

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: P317902

Luminaire Tested: **GAN-SA8D-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46739 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

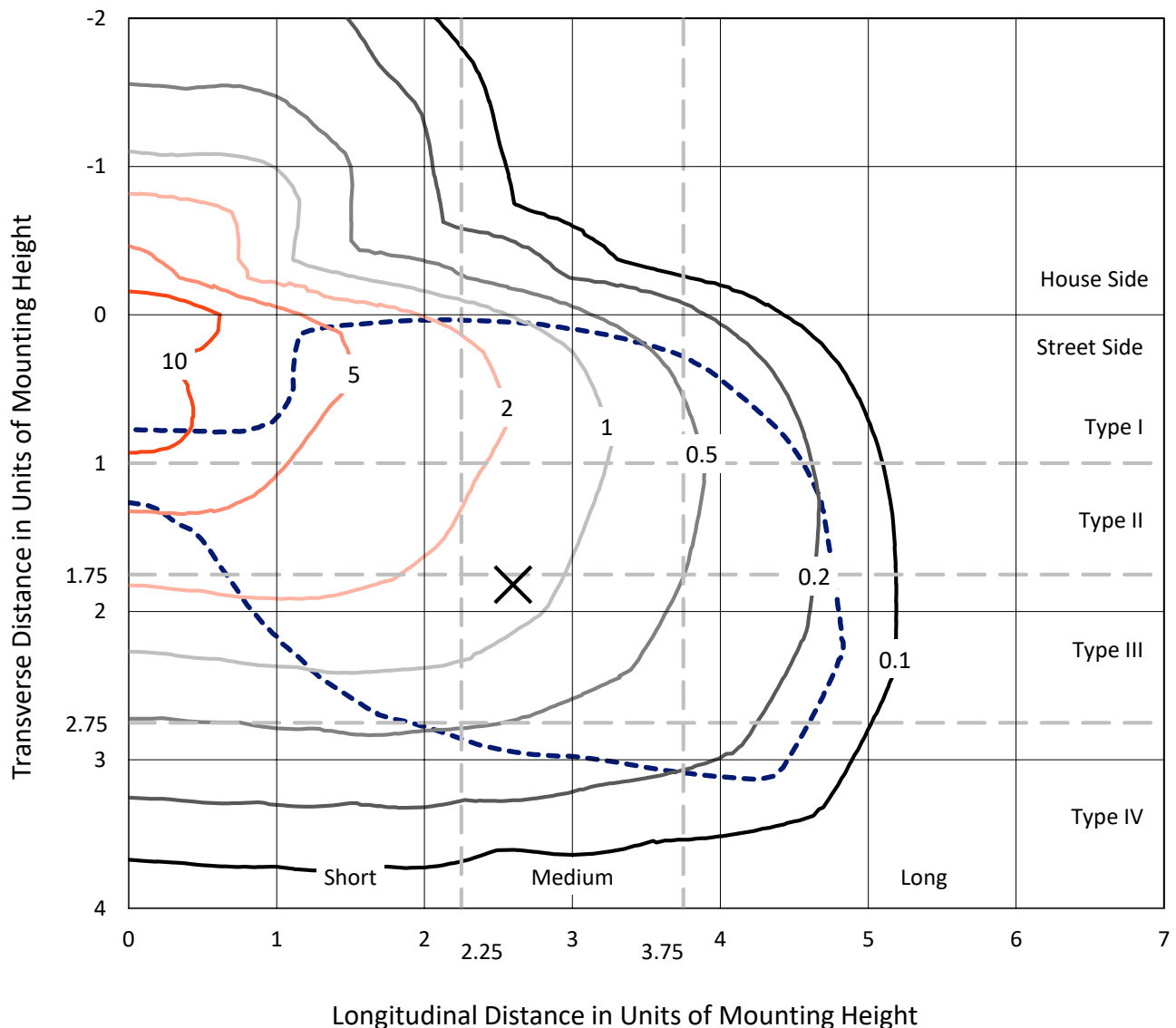
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

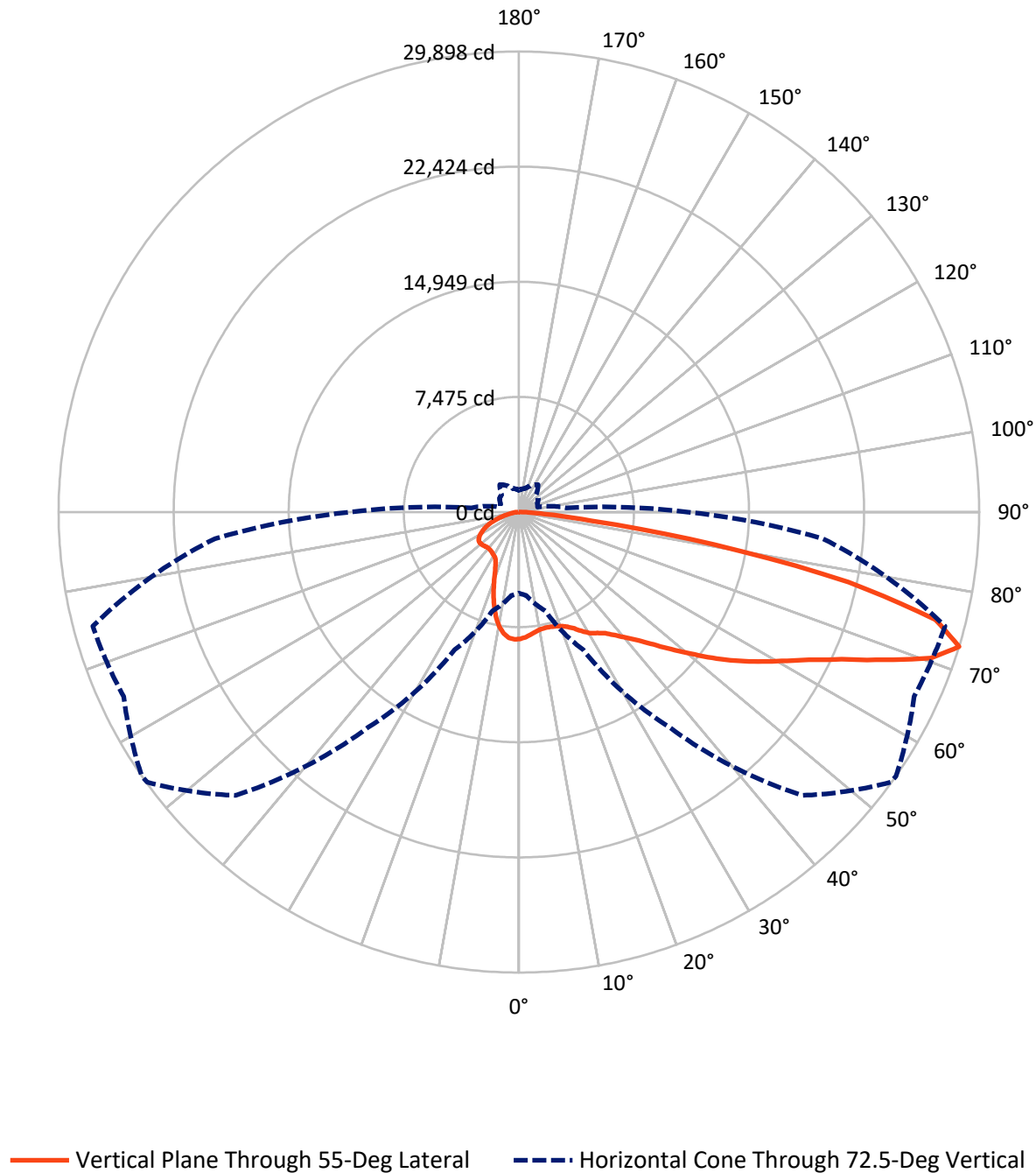
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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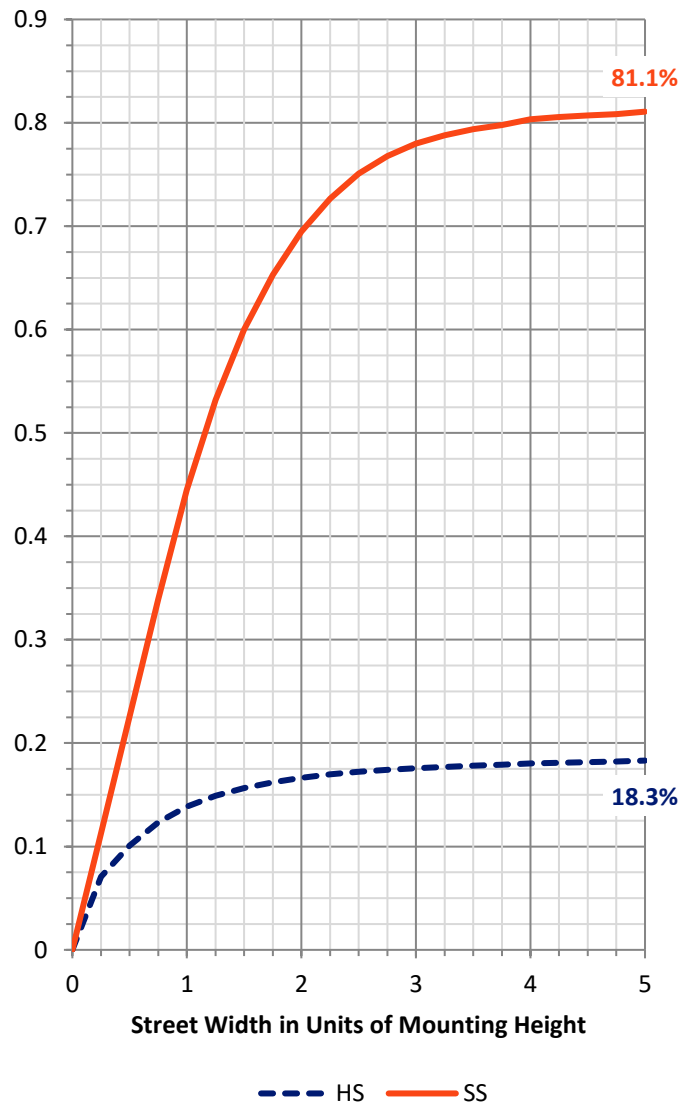
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8687.3	0.0	8687.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	38051.7	0.0	38051.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	46739.0	0.0	46739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.0	1.6
10°-20°	1986.0	4.2
20°-30°	3274.5	7.0
30°-40°	4843.8	10.4
40°-50°	6760.9	14.5
50°-60°	8802.9	18.8
60°-70°	10818.4	23.1
70°-80°	8480.4	18.1
80°-90°	1026.2	2.2
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°	46739.0	100.0
0°-180°	46739.0	100.0

Coefficient of Utilization



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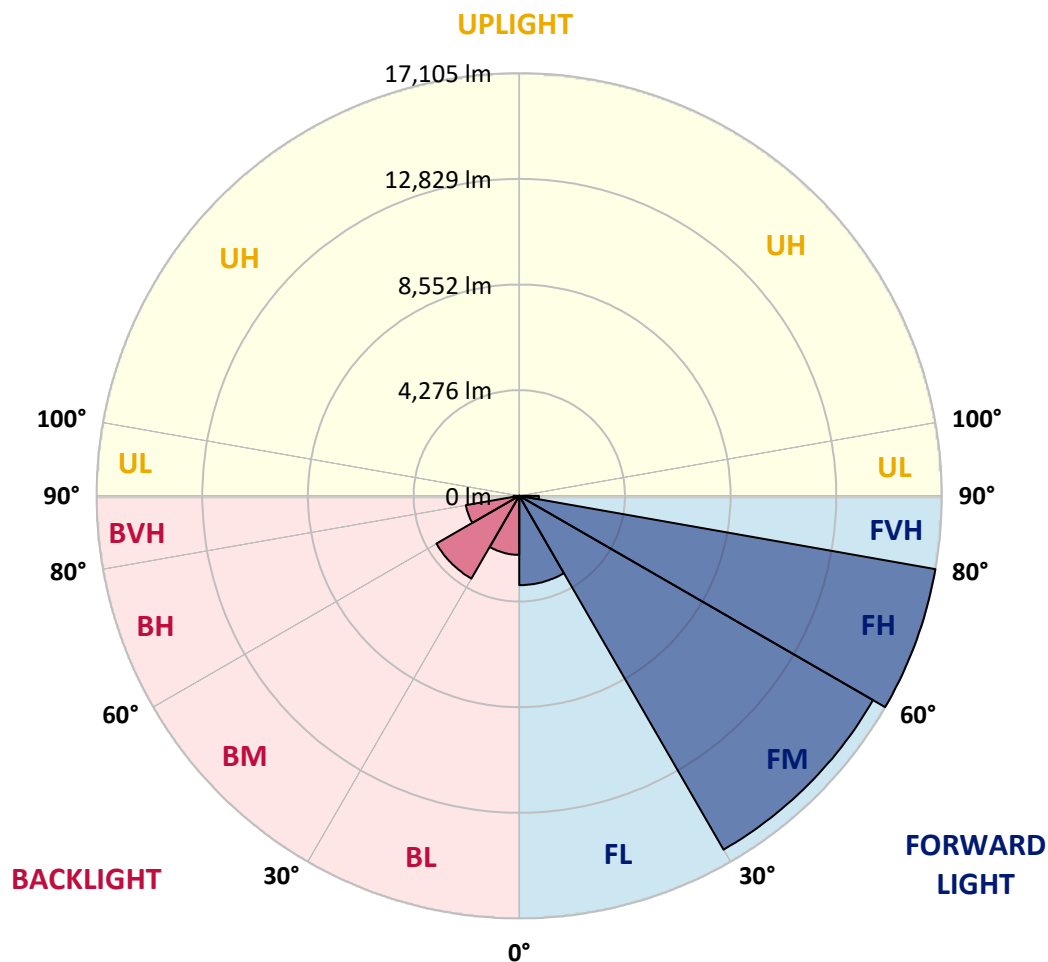
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3616.2	7.7			
FM	(30°-60°)	16537.2	35.4			
FH	(60°-80°)	17104.9	36.6			G5
FVH	(80°-90°)	793.4	1.7			G5
BL	(0°-30°)	2390.2	5.1	B3/2500		
BM	(30°-60°)	3870.3	8.3	B3/5000		
BH	(60°-80°)	2193.9	4.7	B3/2500		G3/2500
BVH	(80°-90°)	232.8	0.5			G3/500
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8243.8	8243.8	8243.8	8243.8	8243.8	8243.8	8243.8	8243.8	8243.8	8243.8	8243.8
2.5°	7975.4	7956.4	7980.1	8013.3	8049.6	8098.5	8126.9	8139.6	8188.5	8207.4	8248.5
5°	7606.0	7596.5	7636.0	7692.8	7773.3	7887.0	7978.5	7995.9	8125.4	8216.9	8300.6
7.5°	7337.6	7337.6	7383.4	7451.3	7541.3	7694.4	7823.8	7847.5	8066.9	8264.3	8419.0
10°	7124.5	7132.4	7186.1	7266.6	7372.3	7534.9	7707.0	7733.8	8051.2	8374.8	8621.1
12.5°	6982.4	7001.3	7050.3	7122.9	7253.9	7451.3	7669.1	7705.4	8084.3	8532.6	8864.2
15°	7072.4	7104.0	7108.7	7138.7	7211.3	7426.0	7691.2	7729.1	8155.3	8693.7	9140.4
17.5°	7467.1	7478.1	7429.2	7366.0	7331.3	7468.6	7757.5	7797.0	8240.6	8853.1	9405.6
20°	8066.9	8060.6	7954.9	7784.4	7607.6	7629.7	7866.5	7907.5	8355.8	8993.6	9670.9
22.5°	8824.7	8802.6	8640.0	8325.8	8024.3	7898.0	8057.5	8092.2	8529.5	9194.1	9955.0
25°	9743.5	9694.5	9479.8	9058.3	8614.7	8289.5	8344.8	8377.9	8782.1	9418.3	10215.5
27.5°	10712.8	10663.8	10390.7	9880.8	9290.4	8783.7	8741.0	8769.4	9069.4	9584.0	10408.1
30°	11726.3	11674.2	11424.8	10853.3	10007.1	9295.1	9110.4	9121.5	9271.5	9674.0	10566.0
32.5°	12744.5	12695.6	12416.1	11753.1	10785.4	9844.5	9377.2	9363.0	9393.0	9767.2	10744.3
35°	13777.0	13795.9	13469.1	12735.0	11647.3	10455.5	9693.0	9663.0	9596.7	9958.2	10996.9
37.5°	14882.0	14869.4	14446.3	13679.1	12548.8	11118.5	10146.0	10141.3	9912.4	10319.7	11393.2
40°	15620.8	15628.7	15371.4	14645.2	13459.6	11852.6	10727.0	10715.9	10416.0	10861.2	11912.6
42.5°	15909.7	15961.8	16028.1	15567.2	14413.2	12703.5	11420.0	11404.2	11118.5	11637.9	12523.5
45°	15930.2	16034.4	16444.9	16386.5	15379.3	13677.5	12305.6	12261.4	12056.2	12670.3	13252.8
47.5°	15753.4	15860.8	16542.8	16874.3	16242.8	14705.2	13341.2	13306.5	13129.7	13961.7	14042.2
50°	15366.7	15469.3	16340.7	17112.7	16953.2	15693.4	14534.7	14443.1	14348.4	15453.5	14945.2
52.5°	14642.1	14839.4	16070.7	17169.5	17377.9	16571.2	15789.7	15729.8	15781.8	17027.4	15849.7
55°	12926.1	13147.1	15374.6	17122.1	17692.0	17308.4	17044.8	17041.6	17311.6	18678.7	16820.6
57.5°	11964.7	12120.9	13956.9	17041.6	18064.6	18040.9	18287.2	18317.2	18842.9	20476.8	17837.3
60°	11421.6	11585.8	13238.6	16743.3	18642.4	18988.1	19554.8	19614.8	20399.4	22467.5	19060.7
62.5°	10927.5	11107.4	12793.4	16135.5	19322.8	20342.6	21073.5	21127.2	22047.5	24513.4	20243.1
65°	10082.9	10286.5	12141.5	15736.1	19941.6	22109.1	23004.2	23040.5	23940.4	26657.2	21147.7
67.5°	8889.4	9075.7	10911.7	14853.6	20399.4	24254.5	25571.1	25591.6	25817.4	28171.2	21610.3
70°	7495.5	7566.5	9159.4	13031.8	19857.9	26261.0	28384.3	28389.0	27528.6	29140.5	21534.5
72.5°	5266.4	5433.7	6649.3	9865.0	17065.3	26016.3	29844.5	29898.2	28324.3	28651.1	19813.7
75°	3229.9	3406.7	4170.8	5978.4	10826.4	20461.0	27574.4	27947.0	26832.5	25545.8	16186.0
77.5°	2159.6	2225.9	2721.6	3485.7	4904.9	11772.1	21199.8	21900.7	22290.7	18629.7	10351.3
80°	1204.5	1330.8	1804.4	2165.9	2181.7	4677.6	12711.4	12875.5	12401.9	7418.1	3193.6
82.5°	637.8	707.2	1204.5	1272.4	1190.3	1566.0	4737.6	4742.3	3962.4	1989.1	948.8
85°	494.1	552.5	825.6	776.7	607.8	694.6	1562.9	1648.1	1348.2	814.6	309.4
87.5°	246.3	306.3	560.4	492.5	238.4	198.9	558.8	596.7	532.0	318.9	112.1
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°	8243.8	8243.8	8243.8	8243.8	8243.8	8243.8	8243.8	8243.8	8243.8	8243.8	8243.8
2.5°	8264.3	8278.5	8295.8	8276.9	8270.6	8245.3	8202.7	8193.2	8171.1	8172.7	8185.3
5°	8336.9	8360.6	8351.1	8278.5	8191.7	8070.1	7943.8	7836.5	7765.4	7760.7	7755.9
7.5°	8475.8	8491.6	8417.4	8210.6	7967.5	7686.5	7421.3	7189.2	7048.7	7014.0	7006.1
10°	8693.7	8690.5	8486.9	8070.1	7585.5	7083.4	6657.2	6335.2	6147.3	6092.0	6077.8
12.5°	8936.8	8900.5	8510.5	7814.4	7045.6	6349.4	5809.5	5451.1	5255.4	5192.2	5176.4
15°	9187.8	9097.8	8452.1	7432.3	6382.5	5558.5	4991.7	4660.2	4554.4	4519.7	4513.4
17.5°	9421.4	9247.8	8284.8	6914.5	5626.3	4770.7	4328.7	4196.1	4221.3	4267.1	4268.7
20°	9650.3	9348.8	8016.4	6261.0	4829.1	4121.9	3971.9	4069.8	4189.8	4282.9	4295.5
22.5°	9876.1	9419.9	7670.7	5506.4	4115.6	3757.2	3863.0	4041.4	4178.7	4279.7	4297.1
25°	10065.5	9437.2	7193.9	4701.2	3619.9	3619.9	3810.9	3979.8	4115.6	4215.0	4232.4
27.5°	10135.0	9320.4	6521.4	3956.1	3370.4	3556.7	3738.3	3878.8	3994.0	4099.8	4118.7
30°	10161.8	9104.1	5744.7	3357.8	3267.8	3488.8	3640.4	3760.4	3869.3	3968.7	3986.1
32.5°	10166.6	8843.6	4920.7	3018.4	3196.8	3417.8	3518.8	3624.6	3741.4	3780.9	3787.2
35°	10196.6	8535.8	4052.4	2844.7	3130.5	3351.5	3432.0	3507.8	3318.3	3332.5	3345.2
37.5°	10283.4	8231.1	3326.2	2746.9	3087.9	3316.8	3413.1	3138.4	2990.0	2955.2	2950.5
40°	10446.0	7905.9	2787.9	2667.9	3072.1	3334.1	3291.5	2930.0	2674.2	2483.2	2454.8
42.5°	10671.7	7555.5	2443.8	2615.8	3083.1	3417.8	3122.6	2729.5	2304.8	2181.7	2165.9
45°	10925.9	7187.6	2257.5	2579.5	3121.0	3482.5	3087.9	2462.7	2132.8	2039.6	2031.7
47.5°	11172.2	6737.7	2161.2	2563.7	3173.1	3430.4	2941.0	2380.6	2050.7	2001.7	2006.5
50°	11454.7	6332.0	2102.8	2546.4	3218.9	3397.3	2775.3	2338.0	2019.1	2079.1	2142.2
52.5°	11693.1	5912.1	2050.7	2511.6	3236.2	3338.9	2732.7	2345.9	2019.1	2134.3	2194.3
55°	11975.7	5594.8	1990.7	2439.0	3203.1	3173.1	2702.7	2393.2	2042.8	1970.2	1976.5
57.5°	12340.4	5490.6	1924.4	2325.4	3092.6	2931.6	2688.5	2439.0	2028.6	1982.8	1998.6
60°	12845.5	5601.1	1897.5	2177.0	2920.5	2742.1	2690.0	2415.3	1929.1	1850.2	1851.8
62.5°	13327.0	5724.2	1896.0	2083.8	2709.0	2573.2	2653.7	2338.0	1878.6	1832.8	1850.2
65°	13484.9	5599.5	1820.2	1979.6	2470.6	2371.1	2587.4	2255.9	1840.7	1771.3	1768.1
67.5°	13273.4	5212.7	1667.1	1810.7	2197.5	2135.9	2500.6	2158.0	1780.7	1723.9	1714.4
70°	12645.1	4349.2	1477.6	1588.1	1886.5	1870.7	2363.3	2044.4	1700.2	1651.3	1610.2
72.5°	10954.3	3098.9	1245.6	1321.3	1536.0	1586.6	2173.8	1896.0	1586.6	1480.8	1417.6
75°	8996.8	2293.8	1023.0	1038.8	1166.6	1304.0	1913.3	1722.3	1452.4	1272.4	1223.5
77.5°	5509.5	1403.4	814.6	820.9	836.7	1040.3	1575.5	1528.1	1281.9	1060.9	1026.1
80°	1783.9	765.6	588.8	618.8	571.5	762.5	1218.7	1300.8	1100.3	887.2	849.3
82.5°	678.8	446.8	397.8	418.3	396.2	511.5	888.8	1041.9	901.4	729.3	593.6
85°	328.4	252.6	235.2	263.6	244.7	262.1	568.3	767.2	683.6	475.2	442.0
87.5°	116.8	112.1	90.0	121.6	104.2	93.1	173.7	386.8	451.5	326.8	292.1
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)