

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: P318900

Luminaire Tested: **GAN-SA6D-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37099 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

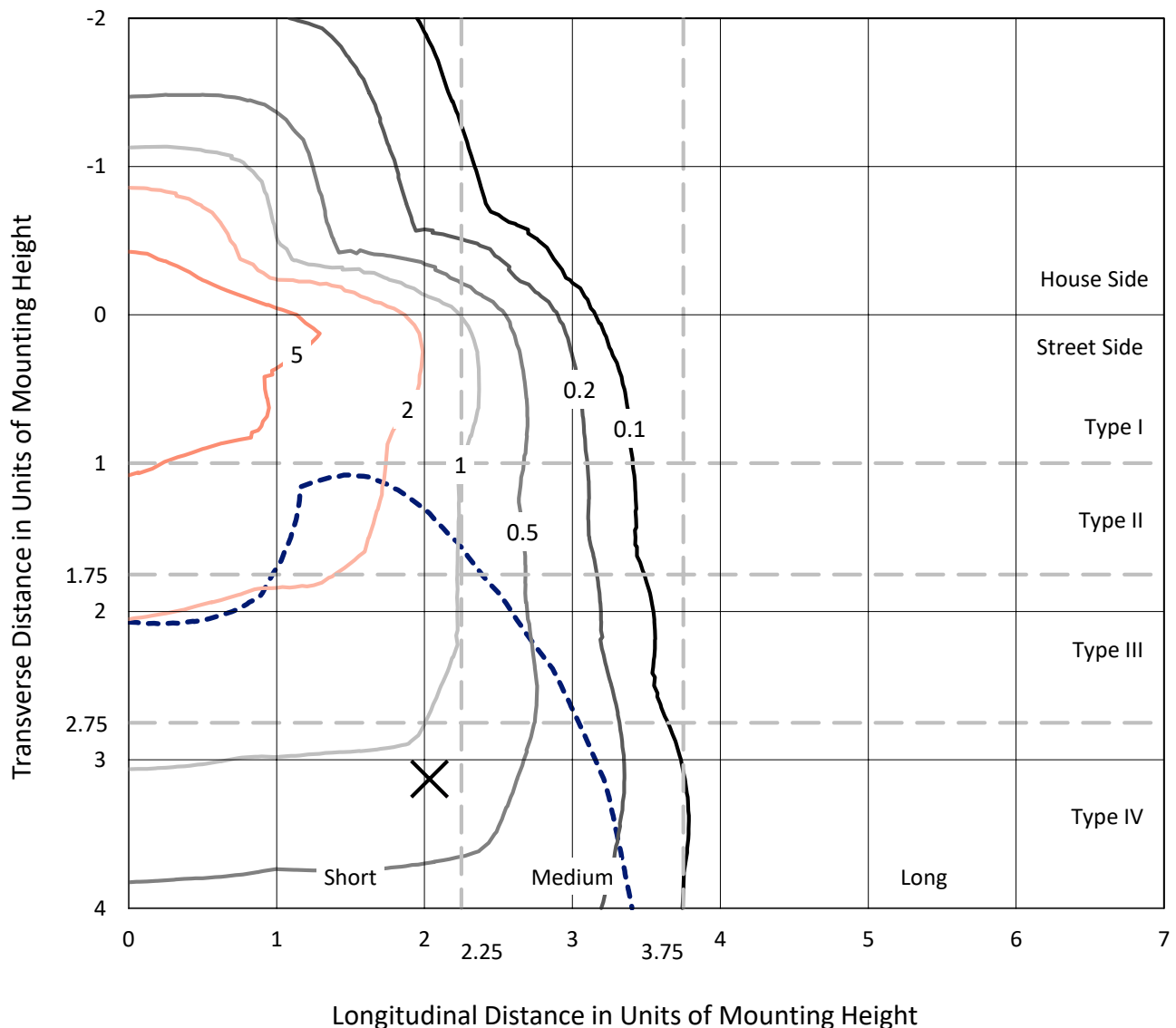
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

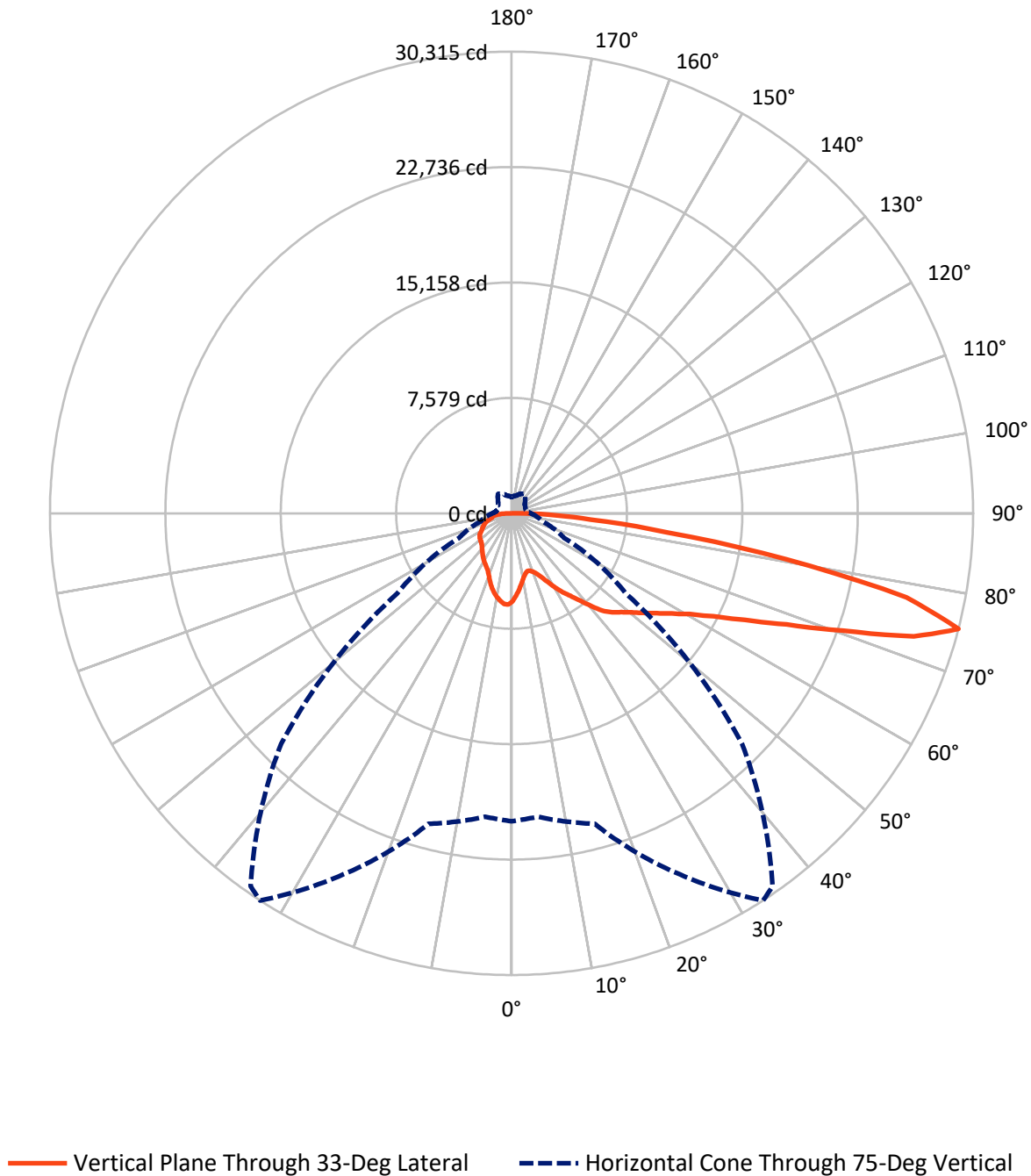
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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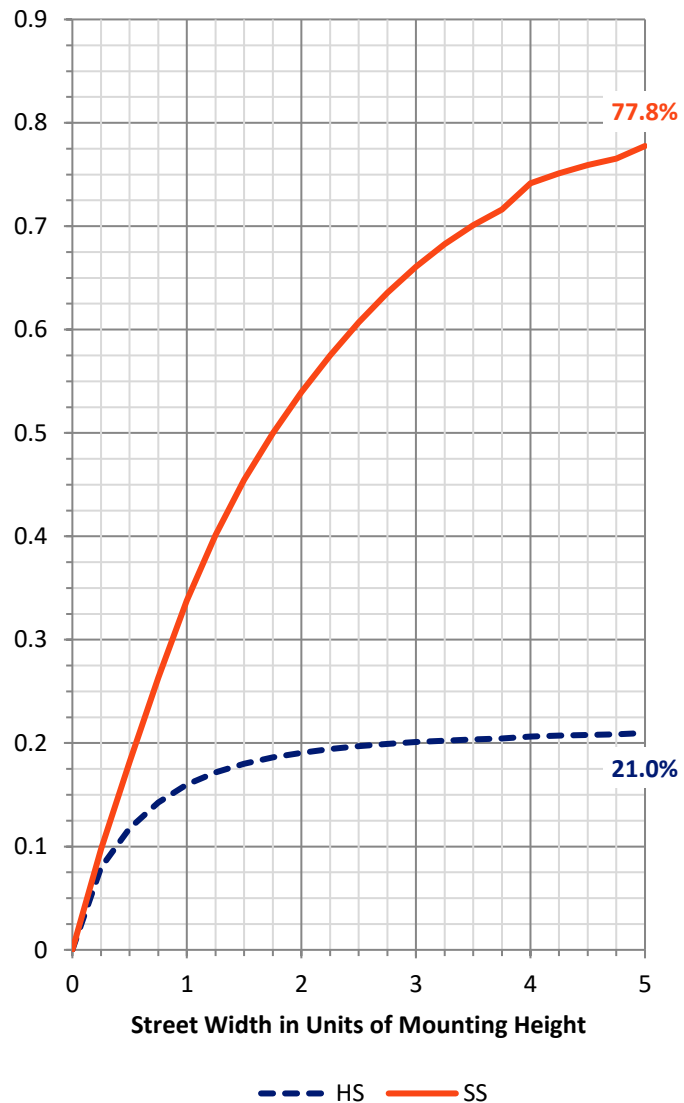
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7966.1	0.0	7966.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	29132.9	0.0	29132.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	37099.0	0.0	37099.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.4	1.4
10°-20°	1420.4	3.8
20°-30°	2319.7	6.3
30°-40°	3454.5	9.3
40°-50°	4954.7	13.4
50°-60°	6802.1	18.3
60°-70°	8515.9	23.0
70°-80°	7703.9	20.8
80°-90°	1403.3	3.8
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°	37099.0	100.0
0°-180°	37099.0	100.0

Coefficient of Utilization



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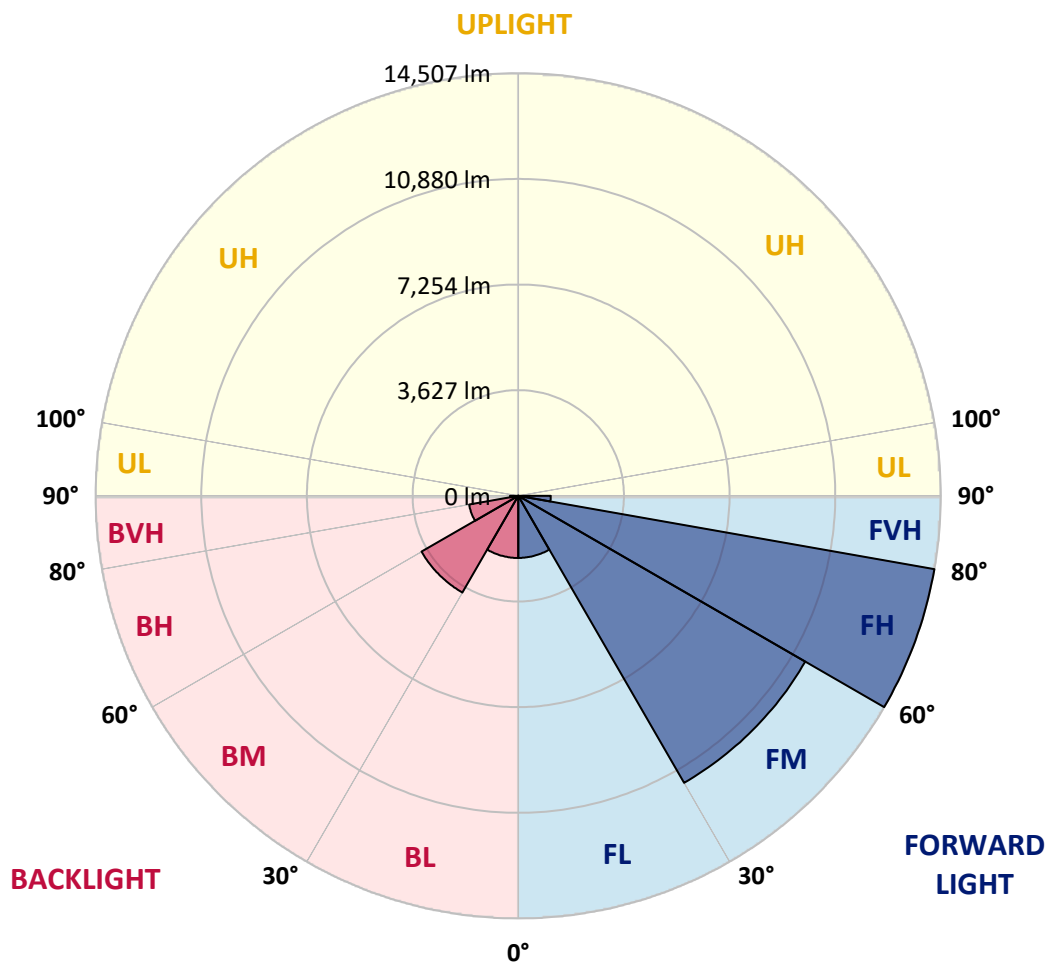
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2130.8	5.7			
FM	(30°-60°)	11377.5	30.7			
FH	(60°-80°)	14507.0	39.1			G5
FVH	(80°-90°)	1117.6	3.0			G5
BL	(0°-30°)	2133.7	5.8	B3/2500		
BM	(30°-60°)	3833.9	10.3	B3/5000		
BH	(60°-80°)	1712.9	4.6	B3/2500		G3/2500
BVH	(80°-90°)	285.7	0.8			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	5798.8	5798.8	5798.8	5798.8	5798.8	5798.8	5798.8	5798.8	5798.8	5798.8	5798.8
2.5°	5384.9	5364.4	5402.8	5407.9	5441.2	5454.1	5500.2	5572.0	5630.9	5698.8	5760.3
5°	4896.6	4882.5	4936.3	4974.8	5047.8	5078.6	5187.5	5340.0	5475.8	5629.6	5769.3
7.5°	4432.7	4425.0	4485.2	4572.4	4657.0	4699.3	4887.6	5109.3	5336.2	5584.8	5798.8
10°	4041.8	4039.3	4097.0	4182.8	4307.1	4354.5	4598.0	4890.2	5208.0	5550.2	5848.8
12.5°	3822.7	3831.7	3858.6	3930.4	4045.7	4093.1	4363.5	4706.9	5100.4	5538.6	5921.8
15°	3876.5	3890.6	3844.5	3841.9	3923.9	3961.1	4214.8	4576.2	5023.5	5557.9	6028.2
17.5°	4105.9	4108.5	3986.7	3909.9	3959.8	3979.1	4168.7	4501.9	4978.6	5601.4	6161.4
20°	4428.9	4422.5	4207.2	4079.0	4105.9	4111.0	4234.1	4503.2	4974.8	5677.0	6334.4
22.5°	4856.9	4809.5	4519.8	4345.6	4339.2	4331.5	4401.9	4598.0	5031.2	5800.1	6540.8
25°	5415.6	5370.8	4972.2	4733.9	4682.6	4663.4	4673.6	4800.5	5142.7	5932.1	6771.4
27.5°	6037.1	5959.0	5574.5	5237.5	5131.1	5104.2	5042.7	5086.3	5264.4	6058.9	7045.7
30°	6557.4	6515.1	6179.4	5779.6	5654.0	5615.5	5454.1	5406.6	5440.0	6231.9	7391.7
32.5°	6848.3	6820.1	6616.4	6293.4	6176.8	6123.0	5894.9	5800.1	5721.9	6504.9	7860.7
35°	7200.7	7182.8	7059.8	6825.3	6652.3	6595.9	6419.0	6320.4	6119.2	6880.4	8466.9
37.5°	7649.3	7630.0	7632.6	7442.9	7236.6	7184.1	7067.5	6963.7	6634.3	7373.7	9125.6
40°	8156.7	8119.6	8105.5	8096.5	7965.8	7936.3	7874.8	7733.8	7280.2	7963.2	9775.3
42.5°	8920.5	8788.5	8506.6	8613.0	8742.4	8727.0	8777.0	8574.5	7997.8	8660.4	10409.6
45°	9657.4	9440.8	8953.8	8976.9	9260.1	9346.0	9720.2	9576.6	8775.7	9424.1	11065.7
47.5°	9993.1	9829.1	9415.2	9416.5	9697.1	9875.2	10695.4	10592.9	9593.3	10291.7	11866.7
50°	10368.6	10204.6	9832.9	9972.6	10217.4	10407.1	11637.3	11584.7	10371.2	11241.3	12826.5
52.5°	10778.7	10500.6	10264.8	10514.7	10858.1	11078.6	12580.5	12436.9	11085.0	12197.3	13929.9
55°	10783.8	10708.2	10887.6	11070.9	11584.7	11855.1	13568.5	13189.2	11666.8	13136.6	14828.2
57.5°	11397.6	11274.6	11655.2	11739.8	12411.3	12716.3	14551.4	13844.0	12258.8	13856.8	15312.6
60°	12210.1	12105.0	12416.4	12639.4	13434.0	13841.5	15601.0	14516.8	12724.0	14400.2	15289.6
62.5°	13613.4	13494.2	13490.3	13803.0	14873.1	15347.2	16778.7	15176.8	12908.5	14507.8	14637.3
65°	15667.6	15477.9	15120.4	15269.1	16860.7	17333.6	18094.8	15654.8	12665.1	13931.2	12957.2
67.5°	17666.7	17660.3	17220.8	17525.8	19485.2	19864.5	19594.1	15702.2	11905.1	11923.1	9976.5
70°	19659.5	19685.1	19610.8	20671.9	23031.1	23425.8	21190.9	15065.3	10196.9	8610.4	5976.9
72.5°	21238.3	21231.9	21606.1	24342.1	27633.0	27544.5	22536.4	13135.4	7321.2	4648.0	2856.5
75°	20215.6	19992.7	21107.6	26159.2	30315.1	29883.3	21392.1	9162.7	3799.6	2115.8	1537.8
77.5°	13185.3	13396.8	15033.3	21609.9	26516.8	25991.4	15694.5	4275.1	1790.3	1387.9	1114.9
80°	4774.9	4997.8	7039.3	12240.9	18269.0	18183.2	7728.7	1756.9	1211.0	1048.3	812.5
82.5°	1642.9	1724.9	2777.0	5436.1	10314.8	10699.2	2907.7	998.3	880.4	743.3	556.2
85°	644.6	738.1	1270.0	2615.5	5202.9	5241.3	1177.7	597.2	612.6	487.0	305.0
87.5°	244.8	297.3	607.4	1214.9	2375.9	2182.4	421.6	284.5	348.6	289.6	144.8
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°	5798.8	5798.8	5798.8	5798.8	5798.8	5798.8	5798.8	5798.8	5798.8	5798.8	5798.8
2.5°	5807.8	5834.7	5891.0	5929.5	5970.5	5982.0	5987.2	5997.4	6007.7	6003.8	6005.1
5°	5843.6	5896.2	5987.2	6025.6	6043.5	6023.0	5983.3	5951.3	5928.2	5915.4	5911.6
7.5°	5902.6	5976.9	6074.3	6067.9	6026.9	5935.9	5833.4	5756.5	5692.4	5669.4	5656.5
10°	5980.8	6067.9	6135.8	6062.8	5943.6	5786.0	5632.2	5513.0	5416.9	5379.7	5373.3
12.5°	6080.7	6169.1	6181.9	6026.9	5829.5	5614.2	5405.4	5247.7	5104.2	5058.1	5047.8
15°	6210.1	6293.4	6214.0	5964.1	5688.6	5399.0	5128.6	4914.5	4763.3	4706.9	4686.4
17.5°	6346.0	6425.4	6220.4	5860.3	5504.0	5143.9	4804.3	4585.2	4412.2	4346.8	4339.2
20°	6508.7	6544.6	6193.5	5711.6	5250.3	4813.3	4455.8	4249.4	4157.2	4111.0	4105.9
22.5°	6709.9	6671.5	6132.0	5510.4	4928.6	4431.4	4140.5	4044.4	4021.3	4011.1	4014.9
25°	6922.7	6804.8	6041.0	5247.7	4522.4	4049.5	3909.9	3936.8	3967.5	3963.7	3963.7
27.5°	7157.2	6940.6	5901.3	4899.2	4072.6	3736.9	3753.5	3852.2	3898.3	3897.0	3895.8
30°	7458.3	7094.4	5723.2	4480.1	3652.3	3516.4	3617.7	3738.1	3800.9	3798.4	3799.6
32.5°	7828.7	7263.5	5481.0	4012.4	3348.6	3353.7	3470.3	3589.5	3662.5	3656.1	3657.4
35°	8261.8	7453.2	5152.9	3551.0	3147.4	3224.3	3316.5	3399.8	3469.0	3460.0	3451.1
37.5°	8733.4	7639.0	4717.2	3138.4	2983.3	3103.8	3180.7	3194.8	3226.8	3203.7	3187.1
40°	9181.9	7781.3	4155.9	2800.1	2818.0	3001.3	3051.2	2994.9	2937.2	2929.5	2906.4
42.5°	9572.8	7828.7	3588.2	2529.7	2643.7	2893.6	2924.4	2806.5	2702.7	2654.0	2633.5
45°	9985.4	7845.3	3058.9	2302.9	2475.9	2797.5	2830.8	2673.2	2527.1	2422.0	2387.4
47.5°	10524.9	7965.8	2647.6	2135.0	2347.7	2733.4	2780.9	2566.8	2377.2	2227.2	2195.2
50°	11231.1	8204.2	2313.1	2006.8	2264.4	2691.1	2745.0	2463.0	2254.2	2073.5	2041.4
52.5°	12015.3	8423.3	2042.7	1903.0	2183.7	2616.8	2698.8	2388.7	2138.8	1931.2	1896.6
55°	12563.8	8255.4	1824.9	1795.4	2078.6	2510.5	2634.8	2325.9	1973.5	1792.8	1762.1
57.5°	12668.9	7681.3	1659.5	1683.9	1951.7	2377.2	2536.1	2186.2	1883.8	1732.6	1700.5
60°	12381.8	6881.6	1536.5	1581.4	1815.9	2209.3	2351.6	2087.6	1797.9	1668.5	1641.6
62.5°	11660.4	6062.8	1445.5	1489.1	1689.0	2038.9	2236.2	1983.8	1710.8	1595.5	1568.6
65°	10203.3	5090.1	1358.4	1407.1	1571.1	1891.5	2132.4	1887.6	1624.9	1536.5	1510.9
67.5°	7701.8	3812.5	1276.4	1319.9	1466.0	1763.3	2019.6	1792.8	1541.6	1485.3	1454.5
70°	4535.2	2387.4	1182.8	1229.0	1355.8	1630.1	1899.2	1689.0	1437.8	1412.2	1372.5
72.5°	2110.6	1436.6	1076.5	1121.3	1217.4	1451.9	1744.1	1553.2	1314.8	1258.4	1204.6
75°	1259.7	1050.8	950.9	990.6	1058.5	1262.3	1549.3	1414.8	1198.2	1123.9	1067.5
77.5°	941.9	803.5	812.5	854.8	909.9	1104.7	1372.5	1305.8	1108.5	1050.8	1012.4
80°	677.9	610.0	662.5	708.7	766.3	1004.7	1314.8	1207.2	1002.1	925.2	889.4
82.5°	452.4	438.3	498.5	545.9	602.3	879.1	1235.4	1057.2	856.0	758.6	679.2
85°	249.9	264.0	335.8	356.3	405.0	619.0	1012.4	849.6	644.6	519.0	495.9
87.5°	103.8	121.7	180.7	174.3	215.3	369.1	666.4	512.6	410.1	306.3	238.4
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)