

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: P320142

Luminaire Tested: **GAN-SA8D-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43437 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

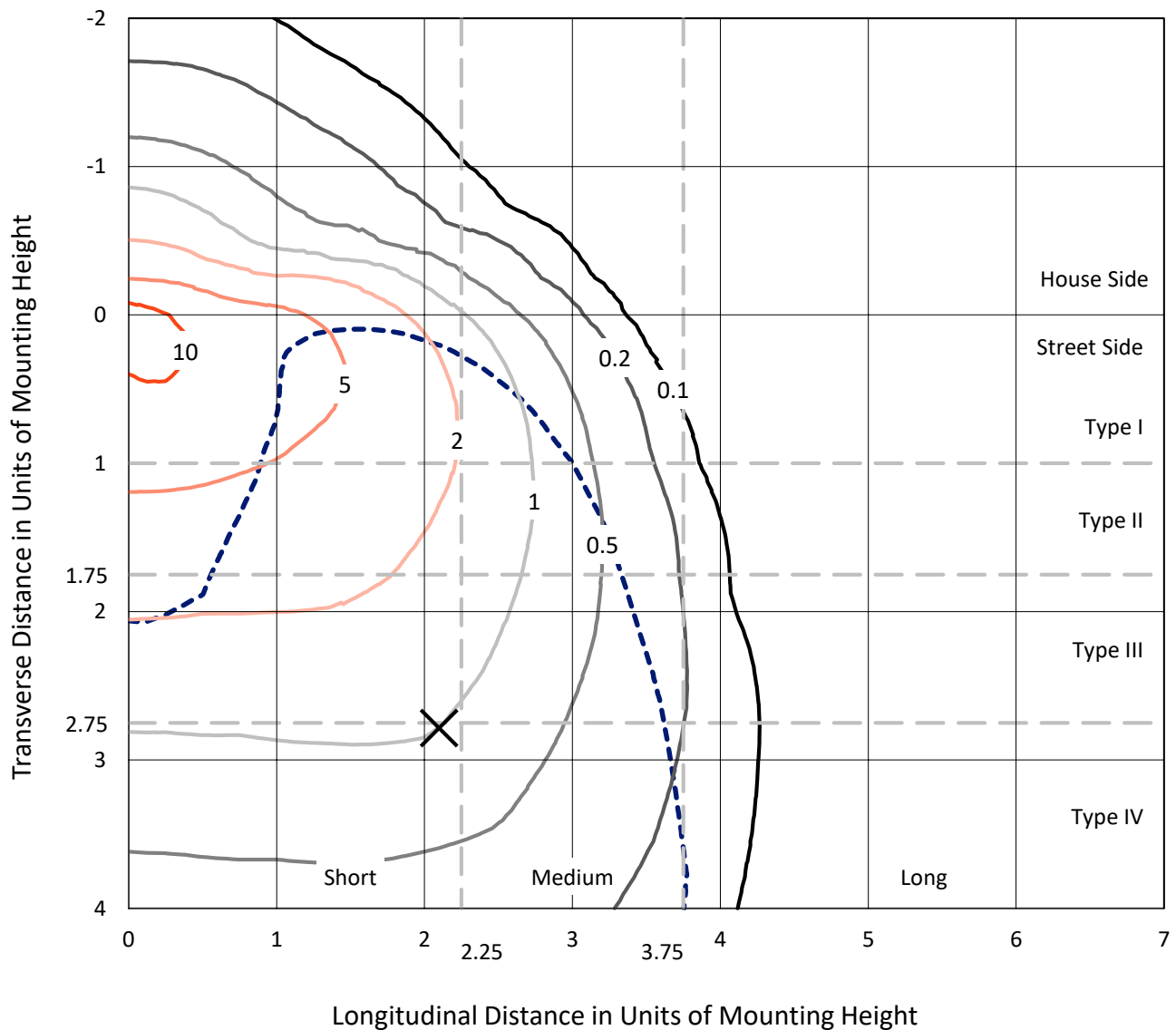
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

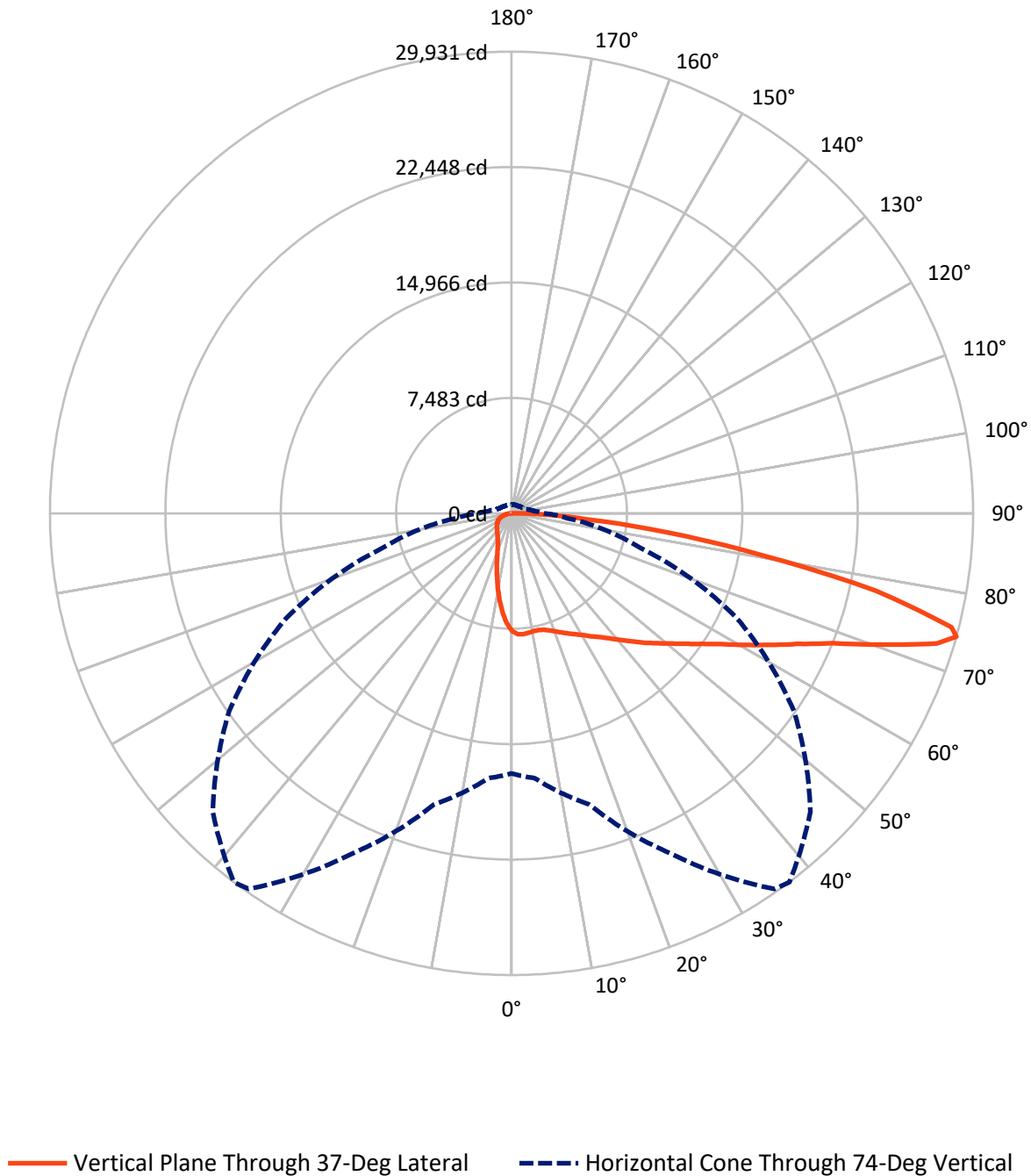
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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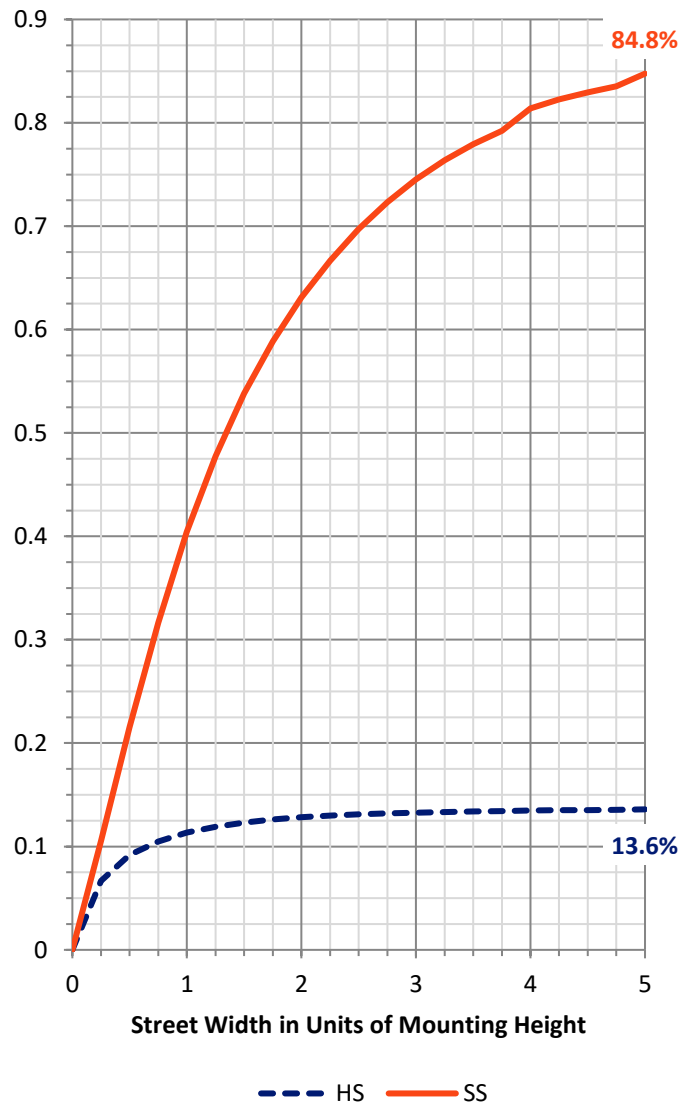
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5976.6	0.0	5976.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	37460.4	0.0	37460.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	43437.0	0.0	43437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.0	1.6
10°-20°	1727.6	4.0
20°-30°	2661.8	6.1
30°-40°	3870.7	8.9
40°-50°	5697.0	13.1
50°-60°	8000.4	18.4
60°-70°	10126.1	23.3
70°-80°	8916.4	20.5
80°-90°	1763.0	4.1
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°	43437.0	100.0
0°-180°	43437.0	100.0

Coefficient of Utilization



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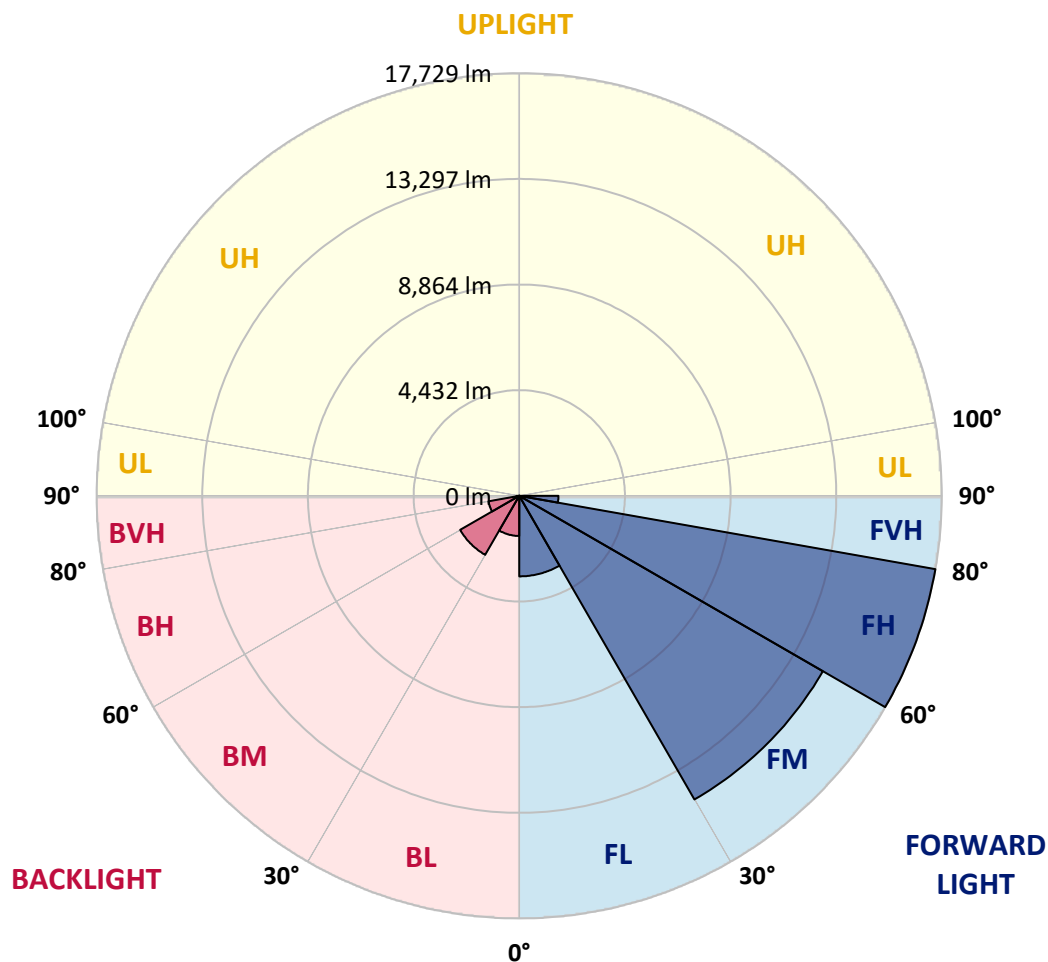
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3379.9	7.8			
FM	(30°-60°)	14708.1	33.9			
FH	(60°-80°)	17728.8	40.8			G5
FVH	(80°-90°)	1643.6	3.8			G5
BL	(0°-30°)	1683.5	3.9	B3/2500		
BM	(30°-60°)	2860.0	6.6	B3/5000		
BH	(60°-80°)	1313.7	3.0	B3/2500		G3/2500
BVH	(80°-90°)	119.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	7653.4	7653.4	7653.4	7653.4	7653.4	7653.4	7653.4	7653.4	7653.4	7653.4	7653.4
2.5°	7915.1	7916.6	7915.1	7902.8	7873.8	7849.3	7829.4	7800.3	7736.1	7687.1	7613.6
5°	7990.0	7980.9	7974.7	7951.8	7905.9	7878.4	7840.1	7785.0	7679.4	7581.5	7462.2
7.5°	7954.9	7944.1	7930.4	7902.8	7850.8	7827.9	7774.3	7702.4	7575.4	7446.9	7275.5
10°	7846.2	7843.2	7837.0	7830.9	7786.5	7768.2	7719.2	7642.7	7517.3	7361.2	7160.7
12.5°	7725.3	7733.0	7757.5	7789.6	7769.7	7760.5	7729.9	7677.9	7549.4	7381.1	7139.3
15°	7648.8	7670.3	7736.1	7820.2	7837.0	7834.0	7826.3	7792.7	7656.5	7469.8	7188.3
17.5°	7622.8	7658.0	7783.5	7922.7	7971.7	7982.4	7985.5	7927.3	7775.8	7578.5	7238.8
20°	7670.3	7714.6	7898.2	8089.5	8167.5	8173.7	8159.9	8058.9	7889.1	7671.8	7266.3
22.5°	7814.1	7853.9	8083.4	8299.1	8387.9	8397.0	8355.7	8202.7	8008.4	7782.0	7304.6
25°	8091.0	8140.0	8369.5	8585.2	8631.1	8632.7	8573.0	8383.3	8164.5	7936.5	7387.2
27.5°	8452.1	8501.1	8707.7	8918.8	8894.3	8880.6	8799.5	8609.7	8368.0	8149.2	7534.1
30°	8854.5	8908.1	9103.9	9253.9	9195.7	9168.2	9102.4	8857.6	8651.0	8439.9	7759.0
32.5°	9270.7	9319.7	9491.1	9593.6	9520.1	9507.9	9408.4	9185.0	9019.8	8883.6	8123.2
35°	9697.6	9732.8	9901.1	9959.3	9861.3	9858.3	9830.7	9625.7	9521.7	9585.9	8652.6
37.5°	10133.7	10142.9	10286.7	10289.7	10260.7	10272.9	10302.0	10173.5	10202.5	10403.0	9341.1
40°	10522.3	10546.8	10650.8	10683.0	10733.5	10776.3	10921.7	10837.5	11062.4	11417.4	10197.9
42.5°	10810.0	10857.4	11024.2	11106.8	11270.5	11337.8	11542.9	11620.9	12073.8	12606.3	11217.0
45°	11053.3	11126.7	11394.5	11564.3	11841.2	11959.1	12252.8	12514.5	13216.8	13896.1	12289.6
47.5°	11316.4	11409.8	11744.8	12069.2	12445.6	12578.7	13112.7	13504.4	14436.2	15193.6	13300.9
50°	11703.5	11775.5	12102.9	12612.4	13082.1	13253.5	13992.5	14554.1	15675.6	16429.9	14177.7
52.5°	12243.7	12216.1	12493.1	13207.6	13838.0	14049.1	14932.0	15671.0	16931.8	17548.4	14918.2
55°	12786.8	12740.9	12935.2	13830.3	14719.3	14941.2	15966.3	16792.6	18126.8	18555.2	15485.9
57.5°	13391.2	13304.0	13467.7	14532.6	15723.0	15987.7	17124.6	17984.5	19301.9	19369.2	15847.0
60°	14013.9	13896.1	14079.7	15403.3	16997.6	17309.7	18480.2	19147.3	20409.7	20021.0	15963.3
62.5°	14558.7	14476.0	14759.1	16374.9	18434.3	18777.1	19811.4	20383.6	21502.1	20291.8	15544.0
65°	15034.5	15048.3	15537.9	17467.3	20036.3	20402.0	21338.4	21907.6	22362.0	20131.2	14563.2
67.5°	15602.2	15680.2	16515.6	18905.6	22053.0	22453.8	23560.1	23569.3	22842.5	19188.7	12632.3
70°	16429.9	16590.6	17860.6	20900.8	24920.3	25471.1	26324.9	24545.4	22167.7	16633.4	9939.4
72.5°	17164.4	17464.3	19291.2	23183.7	28415.0	28832.7	27942.2	23982.4	19347.8	12465.5	6192.2
74°	16866.0	17237.8	19551.3	24308.3	29730.9	29931.3	27396.0	22339.1	16131.6	8632.7	3598.7
75°	16223.4	16627.3	19171.8	24297.6	29564.1	29452.4	26077.1	20461.7	13285.6	5887.7	2394.6
77.5°	13092.8	13519.7	16154.5	20824.3	24241.0	24135.4	20031.7	13726.3	5818.9	1931.0	1216.4
80°	7612.1	7938.0	10028.1	13224.4	16345.8	16537.0	13173.9	6792.0	2289.0	1084.8	824.7
82.5°	3381.5	3606.4	4844.2	6750.7	9864.4	10110.7	6899.1	3559.0	1413.8	659.5	495.7
85°	2218.6	2385.4	2940.8	3214.7	4697.3	4865.6	3376.9	2771.0	933.3	362.6	364.2
87.5°	1595.9	1756.5	2184.9	1908.0	2155.9	2041.1	1837.6	2564.4	374.9	206.6	122.4
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°	7653.4	7653.4	7653.4	7653.4	7653.4	7653.4	7653.4	7653.4	7653.4	7653.4	7653.4
2.5°	7581.5	7557.0	7502.0	7397.9	7339.8	7290.8	7209.7	7162.3	7140.9	7139.3	7148.5
5°	7393.3	7336.7	7194.4	7020.0	6880.7	6753.7	6596.1	6501.3	6434.0	6394.2	6404.9
7.5°	7174.5	7085.8	6862.4	6583.9	6360.5	6114.2	5870.9	5725.5	5612.3	5528.2	5543.5
10°	7024.6	6902.2	6576.3	6175.4	5803.6	5445.5	5110.4	4910.0	4750.9	4628.5	4637.7
12.5°	6974.1	6808.8	6357.5	5821.9	5300.2	4810.6	4373.0	4065.4	3901.7	3762.5	3773.2
15°	6981.7	6759.9	6173.8	5503.7	4847.3	4230.7	3699.7	3340.2	3118.3	3021.9	3023.4
17.5°	6987.8	6703.3	5981.1	5162.5	4399.0	3689.0	3112.2	2748.0	2538.4	2449.6	2451.2
20°	6968.0	6611.5	5742.4	4770.8	3930.8	3191.7	2633.3	2324.2	2165.1	2096.2	2096.2
22.5°	6941.9	6502.8	5473.1	4377.5	3468.7	2760.3	2290.5	2054.9	1963.1	1917.2	1915.7
25°	6954.2	6421.7	5197.7	3973.6	3043.3	2416.0	2062.5	1906.5	1845.3	1816.2	1814.7
27.5°	7020.0	6383.5	4943.7	3571.2	2671.5	2157.4	1909.5	1799.4	1759.6	1741.2	1741.2
30°	7139.3	6383.5	4679.0	3228.5	2362.4	1966.1	1791.7	1716.7	1689.2	1677.0	1677.0
32.5°	7347.4	6418.7	4423.4	2888.8	2116.1	1816.2	1693.8	1643.3	1621.9	1615.8	1615.8
35°	7705.5	6538.0	4174.0	2567.5	1917.2	1693.8	1600.5	1571.4	1556.1	1554.6	1559.1
37.5°	8208.8	6781.3	3939.9	2330.3	1776.4	1594.3	1522.4	1499.5	1490.3	1497.9	1504.1
40°	8842.3	7111.8	3727.3	2116.1	1669.3	1514.8	1450.5	1435.2	1430.6	1441.3	1450.5
42.5°	9607.3	7558.6	3552.8	1961.6	1586.7	1447.5	1389.3	1370.9	1366.4	1378.6	1390.8
45°	10435.1	8039.0	3430.4	1846.8	1522.4	1397.0	1335.8	1315.9	1306.7	1312.8	1326.6
47.5°	11187.9	8493.4	3381.5	1765.7	1461.2	1354.1	1288.3	1263.8	1248.5	1245.5	1256.2
50°	11822.9	8831.6	3404.4	1716.7	1412.3	1306.7	1242.4	1214.9	1191.9	1178.2	1185.8
52.5°	12285.0	9044.3	3425.8	1695.3	1374.0	1254.7	1191.9	1165.9	1135.3	1112.4	1112.4
55°	12620.1	9093.2	3378.4	1678.5	1344.9	1198.0	1135.3	1110.8	1080.2	1054.2	1051.2
57.5°	12751.6	8955.5	3202.4	1654.0	1325.0	1144.5	1075.6	1057.3	1031.3	1000.7	999.1
60°	12574.1	8530.2	2862.8	1602.0	1299.0	1100.1	1016.0	1003.7	991.5	962.4	960.9
62.5°	11861.1	7596.8	2423.6	1496.4	1247.0	1052.7	960.9	967.0	968.5	948.6	945.6
65°	10568.2	6314.6	1995.2	1358.7	1169.0	996.1	904.3	933.3	950.2	947.1	942.5
67.5°	8689.3	4914.6	1690.7	1213.3	1066.5	918.0	843.1	876.7	890.5	901.2	898.2
70°	6449.3	3465.6	1398.5	1060.3	942.5	826.2	763.5	780.3	771.2	783.4	788.0
72.5°	3595.7	2079.4	1139.9	907.3	814.0	719.1	674.8	671.7	651.8	651.8	651.8
74°	2157.4	1525.5	1002.2	812.5	736.0	648.8	610.5	596.7	578.4	579.9	578.4
75°	1735.1	1311.3	919.6	749.7	680.9	607.4	569.2	550.8	537.1	537.1	535.5
77.5°	1095.5	996.1	740.6	596.7	544.7	500.3	474.3	449.8	449.8	448.3	446.8
80°	827.8	792.6	576.8	451.4	417.7	384.0	367.2	356.5	356.5	361.1	359.6
82.5°	567.7	596.7	405.5	315.2	298.4	273.9	270.8	272.4	267.8	261.6	260.1
85°	414.7	448.3	273.9	198.9	182.1	166.8	179.0	185.1	177.5	163.7	157.6
87.5°	159.1	293.8	146.9	82.6	76.5	65.8	76.5	79.6	85.7	67.3	68.9
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)