

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: P192693

Luminaire Tested: **GAN-AF-05-LED-U-AFL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192693
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-05-LED-U-AFL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 19448.2 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 162
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

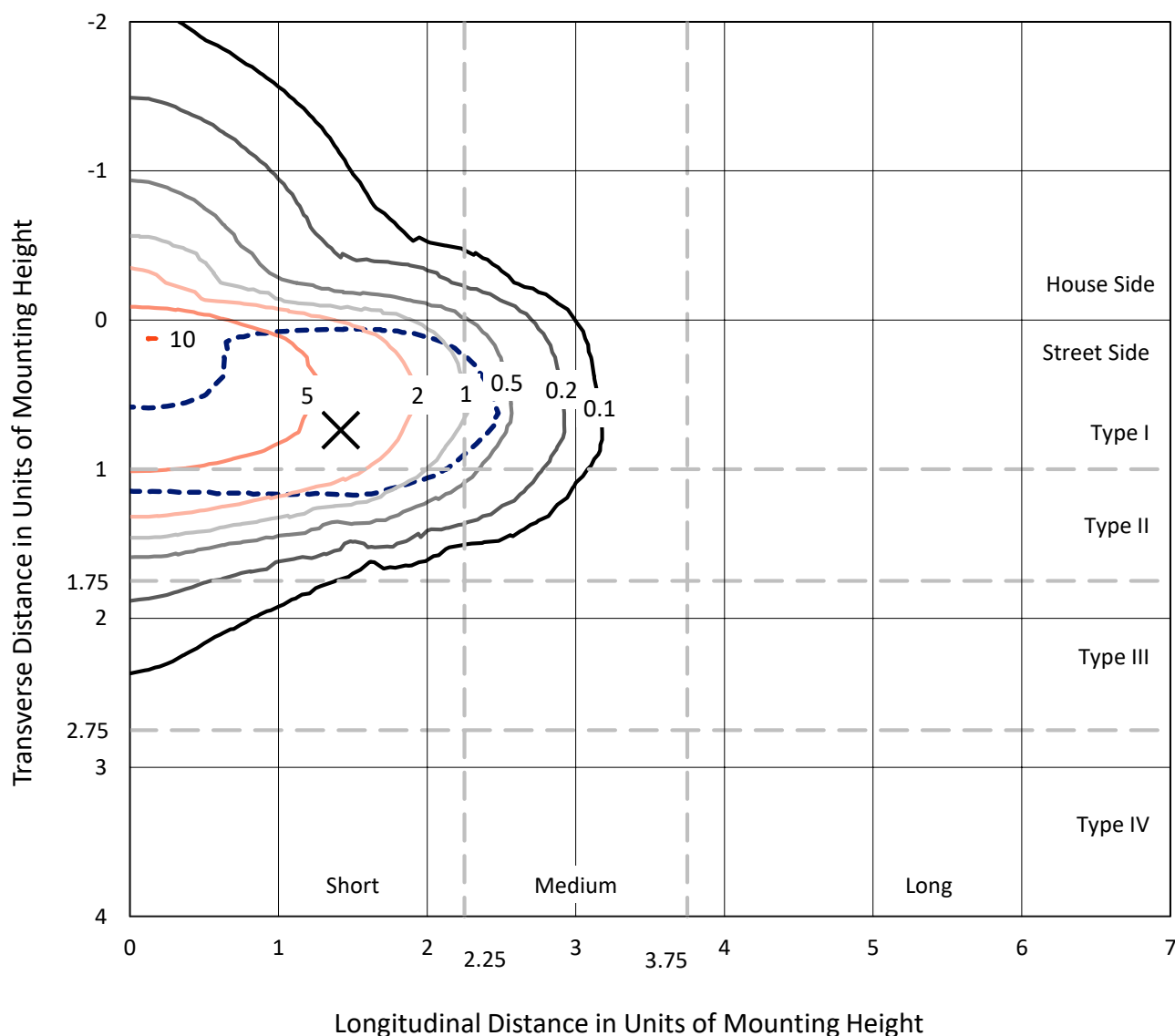


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

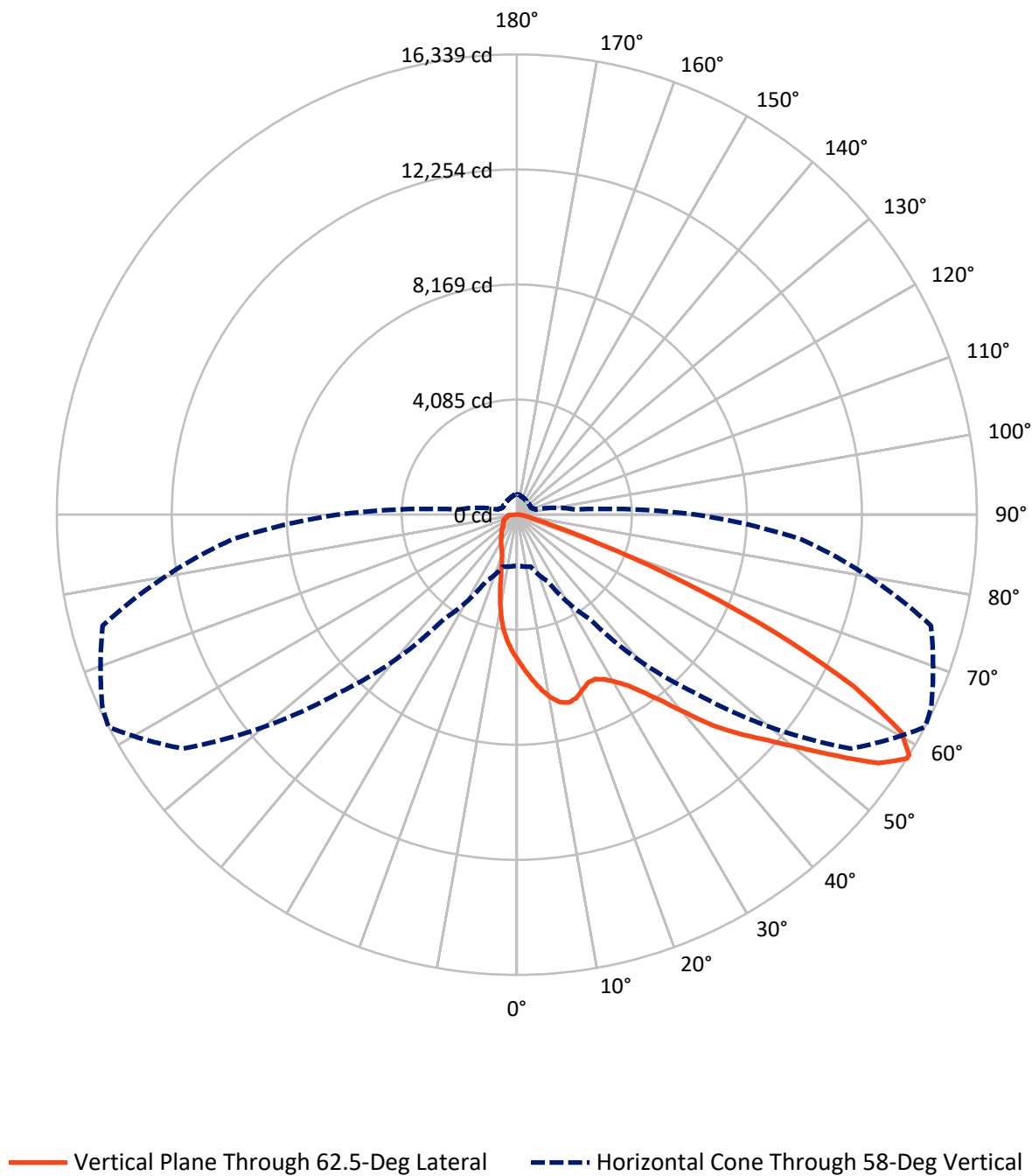


Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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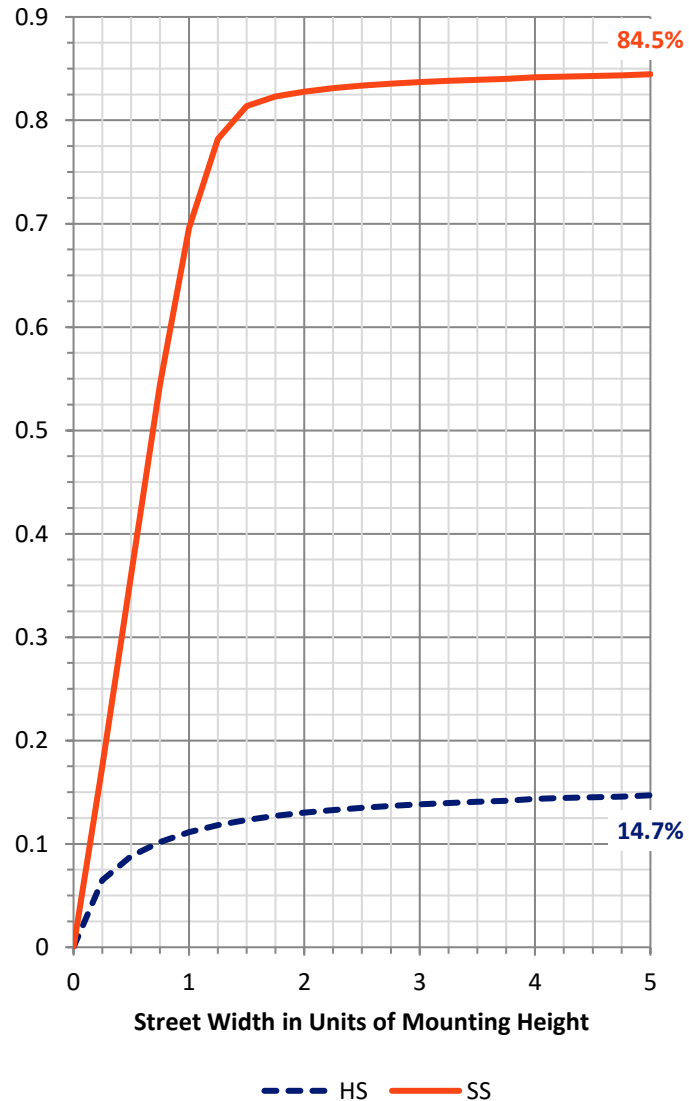
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2965.9	0.0	2965.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	16482.2	0.0	16482.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	19448.2	0.0	19448.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.0	2.4
10°-20°	1181.0	6.1
20°-30°	1909.1	9.8
30°-40°	3030.7	15.6
40°-50°	4434.6	22.8
50°-60°	4638.2	23.8
60°-70°	2740.3	14.1
70°-80°	771.9	4.0
80°-90°	280.3	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°	19448.2	100.0
0°-180°	19448.2	100.0

Coefficient of Utilization



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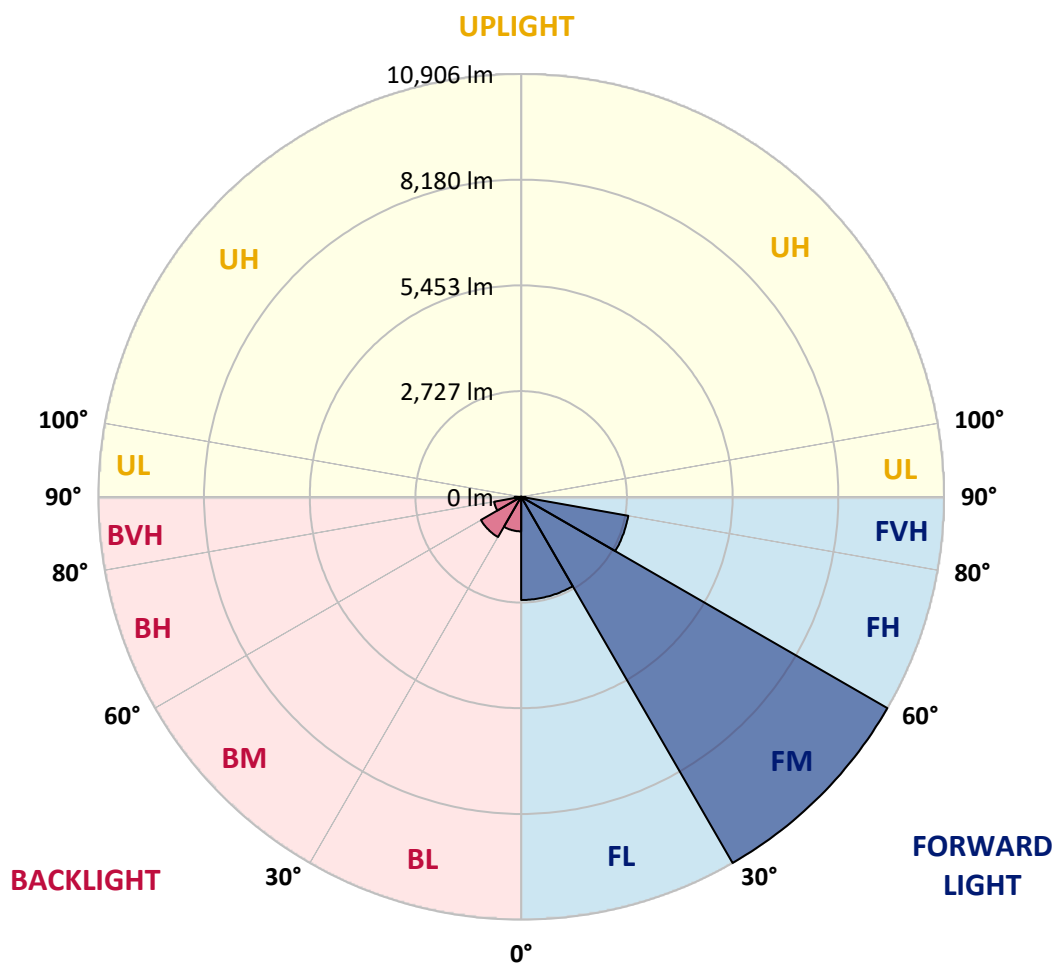
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2660.7	13.7			
FM	(30°-60°)	10906.4	56.1			
FH	(60°-80°)	2804.5	14.4			G2/5000
FVH	(80°-90°)	110.6	0.6			G2/225
BL	(0°-30°)	891.4	4.6	B2/1000		
BM	(30°-60°)	1197.1	6.2	B2/2500		
BH	(60°-80°)	707.7	3.6	B2/1000		G2/1000
BVH	(80°-90°)	169.7	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-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°	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0
2.5°	5903.2	5855.6	5825.3	5798.8	5764.0	5689.7	5590.0	5526.9	5494.7	5385.8	5256.7
5°	6482.1	6439.8	6408.7	6373.0	6310.7	6194.5	6033.3	5905.0	5841.9	5623.9	5365.6
7.5°	6346.5	6364.0	6417.9	6512.2	6592.8	6577.3	6433.5	6270.5	6187.2	5883.9	5492.0
10°	5529.6	5559.7	5653.2	5873.9	6231.0	6597.4	6709.2	6596.5	6512.2	6141.4	5622.1
12.5°	5365.6	5364.7	5372.1	5430.6	5643.1	6158.7	6718.3	6831.9	6781.5	6386.7	5754.9
15°	5432.5	5434.3	5428.9	5453.5	5519.4	5723.8	6438.0	6922.4	6958.1	6634.0	5892.3
17.5°	5608.4	5603.8	5582.7	5582.7	5606.5	5686.2	6108.3	6838.2	7003.1	6852.8	6013.1
20°	5903.2	5882.2	5826.2	5775.0	5749.3	5792.4	5972.7	6644.0	6925.3	7044.3	6112.9
22.5°	6260.3	6243.9	6153.3	6043.3	5954.5	5953.5	6042.5	6474.7	6790.6	7224.7	6197.1
25°	6721.9	6695.4	6560.8	6384.9	6229.2	6169.8	6194.5	6466.4	6717.4	7420.7	6272.2
27.5°	7264.1	7215.6	7056.2	6802.5	6573.6	6453.6	6417.9	6615.7	6784.2	7663.3	6376.7
30°	7921.7	7865.8	7661.6	7331.0	7007.7	6810.7	6734.7	6880.4	7005.8	7959.2	6544.3
32.5°	8669.8	8589.2	8353.0	7988.5	7563.6	7263.2	7139.5	7230.2	7329.9	8315.4	6754.0
35°	9703.8	9607.6	9266.1	8763.2	8283.4	7870.4	7672.5	7738.5	7835.5	8846.6	7057.2
37.5°	10408.9	10365.9	10138.8	9666.2	9144.2	8668.9	8363.0	8401.5	8456.4	9510.6	7445.5
40°	10402.6	10419.9	10424.5	10429.2	10073.7	9618.6	9289.9	9249.6	9238.5	10239.6	7886.9
42.5°	9881.4	9952.9	10183.6	10651.5	10867.8	10658.9	10357.7	10241.3	10183.6	11098.5	8354.8
45°	9083.9	9122.3	9554.5	10468.4	11274.4	11689.2	11461.2	11094.8	10990.5	11888.0	8743.2
47.5°	8672.6	8714.7	8986.7	9983.1	11269.8	12521.6	12653.6	11955.7	11768.9	12574.7	9078.3
50°	7693.6	7781.6	8124.0	9138.8	10858.6	12904.5	13900.0	12981.4	12595.0	13243.4	9414.5
52.5°	5895.8	6031.4	6415.1	7750.5	9815.6	12714.9	14897.3	14225.0	13679.3	13935.7	9702.9
55°	3719.0	3819.8	4142.1	5473.7	7852.0	11728.6	15275.4	15570.3	15085.0	14591.3	9952.9
57.5°	2022.1	2066.9	2187.8	3022.1	5107.5	9548.0	14724.3	16336.0	16134.6	15148.1	10141.6
58°	1809.7	1839.8	1914.9	2619.2	4529.6	8951.9	14479.7	16338.7	16238.0	15229.6	10156.2
60°	1342.6	1327.0	1260.1	1494.5	2521.1	6184.4	13001.6	15684.8	15980.6	15329.5	10084.7
62.5°	1179.6	1142.0	1005.5	990.0	1226.2	2849.1	9948.3	13435.6	14134.5	14759.9	9650.7
65°	1108.1	1067.8	892.0	835.2	884.7	1205.2	5860.2	10076.6	10952.9	13032.7	8540.7
67.5°	1055.0	1002.8	819.7	741.8	745.4	796.7	2349.0	6346.5	7332.8	9895.2	6643.2
70°	1003.8	947.0	758.3	668.5	647.5	630.1	934.0	3176.9	4071.6	6250.2	4235.6
72.5°	948.8	892.8	704.2	610.9	569.7	511.9	609.8	1299.5	1815.2	2957.1	1921.4
75°	869.0	818.7	650.2	559.5	501.0	424.0	460.6	678.6	814.1	1177.7	925.9
77.5°	771.2	729.9	589.8	517.5	444.1	344.3	354.4	470.7	522.0	674.0	550.3
80°	554.1	568.7	524.8	465.2	395.6	279.2	271.9	343.4	370.9	433.2	358.1
82.5°	389.2	397.4	434.1	380.0	326.9	219.8	200.6	241.8	258.3	284.8	193.3
85°	268.3	259.2	297.6	264.6	236.3	146.5	137.3	163.9	174.0	176.8	99.9
87.5°	161.1	161.1	172.2	141.9	127.3	76.1	74.2	93.4	99.9	95.3	54.9
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°	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0	5166.0
2.5°	5179.8	5114.8	4976.4	4865.7	4725.5	4579.9	4498.4	4411.4	4351.9	4308.8	4377.5
5°	5219.1	5086.3	4800.7	4529.6	4230.1	3918.7	3682.4	3462.7	3309.7	3214.4	3304.2
7.5°	5281.4	5077.2	4622.0	4158.6	3621.1	3102.8	2639.3	2349.0	2179.6	2096.2	2148.5
10°	5352.8	5062.5	4412.3	3655.9	2886.6	2233.6	1887.5	1770.2	1731.8	1716.3	1723.6
12.5°	5412.3	5031.4	4155.0	3047.8	2167.7	1763.8	1664.0	1661.3	1669.5	1671.3	1674.1
15°	5454.4	4985.6	3773.0	2414.1	1733.6	1607.2	1601.7	1618.2	1633.8	1640.2	1643.8
17.5°	5482.8	4891.3	3341.7	1908.5	1553.2	1531.2	1544.1	1565.1	1581.5	1586.1	1589.8
20°	5480.1	4753.0	2827.9	1591.7	1455.3	1455.3	1477.1	1493.7	1494.5	1489.1	1491.8
22.5°	5451.7	4563.4	2329.7	1423.1	1368.2	1383.8	1405.7	1390.3	1326.1	1283.9	1286.7
25°	5404.1	4337.1	1903.1	1316.0	1287.6	1315.1	1308.7	1191.5	1099.9	1058.6	1058.6
27.5°	5362.0	4069.8	1575.2	1222.6	1207.0	1240.8	1127.3	1021.1	982.7	963.4	957.0
30°	5331.8	3781.4	1356.4	1132.8	1131.1	1106.2	978.1	948.8	942.4	926.7	921.3
32.5°	5339.1	3489.2	1216.2	1054.2	1060.5	947.0	906.7	913.1	907.5	891.1	883.7
35°	5399.5	3211.6	1124.6	982.7	963.4	855.4	864.5	876.4	874.6	851.6	844.3
37.5°	5507.6	2948.9	1064.1	923.1	840.7	809.6	824.3	842.5	837.9	822.4	816.9
40°	5621.2	2701.6	1014.7	876.4	768.3	778.5	791.2	801.3	805.9	810.4	806.8
42.5°	5732.0	2443.4	954.3	828.8	738.1	749.1	754.7	764.7	789.4	806.8	805.9
45°	5798.0	2200.7	892.0	761.0	714.3	720.8	717.1	737.2	767.4	795.9	796.7
47.5°	5871.1	2012.0	842.5	698.7	691.4	696.0	685.0	705.2	732.6	767.4	771.2
50°	5960.0	1899.4	803.2	649.3	660.3	660.3	657.5	675.9	714.3	754.7	762.0
52.5°	6060.7	1877.4	770.2	613.6	629.2	628.2	631.0	658.5	700.6	740.0	746.4
55°	6183.4	1936.9	734.4	587.0	599.0	602.6	611.8	642.9	678.6	723.6	726.2
57.5°	6326.3	2057.8	706.1	566.0	571.4	583.3	597.9	626.4	664.9	714.3	717.1
58°	6350.1	2083.5	701.6	564.1	566.0	579.7	596.2	623.7	662.1	716.2	718.9
60°	6351.0	2168.6	691.4	555.9	544.8	567.8	586.0	613.6	657.5	722.5	729.0
62.5°	6125.7	2167.7	684.1	544.0	523.0	551.3	572.4	604.4	653.0	738.1	750.9
65°	5394.0	1969.8	649.3	525.6	505.6	536.7	560.5	597.9	665.8	805.9	814.1
67.5°	4219.0	1614.6	584.3	500.0	482.6	522.0	553.2	597.1	679.5	821.5	827.0
70°	2789.5	1208.0	512.9	470.7	458.8	504.6	556.7	628.2	664.0	788.6	773.9
72.5°	1447.9	848.1	455.2	434.1	431.3	489.1	609.8	624.5	648.4	741.8	723.6
75°	760.1	588.9	404.8	393.8	398.4	485.3	719.8	608.1	628.2	709.7	744.5
77.5°	465.2	475.3	361.7	357.2	366.3	474.4	718.9	587.0	599.0	653.0	691.4
80°	311.4	385.5	328.8	329.6	336.1	434.1	645.6	554.1	563.2	617.2	656.6
82.5°	196.8	228.1	298.5	314.1	305.9	358.1	548.6	504.6	517.5	706.1	746.4
85°	99.9	142.9	259.2	302.2	275.7	251.0	445.1	442.3	448.7	509.1	532.1
87.5°	45.8	78.7	202.3	263.8	207.9	156.6	323.3	327.9	353.5	361.7	361.7
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)