	1339.3	1323.2	1316.5
47.5°	5507.3	2999.2	1480.2	1384.0	1449.0	1485.3	1373.9	1346.0	1323.2	1303.8	1297.1
50°	6022.1	2989.9	1387.4	1341.0	1406.8	1429.6	1312.3	1313.1	1301.3	1279.4	1269.2
52.5°	6409.4	2917.4	1327.5	1316.5	1369.7	1330.8	1273.4	1281.0	1275.1	1243.1	1232.1
55°	6783.3	2854.9	1297.1	1307.2	1342.6	1207.6	1227.9	1246.4	1240.5	1209.3	1204.2
57.5°	7248.3	2843.1	1278.5	1309.7	1319.9	1146.0	1184.0	1208.5	1204.2	1190.7	1188.2
60°	7817.9	2846.5	1261.6	1314.0	1294.5	1100.4	1142.6	1173.9	1176.4	1173.9	1172.2
62.5°	8131.0	2754.5	1219.4	1302.1	1249.8	1060.8	1099.6	1145.2	1146.0	1151.1	1150.2
65°	7865.2	2479.4	1141.0	1260.8	1174.7	1027.9	1062.5	1112.3	1099.6	1122.4	1122.4
66°	7606.9	2320.7	1102.1	1233.8	1142.6	1015.2	1050.7	1095.4	1079.4	1110.6	1110.6
67.5°	7079.5	2053.2	1032.1	1176.4	1097.1	997.5	1037.2	1067.5	1045.6	1092.0	1088.6
70°	6115.8	1588.2	891.2	1046.4	1022.0	971.3	1018.6	1011.8	979.8	1050.7	1037.2
72.5°	5156.2	1206.8	715.6	876.0	908.0	938.4	992.4	941.0	900.4	950.2	920.7
75°	4000.9	907.2	565.4	681.0	767.1	886.9	961.2	859.1	800.9	795.8	779.8
77.5°	2162.9	622.8	448.1	519.8	609.3	822.8	940.1	771.3	683.6	663.3	650.6
80°	856.6	405.1	325.7	394.1	426.2	730.0	889.5	669.2	563.7	543.5	524.1
82.5°	353.6	239.7	210.1	264.1	277.6	624.5	798.3	548.5	435.5	602.5	639.7
85°	151.9	131.6	124.9	136.7	157.0	438.0	635.5	418.6	470.1	419.4	333.3
87.5°	45.6	55.7	53.2	52.3	57.4	104.6	338.4	232.9	345.2	130.8	97.9
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)