

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: P319499

Luminaire Tested: **GAN-SA5D-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319499
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-SA5D-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 27926 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

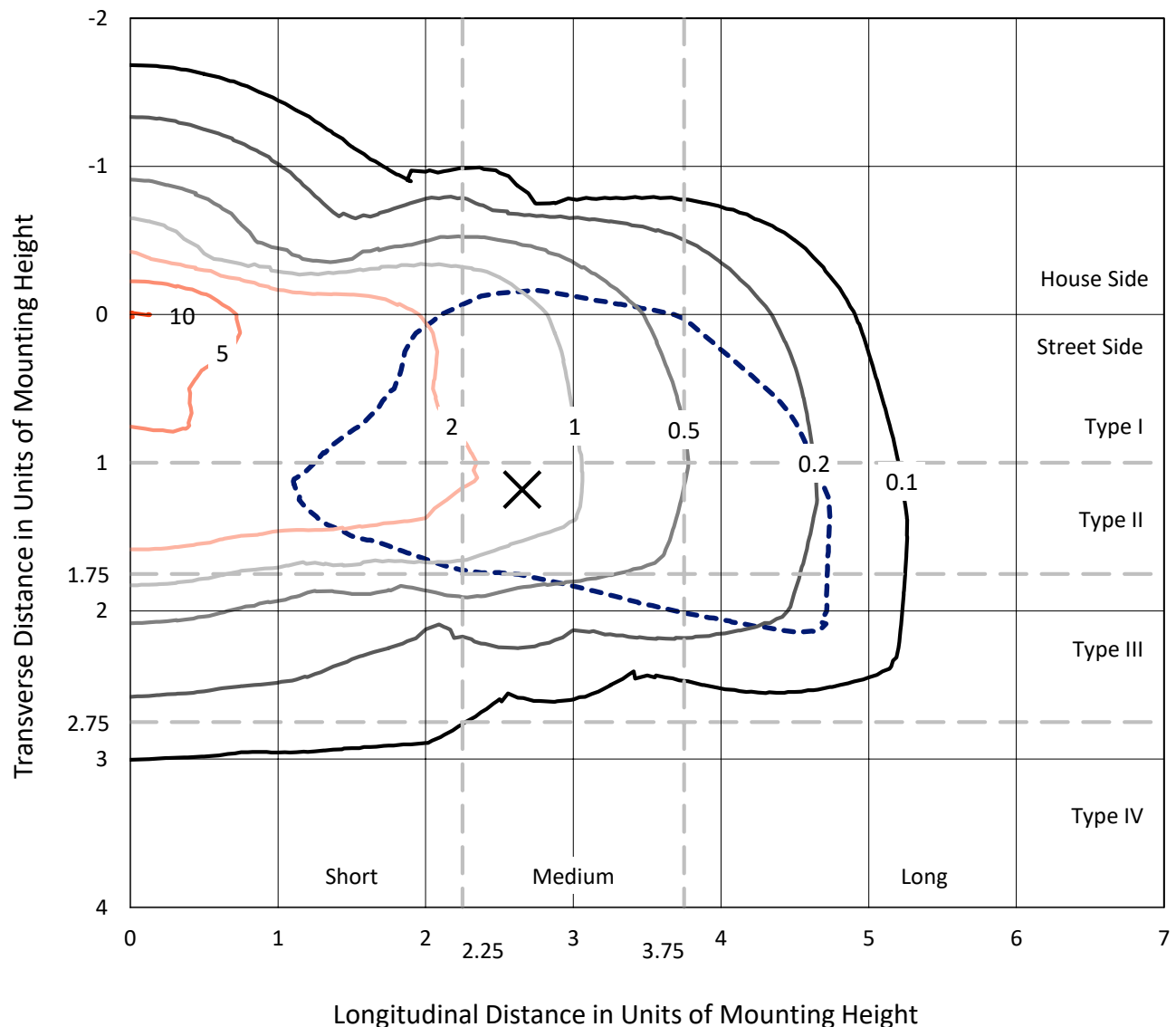
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

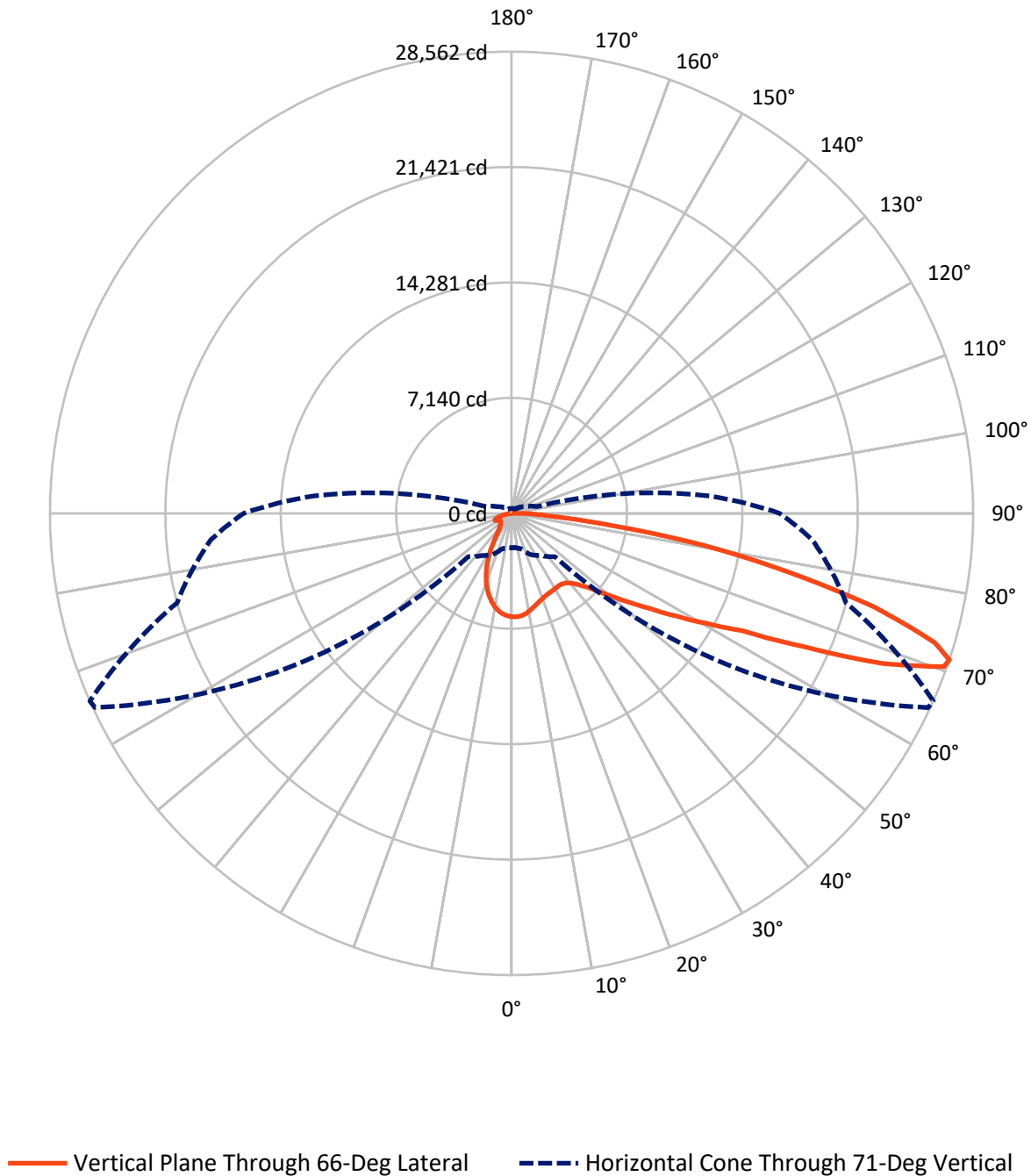
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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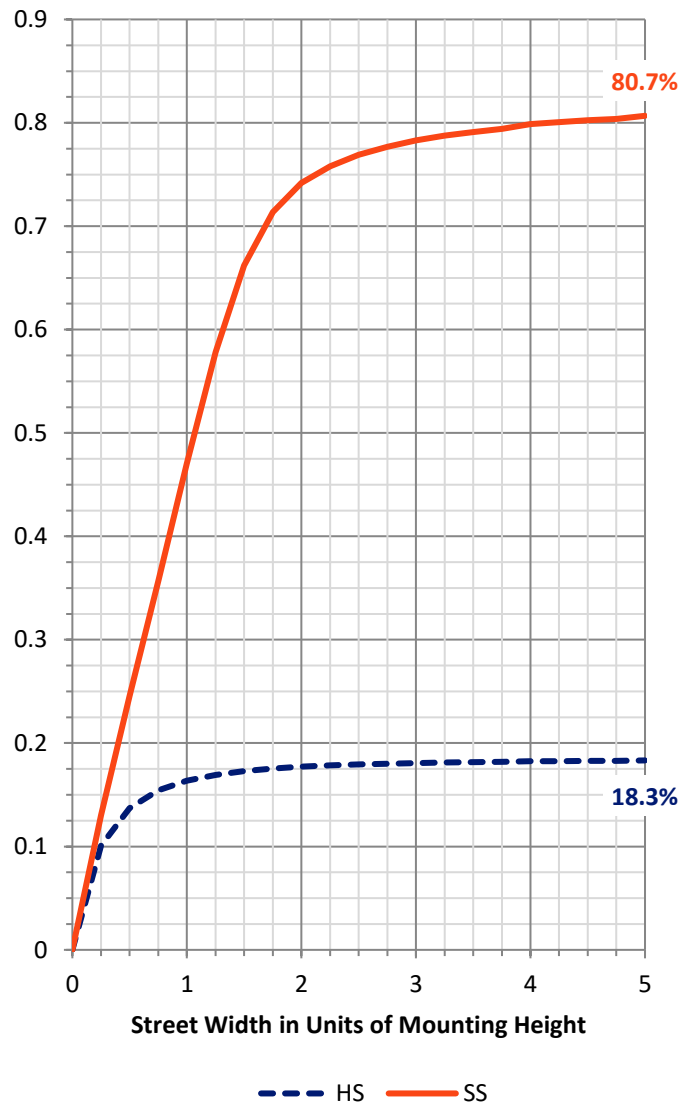
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5175.4	0.0	5175.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	22750.6	0.0	22750.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	27926.0	0.0	27926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.1	2.0
10°-20°	1350.6	4.8
20°-30°	1814.2	6.5
30°-40°	2386.5	8.5
40°-50°	3471.8	12.4
50°-60°	5423.3	19.4
60°-70°	6793.6	24.3
70°-80°	5182.0	18.6
80°-90°	941.0	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°	27926.0	100.0
0°-180°	27926.0	100.0

Coefficient of Utilization



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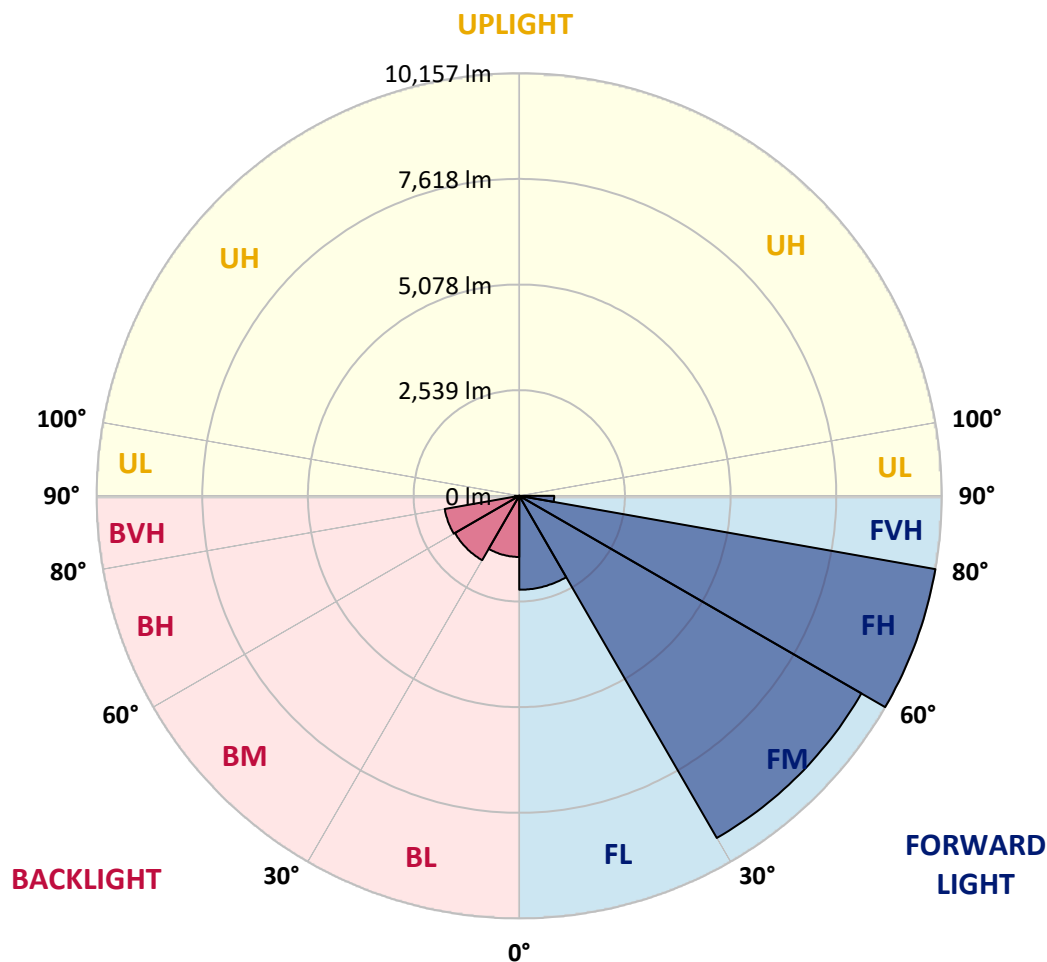
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2258.2	8.1			
FM	(30°-60°)	9496.2	34.0			
FH	(60°-80°)	10157.0	36.4			G4/12000
FVH	(80°-90°)	839.1	3.0			G5
BL	(0°-30°)	1469.7	5.3	B3/2500		
BM	(30°-60°)	1785.4	6.4	B2/2500		
BH	(60°-80°)	1818.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	101.9	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6397.3	6397.3	6397.3	6397.3	6397.3	6397.3	6397.3	6397.3	6397.3	6397.3	6397.3
2.5°	6278.7	6269.1	6298.0	6327.9	6339.5	6358.7	6387.7	6404.1	6403.1	6406.0	6396.3
5°	5862.2	5849.7	5907.5	5954.7	6045.4	6147.6	6272.0	6360.7	6362.6	6412.7	6426.2
7.5°	5467.8	5459.2	5525.7	5601.9	5707.0	5863.2	6064.7	6255.6	6267.1	6403.1	6450.3
10°	5151.6	5149.7	5214.3	5297.2	5419.6	5594.1	5825.5	6105.2	6122.5	6356.8	6454.2
12.5°	4904.8	4908.6	4964.5	5059.0	5188.2	5370.5	5621.1	5936.4	5964.4	6283.5	6432.0
15°	4722.5	4738.0	4783.3	4878.7	5006.0	5191.1	5448.6	5780.2	5822.7	6201.6	6419.5
17.5°	4618.4	4635.8	4667.6	4746.6	4866.2	5044.6	5288.5	5652.0	5690.6	6138.9	6420.4
20°	4587.5	4602.0	4620.3	4668.5	4769.8	4931.8	5162.2	5536.3	5577.8	6088.8	6430.1
22.5°	4648.3	4658.9	4660.8	4657.0	4718.7	4850.8	5070.6	5451.4	5495.8	6056.0	6436.8
25°	4778.5	4792.9	4782.3	4746.6	4726.4	4807.4	5023.4	5395.5	5439.9	6031.9	6423.3
27.5°	4974.2	4976.1	4967.4	4921.2	4825.7	4812.2	5008.9	5362.7	5405.2	6003.9	6395.4
30°	5240.3	5252.8	5237.4	5174.7	5018.5	4889.3	5026.2	5330.9	5369.5	5968.2	6350.1
32.5°	5551.7	5582.6	5581.6	5516.0	5292.4	5061.9	5097.6	5311.6	5341.5	5930.6	6295.1
35°	5874.7	5917.1	5996.2	5968.2	5691.5	5334.8	5234.5	5342.5	5362.7	5925.8	6256.5
37.5°	6210.3	6252.7	6415.6	6490.8	6166.9	5725.3	5450.5	5451.4	5461.1	5984.6	6253.6
40°	6561.2	6606.5	6851.4	7047.2	6783.0	6219.9	5798.6	5679.0	5668.4	6129.3	6310.5
42.5°	7052.9	7093.4	7387.5	7637.2	7466.6	6853.4	6279.7	6030.0	6007.8	6412.7	6492.8
45°	7674.8	7709.5	8021.9	8289.0	8201.3	7576.5	6884.2	6513.0	6509.2	6885.2	6862.0
47.5°	8414.4	8441.4	8721.9	8980.3	9012.2	8408.6	7644.0	7258.3	7195.6	7533.1	7433.8
50°	9184.7	9214.6	9405.5	9683.2	9919.4	9522.2	8621.7	8171.4	8087.5	8388.3	8243.7
52.5°	9694.8	9734.3	9900.2	10252.1	10939.5	10742.8	9777.7	9278.3	9151.0	9424.8	9313.9
55°	9467.2	9555.9	9809.5	10373.6	11755.2	12607.6	11203.7	10569.3	10425.6	10653.2	10587.6
57.5°	8432.7	8554.2	8900.3	9771.0	11870.0	14250.5	13359.6	12089.8	11988.6	11923.0	11952.9
60°	6541.9	6658.6	7087.7	8222.5	11070.7	15450.0	16604.1	13964.2	13817.6	13197.6	13224.6
62.5°	4630.0	4571.2	4865.2	5695.4	8995.8	15590.7	20295.9	16471.0	15988.9	14543.6	14425.0
65°	3530.8	3517.3	3649.4	3913.6	5448.6	13906.3	22495.2	20684.5	19931.4	16126.8	15847.2
67.5°	2901.2	2877.1	3007.3	3392.0	3508.6	8971.7	22543.4	25572.8	24833.3	18097.6	17492.1
70°	2385.4	2358.4	2479.9	2976.4	3242.5	4549.9	18973.0	28435.5	28395.9	20592.9	18733.9
71°	2138.5	2119.3	2264.8	2816.4	3185.6	3792.1	16381.3	28443.2	28561.8	21437.5	18660.7
72.5°	1741.3	1748.1	1902.3	2506.9	3143.2	3348.6	12039.7	27117.4	27368.1	22242.6	17994.4
75°	1157.0	1162.8	1365.3	1928.4	3047.8	3276.3	6617.1	22754.5	23215.4	21760.5	16419.9
77.5°	777.1	775.2	913.1	1322.8	2655.3	3276.3	3879.8	17018.7	17524.9	17314.7	12658.7
80°	535.1	531.3	628.6	913.1	2010.3	3315.8	2999.6	11926.9	12080.2	9350.6	5144.8
82.5°	327.8	330.7	410.7	645.0	1368.2	2984.1	2831.8	6503.4	6336.6	2622.6	1285.2
85°	188.0	187.1	262.3	436.8	878.4	2518.4	2761.4	2799.0	2567.6	789.7	464.7
87.5°	67.5	72.3	140.8	242.0	503.3	1753.8	2342.9	1455.9	1312.2	356.7	210.2
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°	6397.3	6397.3	6397.3	6397.3	6397.3	6397.3	6397.3	6397.3	6397.3	6397.3	6397.3
2.5°	6389.6	6395.4	6388.6	6350.1	6317.3	6264.2	6234.4	6192.9	6180.4	6174.6	6190.0
5°	6413.7	6415.6	6358.7	6257.5	6143.7	6009.7	5913.3	5794.7	5738.8	5714.7	5730.1
7.5°	6435.9	6427.2	6302.8	6109.0	5898.8	5665.5	5458.2	5268.3	5157.4	5112.1	5115.9
10°	6438.8	6402.1	6202.5	5902.7	5576.8	5234.5	4916.3	4623.2	4438.1	4317.6	4354.2
12.5°	6408.9	6347.2	6055.0	5635.6	5183.4	4716.7	4286.7	3847.1	3582.9	3460.4	3464.3
15°	6385.7	6273.9	5873.8	5321.3	4713.9	4095.8	3508.6	2991.8	2710.3	2585.0	2526.1
17.5°	6366.5	6194.8	5663.6	4967.4	4159.5	3375.6	2669.8	2208.9	2054.7	2018.0	2002.6
20°	6339.5	6110.9	5429.3	4557.7	3527.9	2569.5	1949.6	1722.0	1723.0	1765.4	1771.2
22.5°	6301.9	6015.5	5179.6	4097.7	2850.1	1871.5	1528.2	1462.7	1529.2	1610.2	1624.6
25°	6245.9	5902.7	4901.9	3589.6	2173.3	1438.6	1305.5	1302.6	1383.6	1468.4	1481.0
27.5°	6166.9	5755.2	4593.3	3043.9	1601.5	1222.6	1169.5	1189.8	1249.6	1311.3	1316.1
30°	6060.8	5583.5	4253.0	2468.3	1255.4	1088.6	1082.8	1101.1	1137.7	1181.1	1185.0
32.5°	5944.1	5409.0	3889.5	1911.0	1075.1	1016.2	1022.0	1030.7	1048.1	1065.4	1069.3
35°	5838.1	5230.7	3517.3	1452.0	989.2	969.0	965.1	963.2	965.1	959.4	960.3
37.5°	5769.6	5083.1	3129.7	1156.0	940.1	927.5	916.0	901.5	885.1	875.5	877.4
40°	5744.6	4973.2	2737.3	998.9	899.6	890.9	868.7	837.9	818.6	812.8	812.8
42.5°	5812.1	4916.3	2358.4	919.8	865.8	851.4	814.7	779.1	764.6	763.6	762.7
45°	6018.4	4939.5	1997.8	876.4	835.0	807.0	758.8	728.9	719.3	721.2	720.2
47.5°	6388.6	5085.1	1689.2	847.5	804.1	767.5	713.5	689.4	677.8	677.8	678.8
50°	7018.2	5425.4	1443.4	823.4	778.1	730.8	680.7	650.8	635.4	634.4	634.4
52.5°	7935.2	6034.8	1290.1	803.2	749.2	698.1	647.9	610.3	592.0	588.1	586.2
55°	9084.5	6908.3	1247.6	789.7	710.6	662.4	608.4	570.8	550.5	541.9	540.9
57.5°	10369.7	7970.8	1331.5	773.3	671.1	620.0	565.0	529.3	508.1	497.5	496.6
60°	11670.4	9130.7	1673.8	750.1	638.3	573.7	520.7	487.9	466.7	455.1	453.2
62.5°	12973.0	10353.3	2372.8	748.2	615.1	529.3	475.3	447.4	427.1	414.6	411.7
65°	14442.4	11691.6	3167.3	799.3	607.4	488.8	429.1	406.9	389.5	378.0	377.0
67.5°	16129.7	13202.5	3091.1	904.4	633.5	452.2	385.7	368.3	355.8	346.1	345.2
70°	16921.3	12966.2	1921.6	978.6	670.1	416.5	344.2	331.7	322.0	315.3	312.4
71°	16589.6	12311.6	1611.1	970.0	666.2	401.1	327.8	318.2	308.5	302.8	299.9
72.5°	15685.2	11227.8	1344.1	902.5	622.9	373.1	306.6	297.0	288.3	281.5	279.6
75°	14075.0	10027.4	1076.0	721.2	496.6	315.3	269.0	258.4	251.6	247.8	243.9
77.5°	10346.6	7156.1	832.1	569.8	365.4	257.4	229.5	221.8	215.0	209.2	206.3
80°	3963.7	2772.0	560.2	425.2	268.0	203.4	185.1	181.3	174.5	170.7	170.7
82.5°	1067.3	828.2	298.9	257.4	179.3	148.5	141.7	139.8	134.0	126.3	127.3
85°	432.0	365.4	167.8	141.7	109.9	87.7	95.5	96.4	89.7	80.0	81.0
87.5°	189.9	155.2	93.5	62.7	48.2	33.7	43.4	43.4	39.5	32.8	29.9
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)