

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: P320899

Luminaire Tested: **GAN-SA5D-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320899
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-SA5D-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33270 lumens
Efficiency: N/A
Efficacy: 104.0 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): 320
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



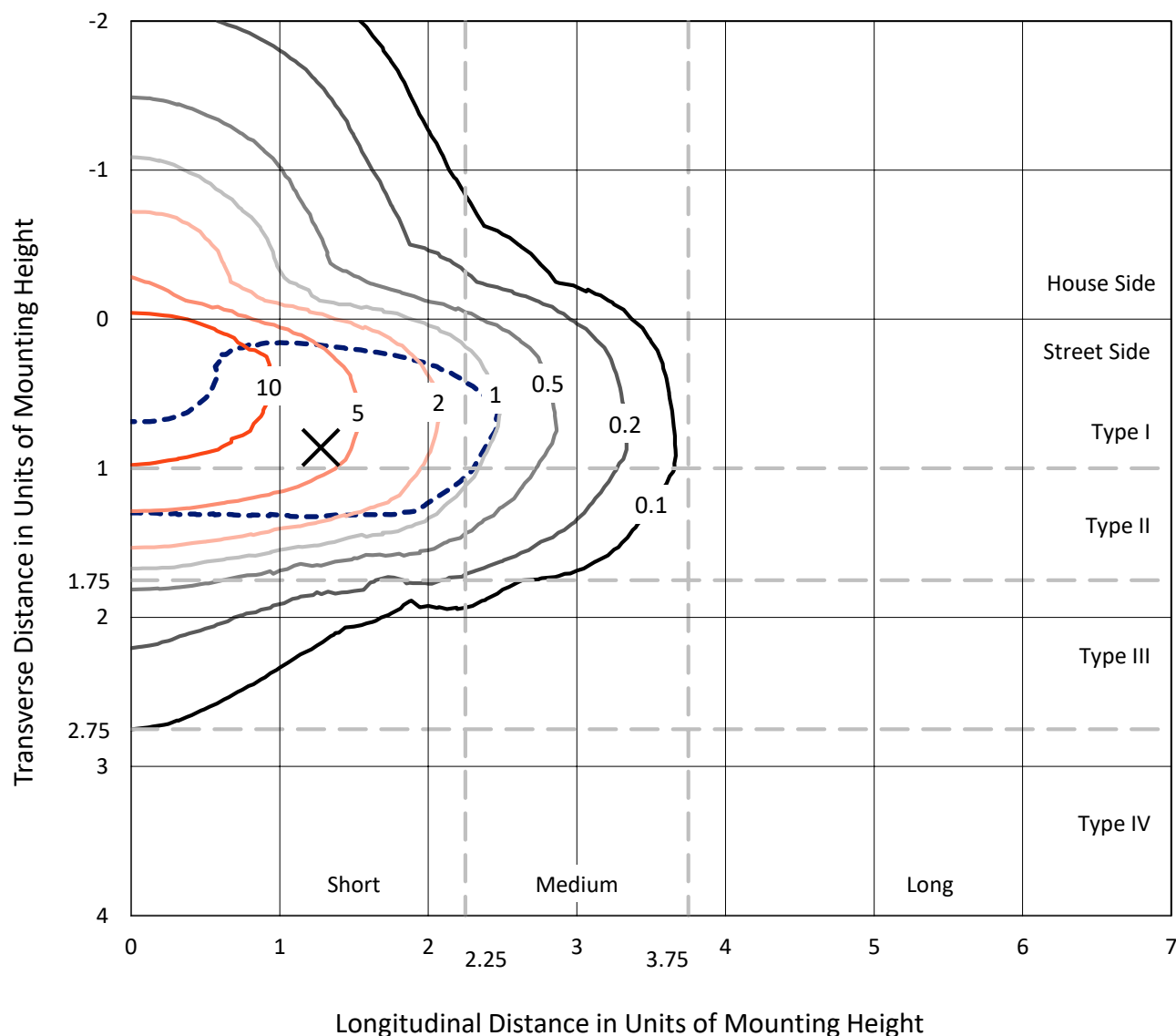
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

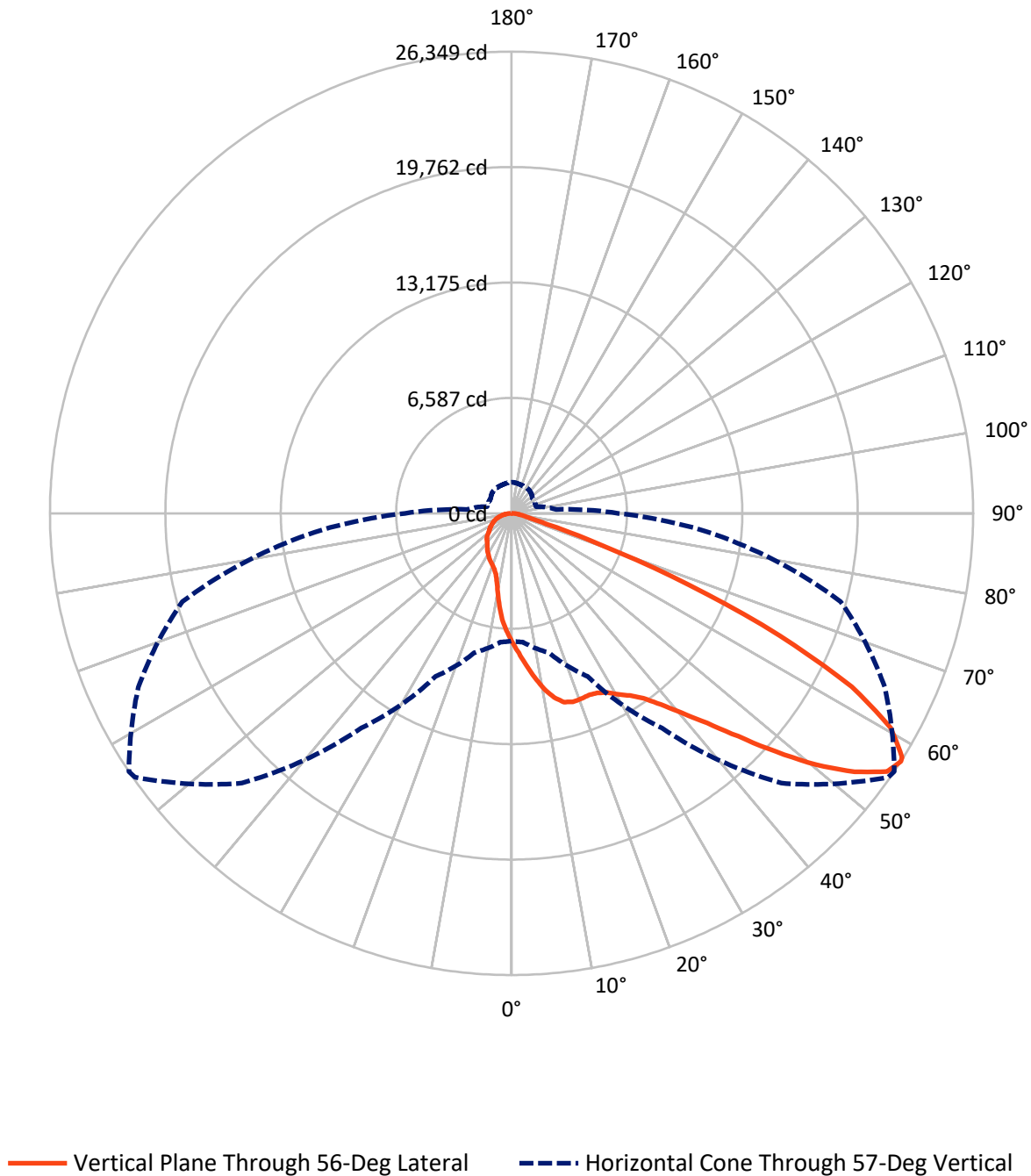


Based on 25 foot mounting height. Maximum calculated value = 16.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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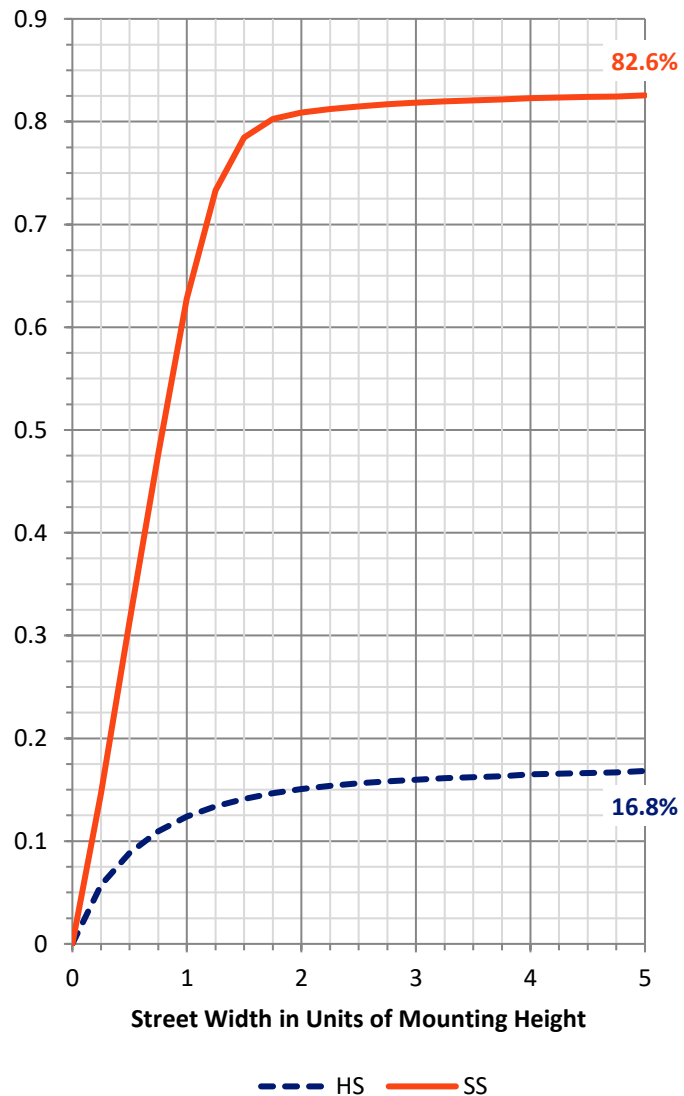
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5735.0	0.0	5735.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	27535.0	0.0	27535.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	33270.0	0.0	33270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.9	2.1
10°-20°	1992.9	6.0
20°-30°	3246.1	9.8
30°-40°	4852.6	14.6
40°-50°	7360.3	22.1
50°-60°	8249.7	24.8
60°-70°	4872.6	14.6
70°-80°	1596.4	4.8
80°-90°	394.4	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°	33270.0	100.0
0°-180°	33270.0	100.0

Coefficient of Utilization



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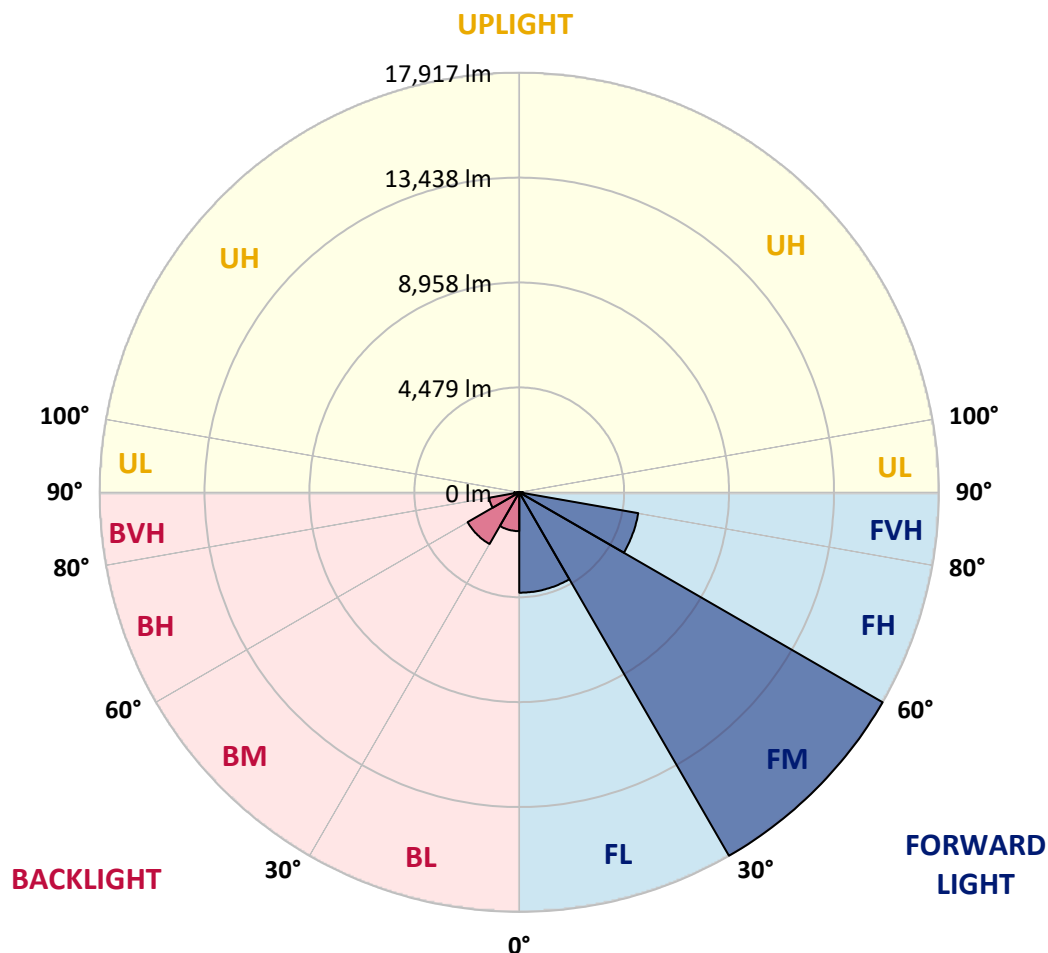
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4285.7	12.9			
FM	(30°-60°)	17917.0	53.9			
FH	(60°-80°)	5158.6	15.5			G3/7500
FVH	(80°-90°)	173.7	0.5			G2/225
BL	(0°-30°)	1658.3	5.0	B3/2500		
BM	(30°-60°)	2545.6	7.7	B3/5000		
BH	(60°-80°)	1310.4	3.9	B3/2500		G3/2500
BVH	(80°-90°)	220.8	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7379.3	7379.3	7379.3	7379.3	7379.3	7379.3	7379.3	7379.3	7379.3	7379.3	7379.3
2.5°	8473.5	8551.3	8517.0	8398.1	8306.6	8177.4	8033.3	7989.9	7837.8	7667.4	7462.8
5°	9814.7	9775.8	9719.8	9534.6	9339.1	9111.5	8750.2	8693.0	8354.6	7969.3	7562.3
7.5°	10578.5	10575.0	10541.9	10433.3	10254.9	9957.6	9522.0	9454.5	8943.4	8323.7	7692.6
10°	10467.6	10459.6	10514.4	10627.6	10681.4	10619.6	10252.6	10185.1	9557.4	8715.9	7843.5
12.5°	9837.6	9842.1	9930.2	10168.0	10491.6	10880.3	10820.9	10787.7	10194.3	9159.5	8026.5
15°	9347.1	9357.3	9427.1	9634.0	10015.9	10721.4	11166.2	11177.6	10810.6	9648.9	8240.3
17.5°	9132.1	9153.8	9185.8	9331.1	9680.9	10404.7	11248.5	11310.2	11350.2	10156.6	8446.1
20°	9200.7	9221.3	9230.4	9323.0	9610.0	10212.6	11191.3	11302.2	11764.1	10634.5	8651.9
22.5°	9508.3	9520.9	9526.6	9550.6	9773.5	10267.5	11153.6	11270.2	12063.7	11063.3	8807.4
25°	10018.2	10009.1	9972.5	9941.6	10091.4	10484.7	11240.5	11351.4	12307.2	11452.0	8909.1
27.5°	10628.8	10617.3	10546.5	10461.8	10547.6	10823.1	11490.9	11578.9	12525.6	11815.6	8960.6
30°	11361.7	11331.9	11198.2	11097.6	11130.7	11330.8	11903.6	11983.7	12862.9	12228.4	9010.9
32.5°	12208.9	12176.9	11983.7	11816.7	11816.7	11983.7	12329.0	12395.3	13148.8	12694.8	9092.1
35°	13270.0	13229.9	12978.4	12698.3	12619.4	12704.0	12908.7	12955.5	13663.3	13282.5	9239.6
37.5°	14520.8	14467.1	14141.2	13766.2	13593.5	13589.0	13736.5	13832.5	14485.4	14054.3	9490.0
40°	15775.1	15737.4	15452.7	15157.7	14819.2	14710.6	14938.1	14967.9	15560.1	15012.5	9810.1
42.5°	16744.7	16737.8	16685.2	16724.1	16377.6	16158.1	16336.5	16360.5	16872.7	16049.5	10150.8
45°	17256.9	17268.3	17523.3	18088.1	18216.2	18056.1	18144.2	18151.0	18372.8	17095.7	10463.0
47.5°	16846.4	16905.9	17550.7	18814.2	19862.6	20394.3	20248.0	20332.6	19827.2	17994.4	10707.7
50°	15246.9	15320.0	16417.7	18490.6	20631.0	22657.0	22580.4	22561.0	21000.3	18653.0	10840.3
52.5°	13265.4	13322.6	14228.1	16808.7	20067.3	23907.9	24611.1	24510.4	22043.0	19145.7	10865.5
55°	10248.0	10337.2	11205.0	13451.8	17787.4	23430.0	26104.3	26014.0	22993.2	19404.1	10835.7
57°	7285.6	7379.3	8241.4	10266.3	14963.3	21775.5	26252.9	26349.0	23506.6	19447.6	10868.9
57.5°	6501.2	6597.3	7451.3	9417.9	14082.9	21177.5	26124.9	26285.0	23599.2	19440.7	10887.2
60°	3273.5	3310.1	3854.3	5257.2	8902.3	17120.8	24454.4	24867.2	23682.6	19104.6	10966.1
62.5°	2035.2	2008.9	1991.8	2421.7	4331.1	11353.7	21007.2	21801.8	22085.4	18290.5	10775.1
65°	1789.4	1740.2	1551.6	1517.3	1912.9	5514.5	15819.7	16808.7	18672.4	17007.6	10320.1
67.5°	1680.8	1632.7	1420.1	1292.0	1293.2	2186.1	9821.6	10935.2	14546.0	14838.7	9246.4
70°	1568.7	1525.3	1326.3	1175.4	1101.1	1210.8	4518.6	5363.6	9482.0	11663.5	7728.0
72.5°	1424.6	1394.9	1206.3	1050.8	971.9	906.7	1729.9	2043.2	5489.3	7833.2	5367.0
75°	1273.7	1246.3	1085.1	936.4	840.4	713.5	974.2	1049.6	2788.7	4007.5	2642.3
77.5°	1107.9	1091.9	965.0	827.8	751.2	591.1	689.5	726.0	1196.0	1718.5	1325.2
80°	881.5	912.4	843.8	737.5	666.6	473.4	488.2	512.2	696.3	839.2	752.3
82.5°	574.0	627.7	660.9	599.1	548.8	372.7	351.0	361.3	453.9	512.2	327.0
85°	239.0	268.7	434.5	392.2	364.7	272.1	235.5	240.1	281.3	291.6	133.8
87.5°	106.3	113.2	190.9	179.5	154.4	93.8	100.6	109.8	149.8	141.8	51.5
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°	7379.3	7379.3	7379.3	7379.3	7379.3	7379.3	7379.3	7379.3	7379.3	7379.3	7379.3
2.5°	7386.2	7290.1	7125.5	6943.7	6795.1	6676.1	6556.1	6473.8	6377.7	6326.3	6300.0
5°	7391.9	7203.2	6856.8	6501.2	6183.4	5892.9	5616.2	5403.6	5204.6	5097.1	5067.4
7.5°	7415.9	7132.3	6572.1	5986.7	5421.9	4906.2	4508.3	4259.1	4079.5	3999.5	3976.6
10°	7435.3	7048.9	6219.9	5353.3	4584.9	4062.4	3753.7	3614.2	3552.5	3542.2	3531.9
12.5°	7481.1	6963.1	5849.5	4692.4	3934.3	3573.0	3465.6	3456.4	3473.6	3498.7	3498.7
15°	7553.1	6878.5	5426.4	4125.3	3520.4	3393.5	3415.2	3465.6	3512.4	3551.3	3557.0
17.5°	7605.7	6774.5	4971.4	3671.4	3299.8	3334.1	3411.8	3482.7	3530.7	3568.5	3571.9
20°	7643.4	6613.3	4485.4	3324.9	3172.9	3279.2	3376.4	3439.3	3472.4	3510.1	3515.9
22.5°	7624.0	6397.2	4054.4	3076.8	3070.0	3199.2	3291.8	3367.2	3342.1	3305.5	3329.5
25°	7530.2	6099.9	3610.8	2891.6	2961.3	3091.7	3206.0	3155.7	3071.1	3055.1	3064.2
27.5°	7363.3	5720.3	3200.3	2720.1	2835.6	2992.2	2985.3	2935.0	2905.3	2884.7	2897.3
30°	7183.8	5308.7	2841.3	2570.3	2696.1	2825.3	2799.0	2797.8	2768.1	2734.9	2751.0
32.5°	7006.6	4894.8	2556.6	2446.8	2590.9	2608.0	2665.2	2682.3	2624.0	2554.3	2549.7
35°	6852.2	4503.7	2340.5	2334.8	2464.0	2466.3	2549.7	2525.7	2380.5	2308.5	2308.5
37.5°	6736.7	4113.8	2175.8	2234.1	2297.0	2356.5	2398.8	2299.3	2275.3	2235.3	2234.1
40°	6686.4	3770.8	2072.9	2157.5	2179.3	2254.7	2146.1	2185.0	2196.4	2175.8	2175.8
42.5°	6633.8	3472.4	1983.7	2099.2	2095.8	2085.5	2030.6	2080.9	2126.7	2127.8	2124.4
45°	6581.2	3215.2	1904.9	1974.6	2022.6	1911.7	1922.0	1975.7	2039.8	2062.6	2062.6
47.5°	6522.9	3011.6	1832.8	1843.1	1917.4	1843.1	1835.1	1876.3	1951.7	1988.3	1996.3
50°	6394.9	2828.7	1750.5	1727.6	1748.2	1773.4	1780.2	1799.7	1883.1	1941.4	1955.2
52.5°	6217.7	2665.2	1645.3	1621.3	1621.3	1716.2	1748.2	1753.9	1824.8	1894.6	1908.3
55°	6070.2	2561.2	1536.7	1532.1	1527.5	1655.6	1710.5	1719.6	1768.8	1823.7	1830.5
57°	6080.4	2553.1	1453.2	1457.8	1456.7	1593.9	1675.0	1694.5	1719.6	1766.5	1774.5
57.5°	6086.2	2558.9	1434.9	1437.2	1436.1	1576.7	1664.7	1686.5	1705.9	1755.1	1763.1
60°	6171.9	2573.7	1360.6	1335.5	1341.2	1485.2	1606.4	1633.9	1646.5	1711.6	1721.9
62.5°	6045.0	2507.4	1301.2	1240.6	1240.6	1389.2	1525.3	1568.7	1588.1	1676.2	1693.3
65°	5676.8	2321.0	1231.4	1133.1	1144.5	1293.2	1428.1	1499.0	1528.7	1638.5	1656.7
67.5°	5108.6	2104.9	1157.1	1037.0	1048.5	1192.5	1327.5	1404.1	1450.9	1597.3	1612.2
70°	4368.8	1840.8	1056.5	935.3	949.0	1082.8	1208.5	1295.4	1365.2	1558.4	1563.0
72.5°	3220.9	1509.2	915.8	823.2	838.1	954.7	1088.5	1189.1	1282.9	1461.2	1458.9
75°	1915.1	1180.0	760.3	710.0	720.3	828.9	979.9	1102.2	1242.8	1423.5	1445.2
77.5°	1161.7	888.4	619.7	594.6	607.1	718.0	902.1	1032.5	1225.7	1342.3	1335.5
80°	702.0	634.6	495.1	479.1	491.6	614.0	834.7	979.9	1071.3	1146.8	1146.8
82.5°	367.0	387.6	363.6	351.0	368.2	498.5	759.2	855.2	946.7	812.9	759.2
85°	149.8	202.4	220.7	219.5	229.8	345.3	655.2	731.8	610.6	579.7	593.4
87.5°	50.3	85.8	107.5	92.6	97.2	217.2	453.9	353.3	419.6	292.7	277.8
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)