

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: P192712

Luminaire Tested: **GAN-AF-04-LED-U-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-AFL-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23825.1 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

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: 28.75 FT

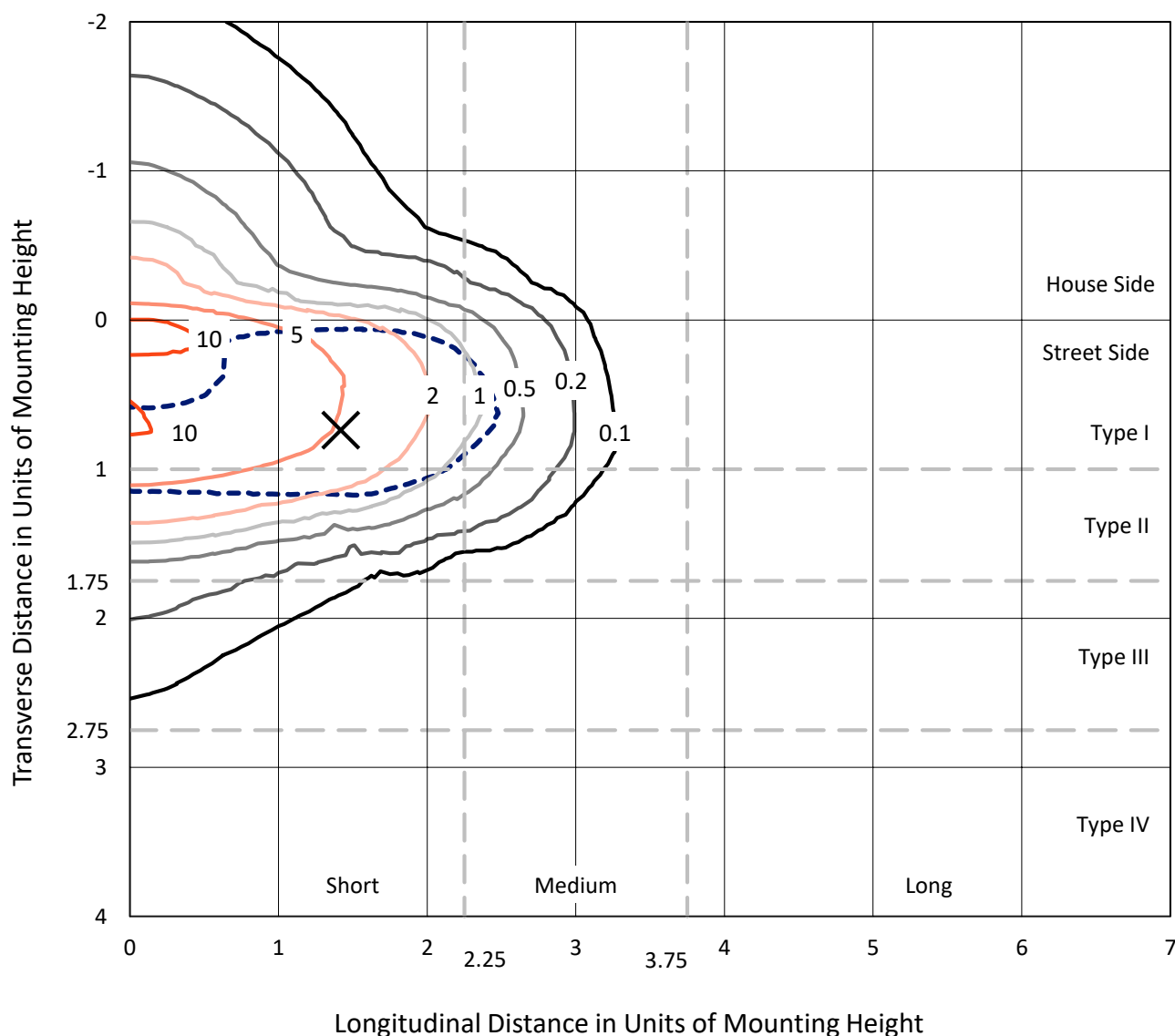


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

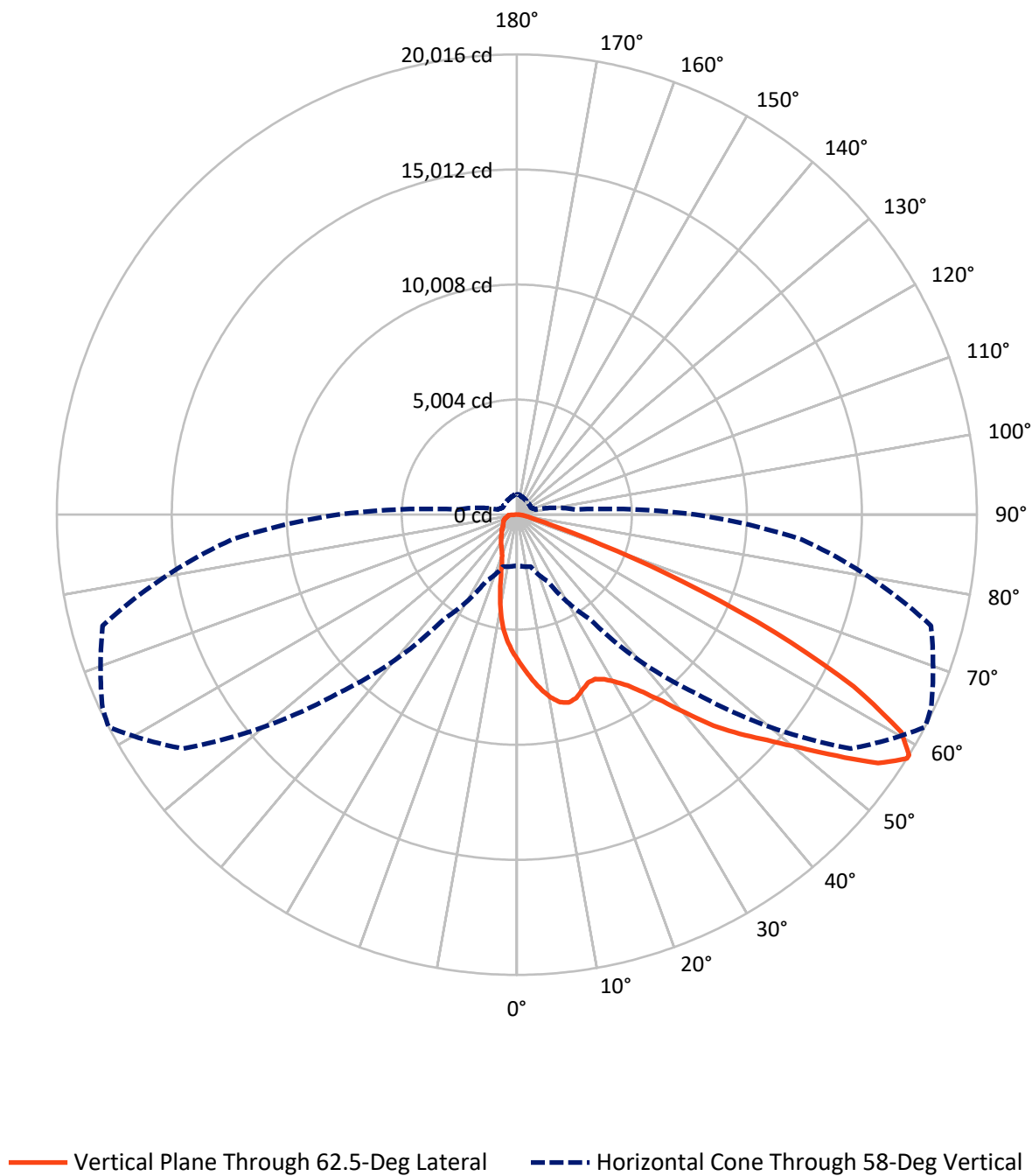


Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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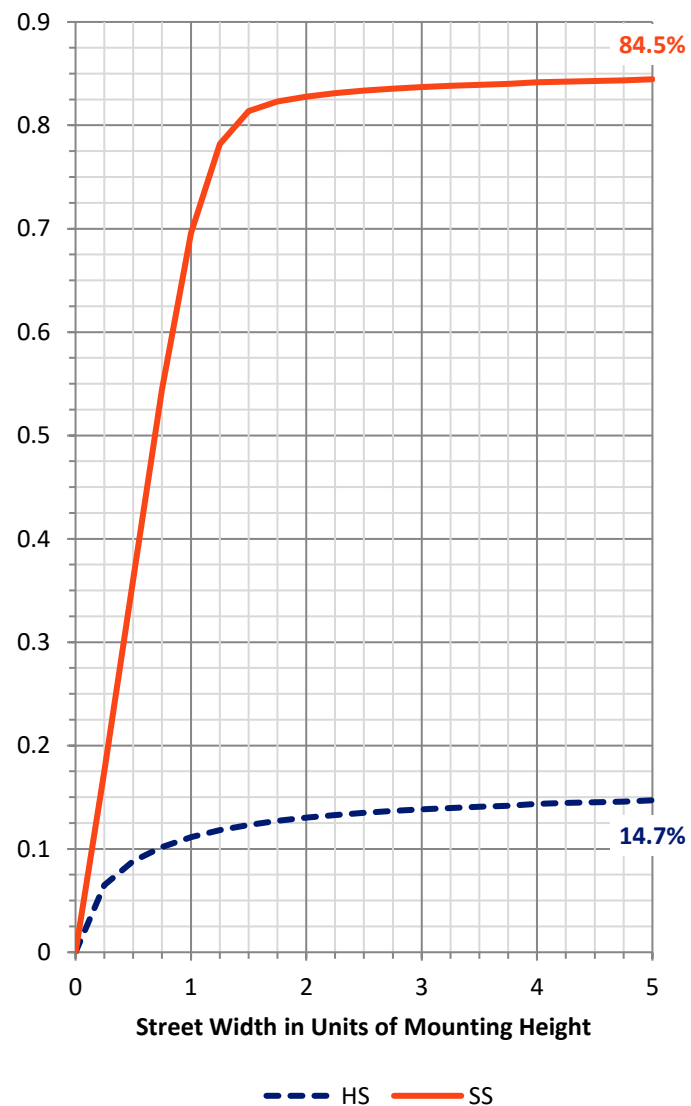
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3633.4	0.0	3633.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	20191.7	0.0	20191.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	23825.1	0.0	23825.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.0	2.4
10°-20°	1446.8	6.1
20°-30°	2338.8	9.8
30°-40°	3712.8	15.6
40°-50°	5432.6	22.8
50°-60°	5682.1	23.8
60°-70°	3357.0	14.1
70°-80°	945.7	4.0
80°-90°	343.3	1.4
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°	23825.1	100.0
0°-180°	23825.1	100.0

Coefficient of Utilization



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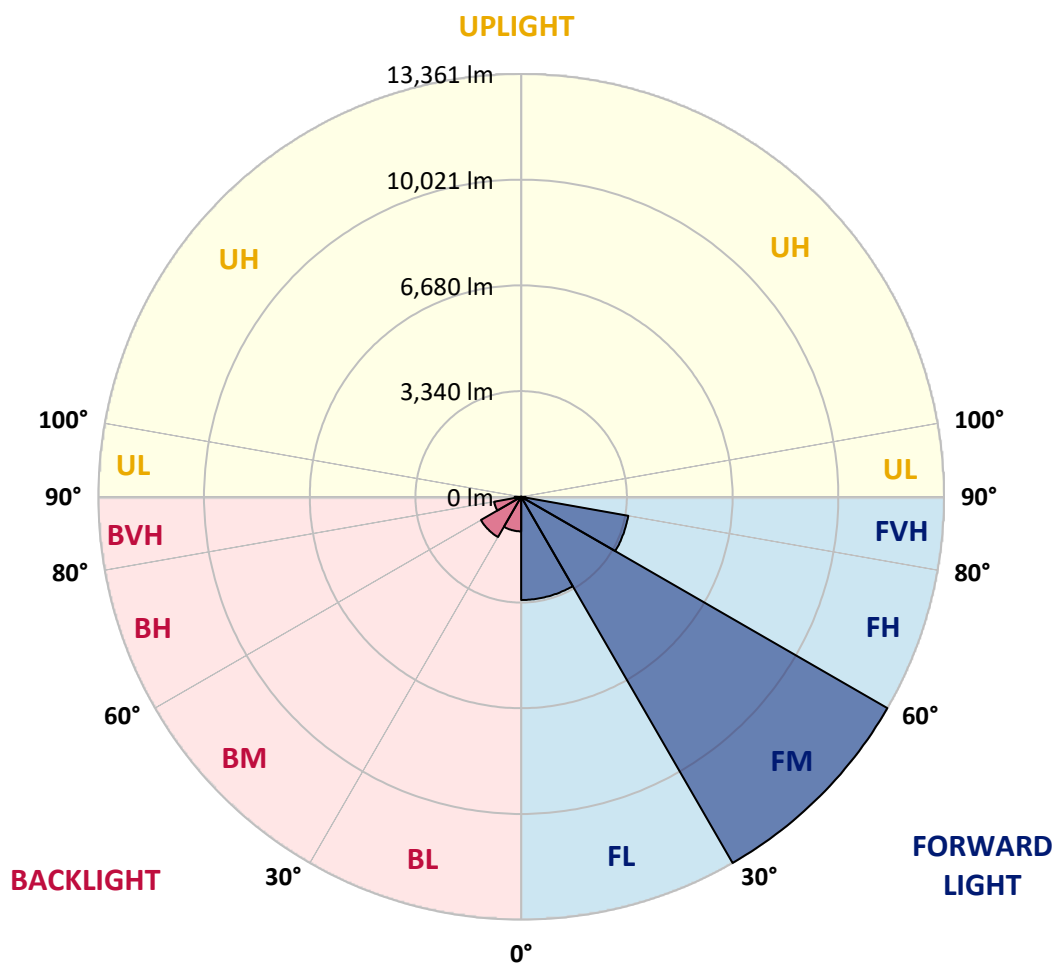
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3259.6	13.7			
FM	(30°-60°)	13361.0	56.1			
FH	(60°-80°)	3435.7	14.4			G2/5000
FVH	(80°-90°)	135.5	0.6			G2/225
BL	(0°-30°)	1092.0	4.6	B3/2500		
BM	(30°-60°)	1466.5	6.2	B2/2500		
BH	(60°-80°)	867.0	3.6	B2/1000		G2/1000
BVH	(80°-90°)	207.9	0.9			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°	62.5°	65°	75°	85°
0°	6328.7	6328.7	6328.7	6328.7	6328.7	6328.7	6328.7	6328.7	6328.7	6328.7	6328.7
2.5°	7231.8	7173.4	7136.4	7103.9	7061.2	6970.4	6848.1	6770.7	6731.4	6597.9	6439.7
5°	7940.9	7889.2	7851.1	7807.3	7731.0	7588.5	7391.1	7234.0	7156.6	6889.6	6573.2
7.5°	7774.8	7796.0	7862.3	7977.9	8076.6	8057.6	7881.3	7681.7	7579.6	7208.3	6728.0
10°	6774.1	6811.1	6925.5	7196.0	7633.4	8082.1	8219.0	8081.1	7977.9	7523.5	6887.3
12.5°	6573.2	6572.1	6581.1	6652.9	6913.2	7544.8	8230.3	8369.4	8307.6	7824.2	7050.1
15°	6655.1	6657.3	6650.6	6680.8	6761.7	7011.9	7887.0	8480.4	8524.2	8127.0	7218.3
17.5°	6870.6	6864.9	6839.1	6839.1	6868.2	6966.0	7483.0	8377.2	8579.1	8395.2	7366.4
20°	7231.8	7205.9	7137.6	7074.7	7043.3	7096.1	7317.1	8139.4	8483.9	8629.7	7488.7
22.5°	7669.4	7649.1	7538.1	7403.4	7294.5	7293.5	7402.4	7931.9	8318.9	8850.6	7591.9
25°	8234.8	8202.2	8037.3	7821.9	7631.2	7558.2	7588.5	7921.8	8229.2	9090.8	7683.8
27.5°	8898.9	8839.5	8644.3	8333.5	8053.0	7906.0	7862.3	8104.7	8311.1	9388.1	7811.8
30°	9704.4	9636.0	9385.8	8980.8	8584.8	8343.6	8250.5	8428.8	8582.6	9750.4	8017.1
32.5°	10621.1	10522.3	10232.9	9786.4	9265.7	8897.7	8746.3	8857.4	8979.7	10186.9	8273.9
35°	11887.6	11769.9	11351.4	10735.5	10147.6	9641.6	9399.2	9480.1	9599.0	10837.5	8645.3
37.5°	12751.5	12698.7	12420.6	11841.6	11202.2	10619.9	10245.2	10292.3	10359.6	11651.0	9121.1
40°	12743.7	12765.0	12770.6	12776.2	12341.0	11783.3	11380.6	11331.2	11317.7	12543.9	9661.8
42.5°	12105.3	12192.8	12475.6	13048.9	13313.6	13057.8	12688.8	12546.2	12475.6	13596.3	10235.1
45°	11128.2	11175.2	11704.8	12824.5	13811.7	14319.9	14040.6	13591.9	13463.9	14563.3	10710.8
47.5°	10624.4	10676.0	11009.2	12229.8	13806.1	15339.8	15501.2	14646.4	14417.6	15404.8	11121.4
50°	9425.1	9532.8	9952.4	11195.5	13302.5	15808.7	17028.2	15902.9	15429.5	16223.8	11533.2
52.5°	7222.8	7388.8	7858.9	9494.6	12024.5	15576.4	18250.0	17426.6	16757.8	17072.0	11886.6
55°	4556.0	4679.5	5074.3	6705.6	9619.1	14368.1	18713.3	19074.6	18480.0	17875.3	12192.8
57.5°	2477.1	2532.1	2680.2	3702.2	6256.8	11697.0	18037.9	20012.5	19765.6	18557.3	12424.0
58°	2216.9	2253.9	2345.9	3208.6	5548.9	10966.6	17738.4	20015.9	19892.4	18657.2	12441.9
60°	1644.7	1625.7	1543.8	1830.9	3088.5	7576.1	15927.6	19214.8	19577.2	18779.5	12354.4
62.5°	1445.1	1399.1	1231.9	1212.8	1502.2	3490.3	12187.3	16459.4	17315.4	18081.7	11822.6
65°	1357.5	1308.2	1092.7	1023.2	1083.8	1476.4	7179.1	12344.3	13417.9	15965.7	10462.8
67.5°	1292.4	1228.5	1004.1	908.7	913.2	976.0	2877.7	7774.8	8983.1	12122.1	8138.2
70°	1229.6	1160.0	928.9	819.0	793.2	771.9	1144.4	3892.0	4988.0	7657.0	5188.8
72.5°	1162.3	1093.9	862.7	748.3	697.8	627.1	747.3	1592.0	2223.7	3622.6	2353.8
75°	1064.7	1003.0	796.5	685.5	613.7	519.4	564.4	831.4	997.3	1442.8	1134.2
77.5°	944.6	894.2	722.5	633.9	544.1	421.8	434.2	576.7	639.5	825.7	674.2
80°	678.7	696.7	642.9	569.9	484.7	342.2	333.2	420.7	454.4	530.7	438.6
82.5°	476.8	486.9	531.8	465.6	400.6	269.3	245.8	296.2	316.5	348.9	236.8
85°	328.8	317.5	364.6	324.3	289.4	179.5	168.3	200.8	213.2	216.6	122.3
87.5°	197.4	197.4	210.9	173.9	155.9	93.1	90.9	114.4	122.3	116.7	67.3
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°	6328.7	6328.7	6328.7	6328.7	6328.7	6328.7	6328.7	6328.7	6328.7	6328.7	6328.7
2.5°	6345.4	6265.8	6096.4	5960.6	5789.0	5610.7	5510.8	5404.2	5331.3	5278.6	5362.7
5°	6393.8	6231.0	5881.0	5548.9	5182.0	4800.7	4511.2	4241.9	4054.5	3937.9	4047.8
7.5°	6470.0	6219.8	5662.3	5094.5	4436.0	3801.0	3233.3	2877.7	2670.1	2568.0	2631.9
10°	6557.5	6201.9	5405.3	4478.6	3536.2	2736.3	2312.3	2168.7	2121.5	2102.4	2111.4
12.5°	6630.4	6163.8	5090.1	3733.7	2655.5	2160.8	2038.4	2035.2	2045.3	2047.5	2050.8
15°	6682.1	6107.6	4622.2	2957.3	2123.8	1969.0	1962.2	1982.4	2001.5	2009.3	2013.8
17.5°	6716.8	5992.1	4093.8	2338.0	1902.7	1875.9	1891.5	1917.3	1937.5	1943.1	1947.6
20°	6713.4	5822.7	3464.4	1949.8	1782.7	1782.7	1809.7	1829.9	1830.9	1824.2	1827.6
22.5°	6678.7	5590.5	2854.1	1743.4	1676.1	1695.1	1722.2	1703.1	1624.4	1572.9	1576.3
25°	6620.3	5313.3	2331.3	1612.1	1577.3	1611.0	1603.2	1459.6	1347.3	1296.9	1296.9
27.5°	6568.7	4985.7	1929.6	1497.7	1478.8	1520.2	1381.0	1250.9	1203.8	1180.2	1172.4
30°	6531.7	4632.4	1661.5	1387.8	1385.5	1355.3	1198.1	1162.3	1154.5	1135.3	1128.6
32.5°	6540.7	4274.4	1489.9	1291.3	1299.2	1160.0	1110.7	1118.5	1111.8	1091.6	1082.6
35°	6614.8	3934.5	1377.6	1203.8	1180.2	1047.9	1059.0	1073.7	1071.4	1043.3	1034.3
37.5°	6747.1	3612.5	1303.7	1130.9	1029.9	991.7	1009.7	1032.2	1026.5	1007.5	1000.7
40°	6886.3	3309.6	1243.1	1073.7	941.3	953.7	969.3	981.7	987.2	992.8	988.4
42.5°	7022.0	2993.2	1169.1	1015.3	904.2	917.7	924.5	936.8	967.1	988.4	987.2
45°	7102.7	2696.0	1092.7	932.3	875.0	883.0	878.5	903.1	940.1	974.9	976.0
47.5°	7192.5	2464.8	1032.2	856.0	847.1	852.7	839.2	863.9	897.6	940.1	944.6
50°	7301.4	2326.7	983.9	795.4	808.8	808.8	805.6	827.9	875.0	924.5	933.4
52.5°	7424.7	2299.9	943.6	751.7	770.8	769.6	773.0	806.7	858.2	906.6	914.4
55°	7575.1	2372.8	899.7	719.2	733.6	738.3	749.4	787.5	831.4	886.3	889.7
57.5°	7750.1	2520.9	865.0	693.4	700.1	714.7	732.6	767.3	814.5	875.0	878.5
58°	7779.3	2552.3	859.4	691.1	693.4	710.1	730.4	764.0	811.1	877.4	880.7
60°	7780.4	2656.6	847.1	681.0	667.6	695.6	718.1	751.7	805.6	885.2	893.0
62.5°	7504.4	2655.5	838.0	666.4	640.6	675.3	701.2	740.4	799.9	904.2	920.0
65°	6608.0	2413.2	795.4	644.0	619.3	657.4	686.5	732.6	815.6	987.2	997.3
67.5°	5168.6	1977.9	715.7	612.5	591.2	639.5	677.6	731.5	832.4	1006.4	1013.1
70°	3417.3	1479.8	628.2	576.7	562.0	618.2	682.1	769.6	813.3	966.0	948.1
72.5°	1773.8	1038.8	557.6	531.8	528.4	599.1	747.3	765.2	794.4	908.7	886.3
75°	931.2	721.3	495.9	482.4	488.1	594.6	881.8	744.9	769.6	869.4	912.1
77.5°	569.9	582.3	443.1	437.6	448.7	581.1	880.7	719.2	733.6	799.9	847.1
80°	381.5	472.3	402.7	403.9	411.7	531.8	790.9	678.7	690.0	756.2	804.3
82.5°	241.3	279.3	365.7	384.8	374.8	438.6	672.1	618.2	633.9	865.0	914.4
85°	122.3	175.1	317.5	370.3	337.7	307.4	545.2	541.9	549.7	623.8	651.8
87.5°	56.0	96.4	247.9	323.1	254.7	191.9	396.1	401.6	433.1	443.1	443.1
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)