

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: P319301

Luminaire Tested: **GAN-SA7D-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44961 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

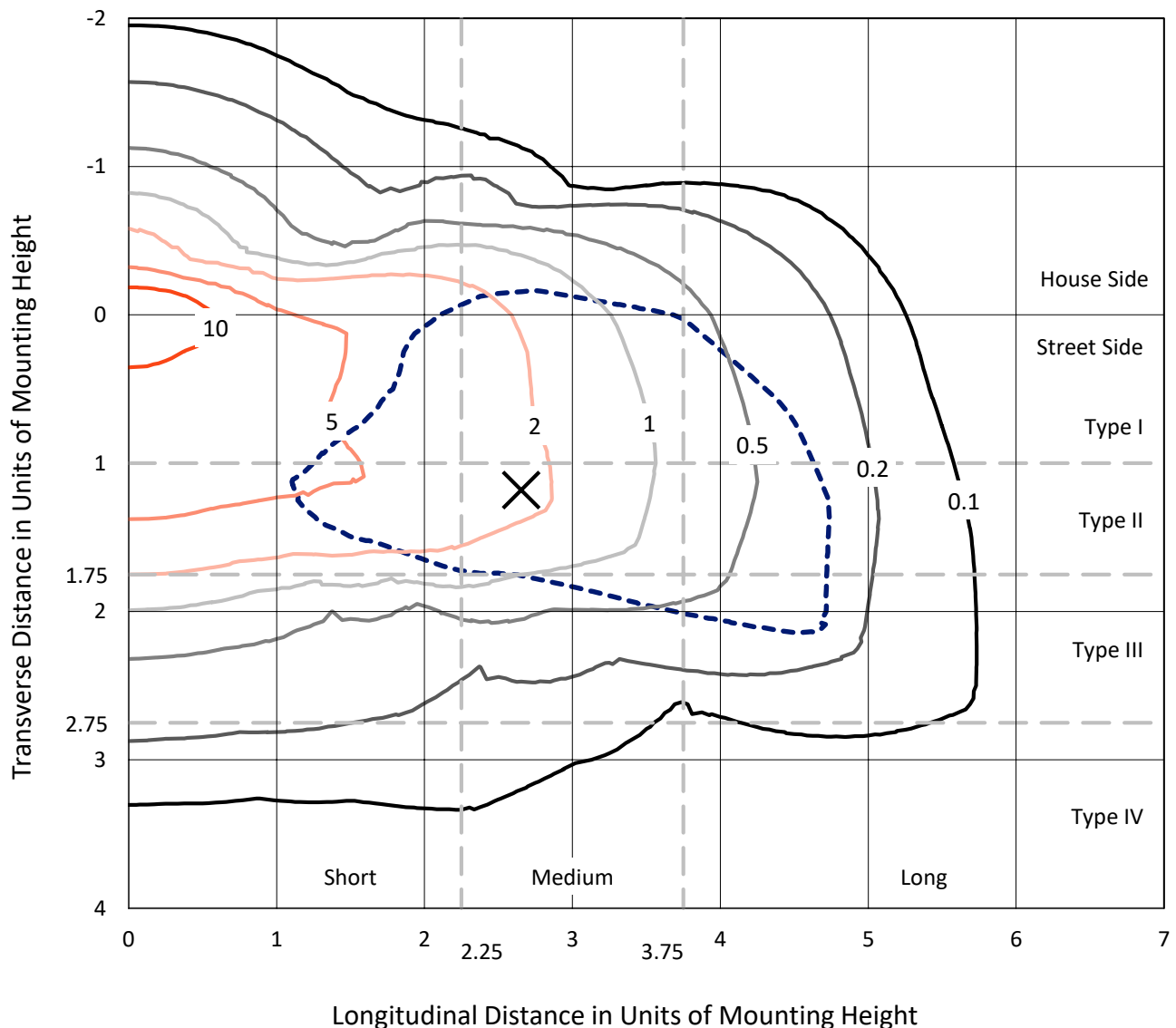
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

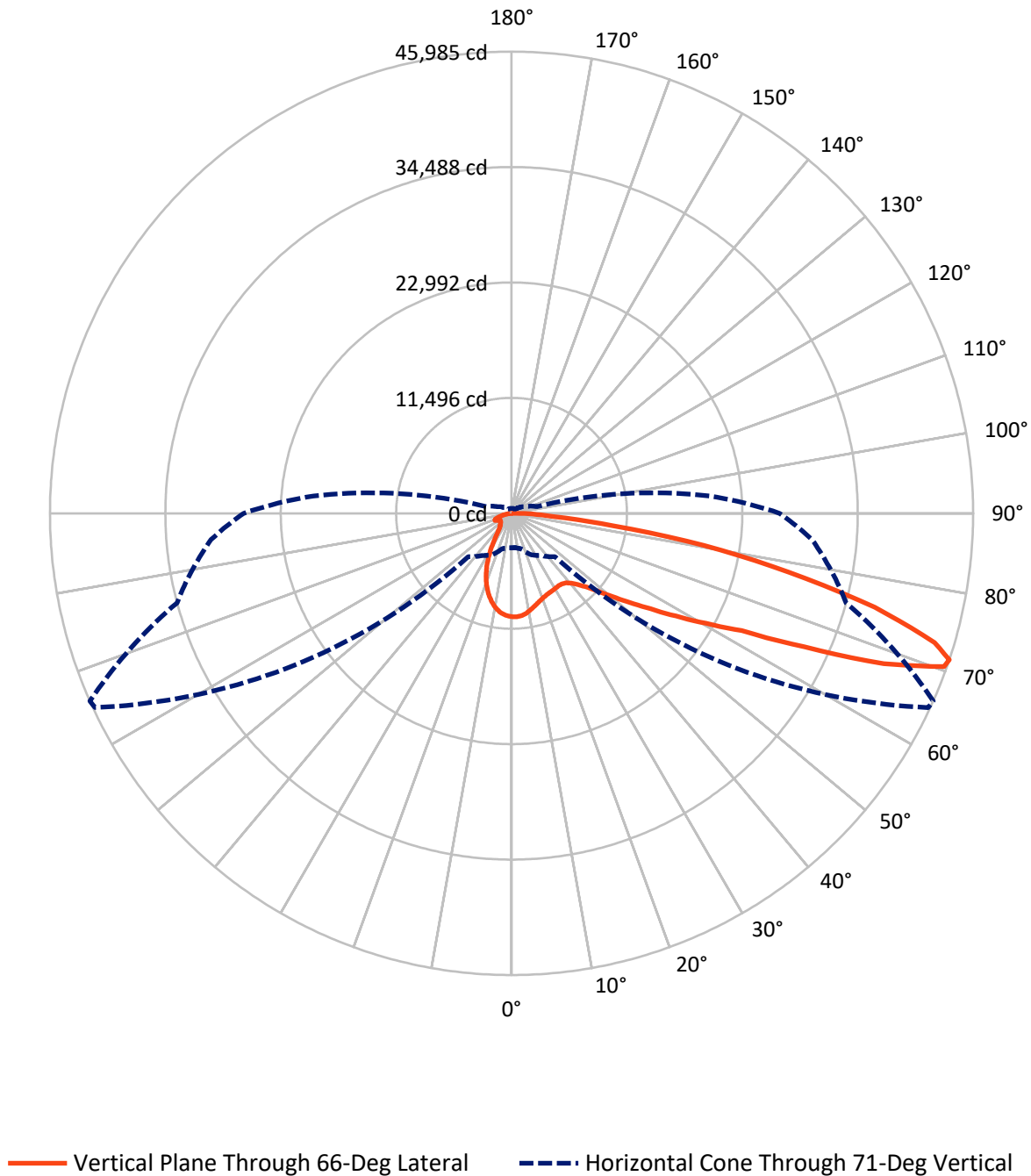
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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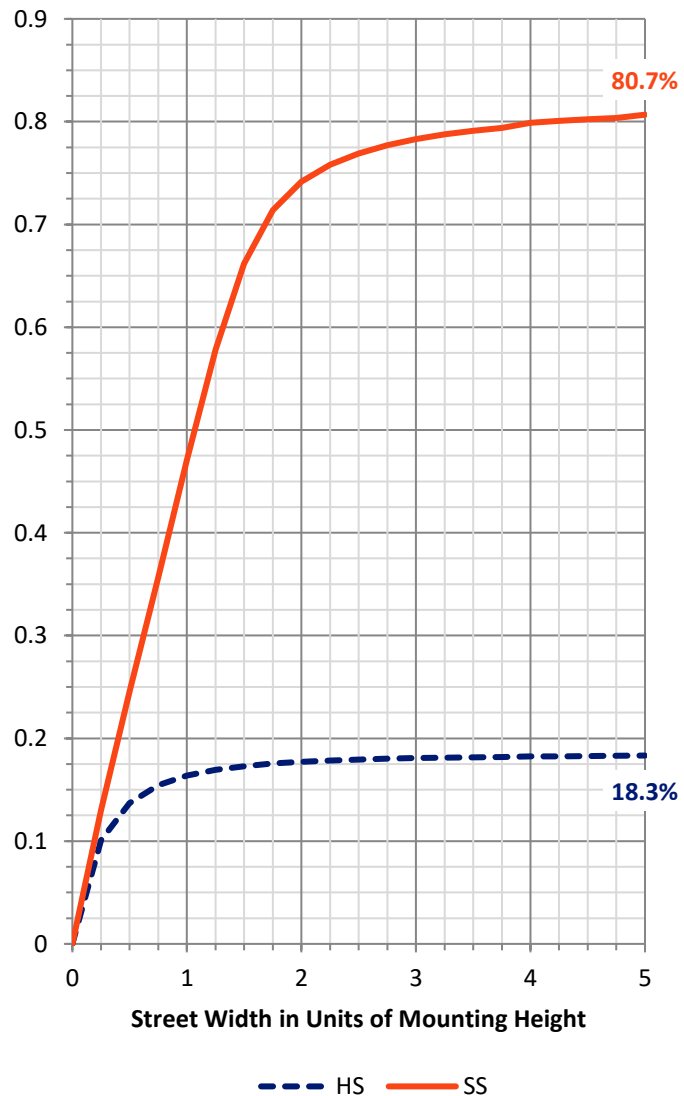
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8332.5	0.0	8332.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	36628.5	0.0	36628.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	44961.0	0.0	44961.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	906.6	2.0
10°-20°	2174.5	4.8
20°-30°	2920.9	6.5
30°-40°	3842.3	8.5
40°-50°	5589.6	12.4
50°-60°	8731.5	19.4
60°-70°	10937.7	24.3
70°-80°	8343.0	18.6
80°-90°	1515.0	3.4
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°	44961.0	100.0
0°-180°	44961.0	100.0

Coefficient of Utilization



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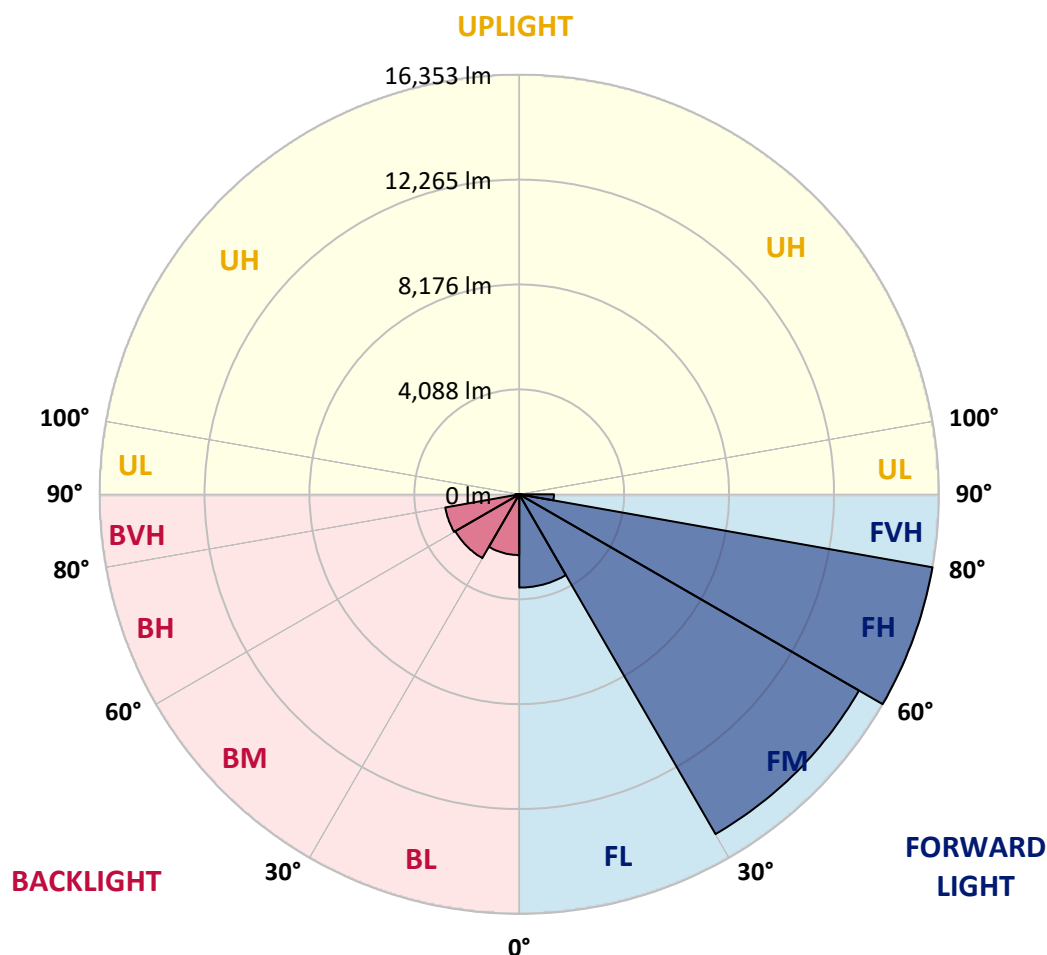
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3635.7	8.1			
FM	(30°-60°)	15289.0	34.0			
FH	(60°-80°)	16352.8	36.4			G5
FVH	(80°-90°)	1351.0	3.0			G5
BL	(0°-30°)	2366.2	5.3	B3/2500		
BM	(30°-60°)	2874.4	6.4	B3/5000		
BH	(60°-80°)	2927.8	6.5	B4/5000		G4/5000
BVH	(80°-90°)	164.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10299.7	10299.7	10299.7	10299.7	10299.7	10299.7	10299.7	10299.7	10299.7	10299.7	10299.7
2.5°	10108.8	10093.2	10139.8	10187.9	10206.6	10237.6	10284.2	10310.6	10309.0	10313.7	10298.1
5°	9438.2	9418.0	9511.1	9587.2	9733.1	9897.6	10097.9	10240.7	10243.8	10324.5	10346.3
7.5°	8803.3	8789.3	8896.4	9019.0	9188.2	9439.7	9764.1	10071.5	10090.1	10309.0	10385.1
10°	8294.1	8291.0	8395.0	8528.5	8725.6	9006.6	9379.2	9829.3	9857.3	10234.5	10391.3
12.5°	7896.7	7902.9	7992.9	8145.1	8353.1	8646.5	9050.1	9557.7	9602.7	10116.5	10355.6
15°	7603.3	7628.1	7701.1	7854.8	8059.7	8357.7	8772.2	9306.2	9374.5	9984.6	10335.4
17.5°	7435.6	7463.6	7514.8	7642.1	7834.6	8121.8	8514.5	9099.7	9161.8	9883.7	10337.0
20°	7386.0	7409.3	7438.8	7516.4	7679.4	7940.2	8311.2	8913.5	8980.2	9802.9	10352.5
22.5°	7483.8	7500.8	7504.0	7497.7	7597.1	7809.8	8163.7	8776.9	8848.3	9750.2	10363.3
25°	7693.3	7716.6	7699.5	7642.1	7609.5	7739.9	8087.6	8686.8	8758.2	9711.4	10341.6
27.5°	8008.5	8011.6	7997.6	7923.1	7769.4	7747.7	8064.3	8634.0	8702.3	9666.3	10296.6
30°	8436.9	8457.1	8432.2	8331.3	8079.9	7871.9	8092.3	8582.8	8644.9	9608.9	10223.6
32.5°	8938.3	8988.0	8986.4	8880.9	8520.7	8149.7	8207.2	8551.8	8599.9	9548.4	10135.1
35°	9458.3	9526.6	9653.9	9608.9	9163.4	8589.0	8427.6	8601.4	8634.0	9540.6	10073.1
37.5°	9998.5	10066.8	10329.2	10450.3	9928.7	9217.7	8775.3	8776.9	8792.4	9635.3	10068.4
40°	10563.6	10636.5	11030.8	11346.0	10920.6	10014.1	9335.7	9143.2	9126.1	9868.1	10160.0
42.5°	11355.3	11420.5	11893.9	12296.0	12021.2	11033.9	10110.3	9708.3	9672.6	10324.5	10453.4
45°	12356.5	12412.4	12915.4	13345.4	13204.1	12198.2	11083.6	10486.0	10479.8	11085.2	11047.9
47.5°	13547.2	13590.6	14042.4	14458.4	14509.6	13537.9	12306.9	11685.9	11585.0	12128.3	11968.4
50°	14787.5	14835.6	15143.0	15590.0	15970.3	15330.8	13880.9	13156.0	13020.9	13505.3	13272.4
52.5°	15608.7	15672.3	15939.3	16505.9	17612.7	17296.0	15742.2	14938.0	14733.1	15174.0	14995.5
55°	15242.3	15385.1	15793.4	16701.5	18926.0	20298.2	18038.0	17016.6	16785.3	17151.7	17046.1
57.5°	13576.7	13772.3	14329.5	15731.3	19110.7	22943.4	21509.1	19464.6	19301.6	19196.1	19244.2
60°	10532.5	10720.4	11411.2	13238.3	17823.8	24874.5	26732.6	22482.4	22246.4	21248.3	21291.7
62.5°	7454.3	7359.6	7833.0	9169.6	14483.2	25101.1	32676.5	26518.4	25742.3	23415.3	23224.4
65°	5684.6	5662.9	5875.6	6300.9	8772.2	22389.2	36217.4	33302.1	32089.7	25964.2	25514.1
67.5°	4671.0	4632.1	4841.7	5461.1	5648.9	14444.4	36295.0	41172.4	39981.8	29137.2	28162.3
70°	3840.5	3797.0	3992.6	4792.0	5220.5	7325.4	30546.7	45781.3	45717.6	33154.6	30161.7
71°	3443.1	3412.0	3646.4	4534.3	5128.9	6105.3	26374.0	45793.7	45984.6	34514.5	30043.8
72.5°	2803.5	2814.4	3062.7	4036.1	5060.6	5391.2	19383.9	43659.2	44062.8	35810.6	28971.1
75°	1862.8	1872.1	2198.1	3104.7	4906.9	5274.8	10653.6	36634.9	37376.9	35034.5	26436.1
77.5°	1251.2	1248.1	1470.1	2129.8	4275.1	5274.8	6246.6	27400.1	28215.1	27876.7	20380.5
80°	861.5	855.3	1012.1	1470.1	3236.6	5338.5	4829.3	19202.3	19449.1	15054.5	8283.2
82.5°	527.8	532.4	661.3	1038.5	2202.8	4804.5	4559.2	10470.5	10201.9	4222.3	2069.3
85°	302.7	301.2	422.2	703.2	1414.2	4054.7	4445.9	4506.4	4133.8	1271.4	748.2
87.5°	108.7	116.4	226.6	389.6	810.3	2823.7	3772.2	2344.0	2112.7	574.4	338.4
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°	10299.7	10299.7	10299.7	10299.7	10299.7	10299.7	10299.7	10299.7	10299.7	10299.7	10299.7
2.5°	10287.3	10296.6	10285.7	10223.6	10170.9	10085.5	10037.4	9970.6	9950.4	9941.1	9965.9
5°	10326.1	10329.2	10237.6	10074.6	9891.4	9675.7	9520.4	9329.5	9239.5	9200.6	9225.5
7.5°	10361.8	10347.8	10147.6	9835.5	9497.1	9121.5	8787.7	8481.9	8303.4	8230.4	8236.7
10°	10366.4	10307.5	9986.1	9503.4	8978.7	8427.6	7915.3	7443.4	7145.4	6951.3	7010.3
12.5°	10318.3	10219.0	9748.6	9073.4	8345.3	7594.0	6901.6	6193.8	5768.4	5571.3	5577.5
15°	10281.1	10101.0	9456.8	8567.3	7589.3	6594.3	5648.9	4816.9	4363.6	4161.8	4067.1
17.5°	10250.0	9973.7	9118.4	7997.6	6696.7	5434.7	4298.4	3556.4	3308.0	3249.0	3224.2
20°	10206.6	9838.7	8741.2	7337.9	5680.0	4137.0	3138.8	2772.5	2774.0	2842.3	2851.6
22.5°	10146.0	9685.0	8339.1	6597.4	4588.7	3013.1	2460.4	2354.9	2462.0	2592.4	2615.7
25°	10056.0	9503.4	7892.0	5779.3	3498.9	2316.1	2101.9	2097.2	2227.6	2364.2	2384.4
27.5°	9928.7	9265.8	7395.3	4900.7	2578.4	1968.4	1883.0	1915.6	2011.8	2111.2	2118.9
30°	9757.9	8989.5	6847.3	3974.0	2021.1	1752.6	1743.3	1772.8	1831.7	1901.6	1907.8
32.5°	9570.1	8708.6	6262.1	3076.7	1730.8	1636.2	1645.5	1659.4	1687.4	1715.3	1721.5
35°	9399.3	8421.4	5662.9	2337.8	1592.7	1560.1	1553.9	1550.8	1553.9	1544.6	1546.1
37.5°	9289.1	8183.9	5038.9	1861.2	1513.5	1493.3	1474.7	1451.4	1425.0	1409.5	1412.6
40°	9248.8	8006.9	4407.1	1608.2	1448.3	1434.4	1398.6	1349.0	1317.9	1308.6	1308.6
42.5°	9357.4	7915.3	3797.0	1480.9	1394.0	1370.7	1311.7	1254.3	1231.0	1229.4	1227.9
45°	9689.6	7952.6	3216.4	1411.1	1344.3	1299.3	1221.7	1173.6	1158.0	1161.1	1159.6
47.5°	10285.7	8187.0	2719.7	1364.5	1294.6	1235.7	1148.7	1109.9	1091.3	1091.3	1092.8
50°	11299.4	8734.9	2323.8	1325.7	1252.7	1176.7	1095.9	1047.8	1023.0	1021.4	1021.4
52.5°	12775.7	9716.0	2077.0	1293.1	1206.2	1123.9	1043.2	982.6	953.1	946.9	943.8
55°	14626.0	11122.4	2008.7	1271.4	1144.1	1066.4	979.5	919.0	886.4	872.4	870.9
57.5°	16695.3	12833.1	2143.8	1245.0	1080.4	998.1	909.7	852.2	818.1	801.0	799.4
60°	18789.4	14700.5	2694.8	1207.7	1027.6	923.6	838.3	785.5	751.3	732.7	729.6
62.5°	20886.6	16668.9	3820.3	1204.6	990.4	852.2	765.3	720.3	687.7	667.5	662.8
65°	23252.3	18823.5	5099.4	1286.9	978.0	787.0	690.8	655.1	627.1	608.5	607.0
67.5°	25968.9	21256.0	4976.8	1456.1	1019.9	728.0	620.9	593.0	572.8	557.3	555.7
70°	27243.4	20875.7	3093.8	1575.6	1078.9	670.6	554.2	534.0	518.5	507.6	503.0
71°	26709.4	19821.7	2593.9	1561.6	1072.7	645.8	527.8	512.3	496.7	487.4	482.8
72.5°	25253.3	18076.9	2163.9	1453.0	1002.8	600.8	493.6	478.1	464.1	453.3	450.2
75°	22660.9	16144.2	1732.4	1161.1	799.4	507.6	433.1	416.0	405.2	398.9	392.7
77.5°	16658.0	11521.4	1339.7	917.4	588.3	414.5	369.5	357.0	346.2	336.9	332.2
80°	6381.6	4462.9	901.9	684.6	431.5	327.5	298.0	291.8	281.0	274.8	274.8
82.5°	1718.4	1333.4	481.2	414.5	288.7	239.1	228.2	225.1	215.8	203.4	204.9
85°	695.4	588.3	270.1	228.2	177.0	141.3	153.7	155.2	144.4	128.8	130.4
87.5°	305.8	249.9	150.6	100.9	77.6	54.3	69.9	69.9	63.6	52.8	48.1
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)