

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: P319221

Luminaire Tested: **GAN-SA7D-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43307 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

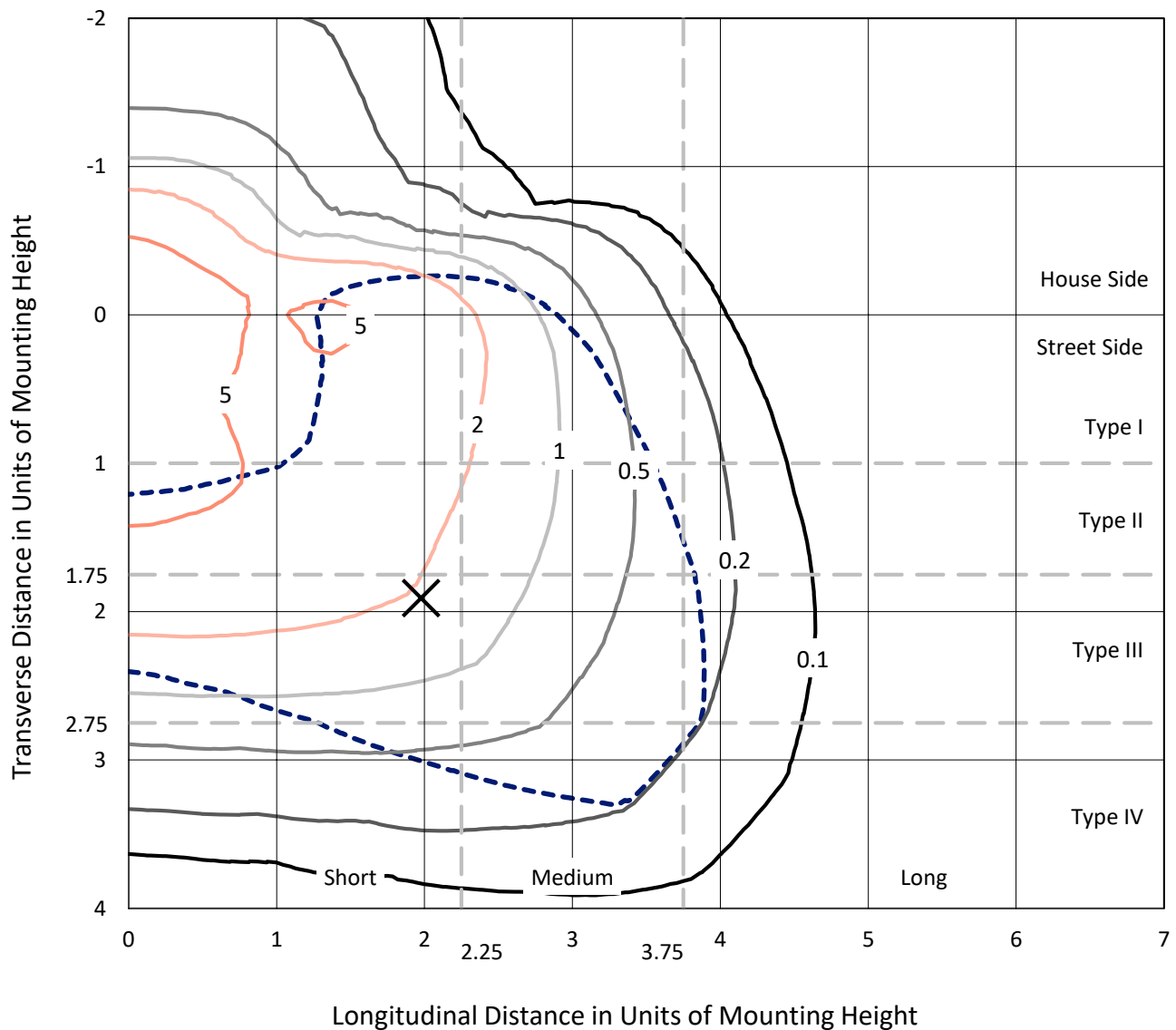
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

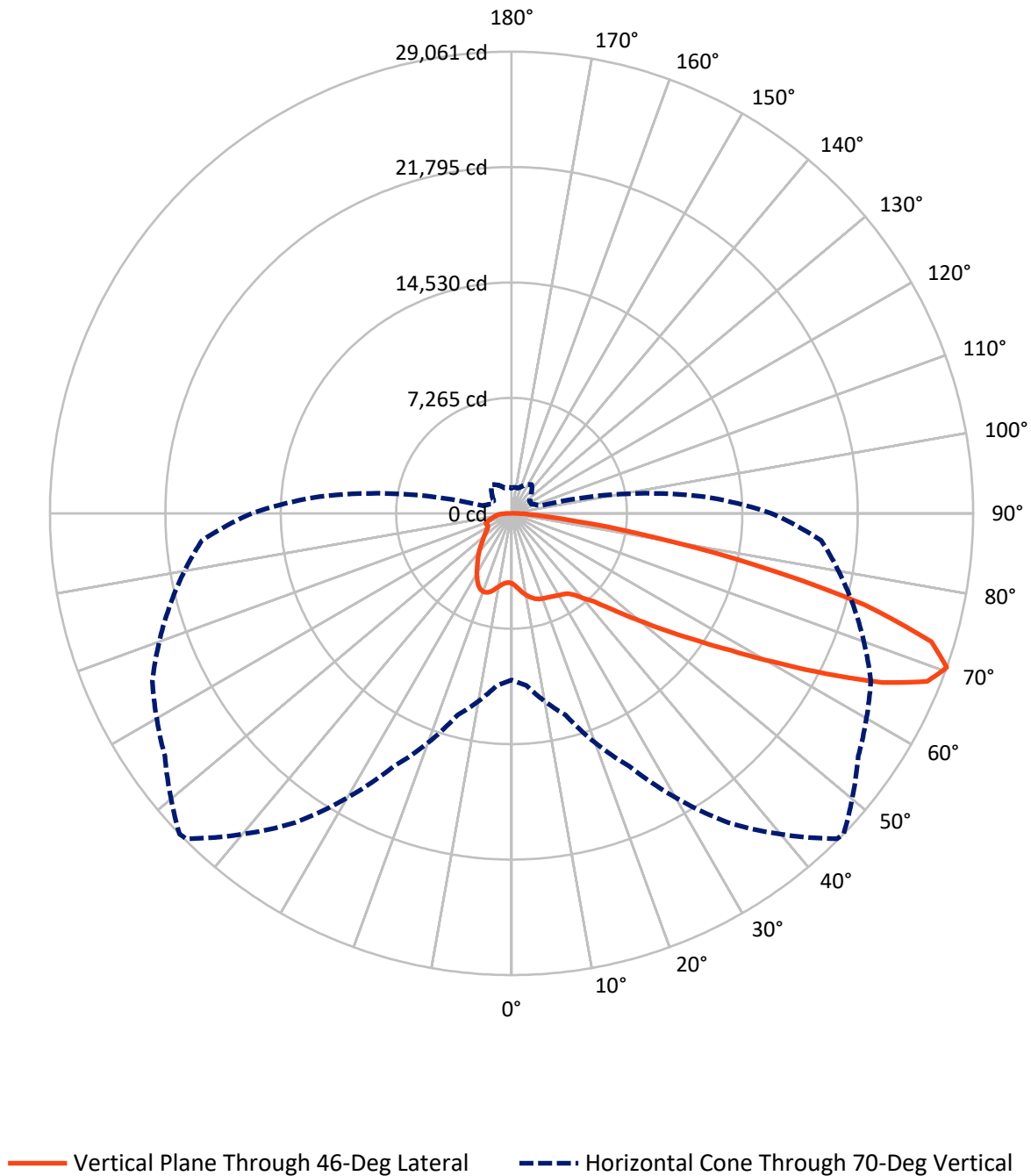
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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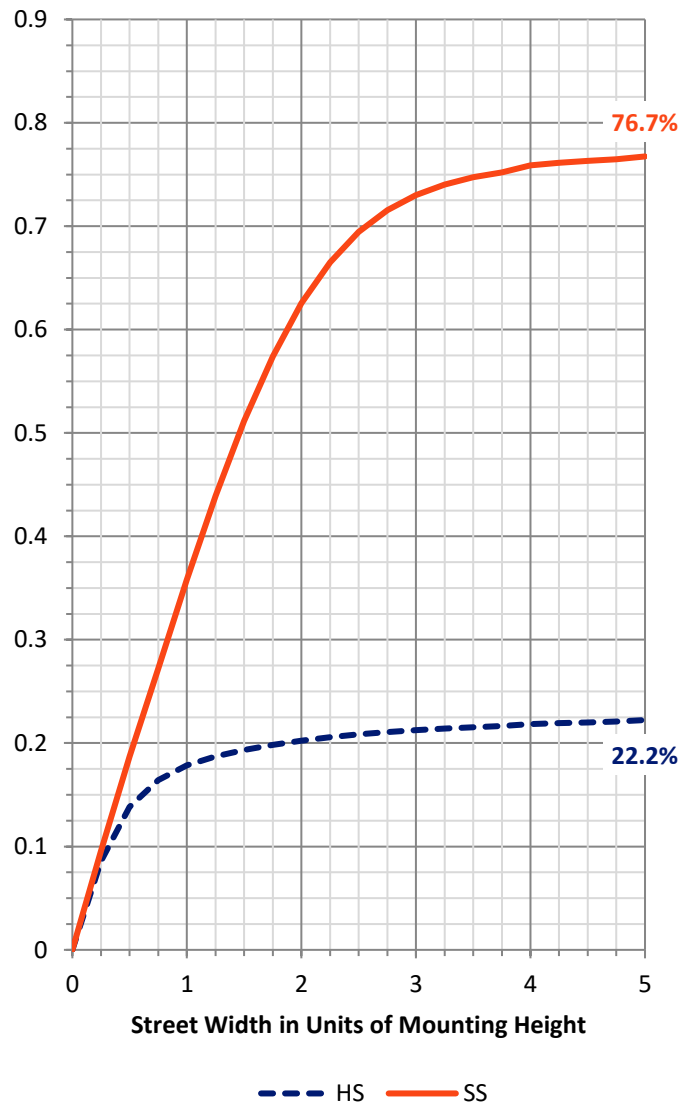
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9925.8	0.0	9925.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	33381.2	0.0	33381.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	43307.0	0.0	43307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.8	1.0
10°-20°	1498.6	3.5
20°-30°	2498.7	5.8
30°-40°	3545.7	8.2
40°-50°	5215.6	12.0
50°-60°	8832.6	20.4
60°-70°	12537.7	29.0
70°-80°	7616.8	17.6
80°-90°	1111.6	2.6
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°	43307.0	100.0
0°-180°	43307.0	100.0

Coefficient of Utilization



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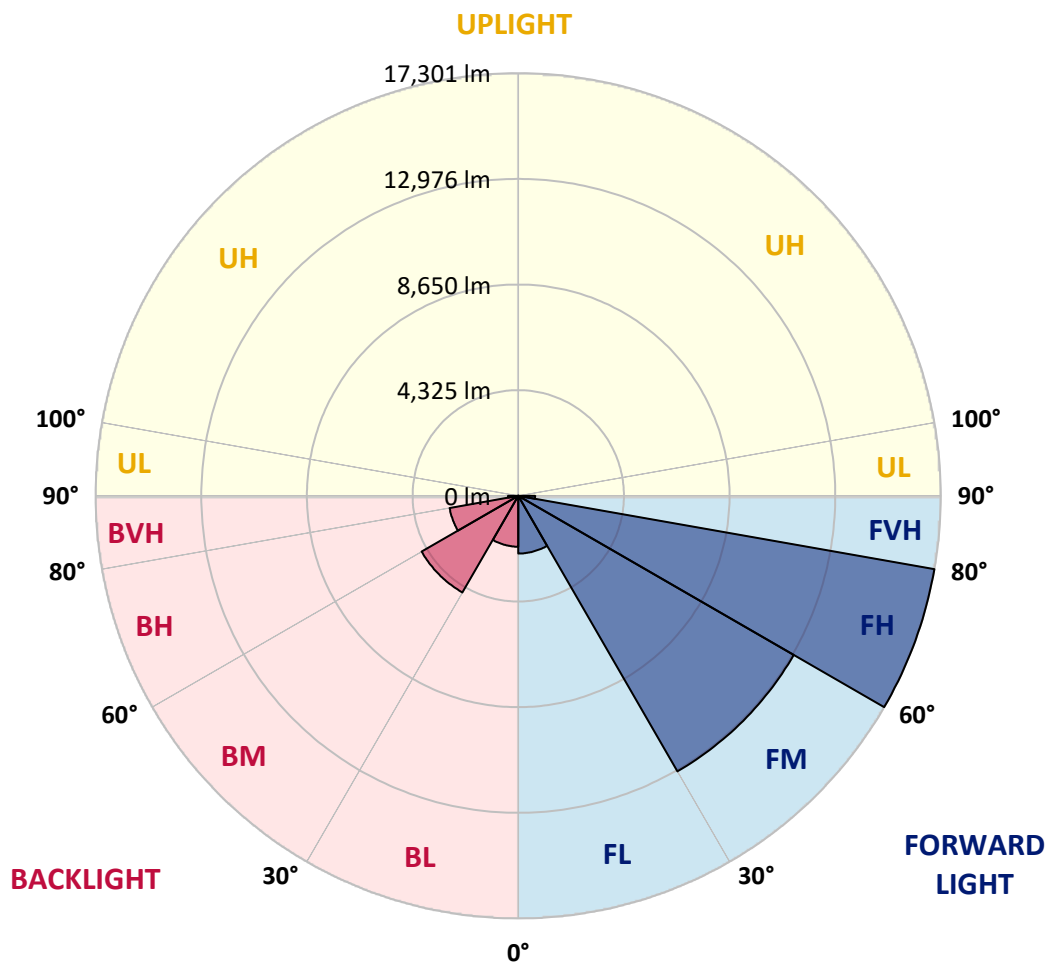
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2363.0	5.5			
FM	(30°-60°)	13024.8	30.1			
FH	(60°-80°)	17300.9	39.9			G5
FVH	(80°-90°)	692.4	1.6			G4/750
BL	(0°-30°)	2084.0	4.8	B3/2500		
BM	(30°-60°)	4569.1	10.6	B3/5000		
BH	(60°-80°)	2853.6	6.6	B4/5000		G4/5000
BVH	(80°-90°)	419.2	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1
2.5°	4633.0	4635.9	4641.9	4627.0	4585.5	4573.7	4569.2	4526.3	4498.1	4456.6	4421.0
5°	5003.5	5006.4	4997.6	4956.1	4864.2	4796.0	4790.1	4692.2	4603.3	4508.5	4437.3
7.5°	5390.3	5394.8	5366.6	5288.0	5159.1	5040.5	5033.1	4899.7	4764.9	4621.1	4514.4
10°	5732.7	5714.9	5668.9	5559.3	5406.6	5261.4	5255.4	5116.1	4960.5	4787.1	4644.8
12.5°	5960.9	5946.1	5886.8	5753.4	5585.9	5452.6	5440.7	5311.8	5160.6	4970.9	4800.4
15°	6086.9	6097.3	6017.2	5866.1	5703.0	5590.4	5580.0	5488.1	5353.3	5162.1	4966.4
17.5°	6103.2	6112.1	6035.0	5885.3	5751.9	5674.9	5670.4	5609.7	5511.8	5328.1	5123.5
20°	6008.3	6014.3	5950.5	5827.5	5740.1	5716.4	5714.9	5688.2	5615.6	5452.6	5254.0
22.5°	5870.5	5874.9	5829.0	5740.1	5710.4	5747.5	5757.9	5747.5	5695.6	5543.0	5356.2
25°	5836.4	5833.4	5786.0	5695.6	5720.8	5799.4	5812.7	5817.1	5781.6	5648.2	5486.6
27.5°	6000.9	5990.5	5900.1	5754.9	5771.2	5866.1	5883.8	5926.8	5904.6	5787.5	5634.8
30°	6476.7	6458.9	6273.6	5980.2	5900.1	5949.0	5971.3	6039.5	6043.9	5946.1	5832.0
32.5°	7279.9	7257.7	6925.7	6401.1	6118.0	6033.5	6054.3	6156.5	6211.4	6135.8	6012.8
35°	8295.2	8270.0	7834.2	7116.9	6482.6	6195.1	6209.9	6291.4	6401.1	6294.4	6131.3
37.5°	9353.4	9292.6	8873.2	7958.7	7062.1	6540.4	6540.4	6550.8	6602.6	6380.3	6270.7
40°	10405.6	10344.9	9965.5	8948.8	7812.0	7084.3	7050.2	6820.5	6779.0	6587.8	6550.8
42.5°	11383.8	11366.0	11142.2	10067.7	8692.4	7619.3	7571.9	7182.1	7191.0	7072.5	7073.9
45°	12424.2	12424.2	12241.9	11197.1	9718.0	8478.9	8431.5	7858.0	7946.9	7892.0	8024.0
47.5°	13273.5	13300.1	13274.9	12373.8	10911.0	9571.2	9485.3	8794.6	9043.6	9231.8	9615.7
50°	14140.5	14182.0	14186.4	13664.7	12353.1	10869.5	10771.7	10038.1	10593.9	11133.3	11887.7
52.5°	15398.8	15492.1	15120.1	14952.6	14119.7	12410.9	12314.6	11637.2	12565.0	13322.4	14622.1
55°	16565.1	16483.6	16218.3	16322.1	16010.9	14165.7	14093.0	13498.7	14761.5	15745.6	17433.6
57.5°	17196.5	17190.6	17457.4	17902.0	18050.2	16329.5	16268.7	15690.7	17238.0	17977.6	20073.2
60°	17937.5	17947.9	18608.9	19618.2	20228.8	19023.9	18997.2	18558.5	19643.4	20061.4	22143.7
62.5°	18041.3	18228.0	19366.3	21103.3	22268.2	22171.8	22231.1	21141.8	21795.4	21724.2	23689.5
65°	16848.2	17094.2	19154.3	21552.3	24295.6	25614.7	25669.5	23739.9	23492.4	23145.6	24242.3
67.5°	14402.8	14767.4	17005.3	20575.6	24964.1	28159.4	28236.5	25754.0	24900.3	23627.2	22911.4
70°	10481.2	10885.8	13138.6	17573.0	23772.5	28973.1	29060.5	26644.7	24953.7	22256.3	19558.9
72.5°	6331.4	6648.6	8505.6	12937.0	20064.3	27491.0	27646.6	25515.4	22782.4	18852.0	14442.8
75°	2780.4	2987.9	4112.8	7454.8	14364.3	22745.4	22939.5	21839.8	18511.1	13700.3	8536.7
77.5°	1184.2	1243.5	1686.6	3238.3	8120.3	15542.5	15809.3	15957.5	12559.1	7454.8	3607.4
80°	738.1	761.8	954.5	1465.8	3800.0	8729.4	9016.9	9388.9	6236.6	2740.4	1259.8
82.5°	449.1	475.7	634.3	886.3	1978.6	3957.1	4095.0	4357.3	2420.2	1184.2	652.1
85°	269.7	289.0	388.3	560.2	1126.4	1556.2	1554.7	1719.2	1139.7	761.8	343.8
87.5°	128.9	143.8	207.5	290.5	567.6	583.9	546.9	619.5	692.1	499.5	173.4
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°	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1	4412.1
2.5°	4409.2	4403.2	4384.0	4369.2	4366.2	4357.3	4349.9	4354.3	4360.3	4361.7	4361.7
5°	4407.7	4391.4	4366.2	4355.8	4369.2	4386.9	4409.2	4438.8	4456.6	4469.9	4478.8
7.5°	4478.8	4447.7	4419.5	4413.6	4440.3	4487.7	4538.1	4600.4	4643.3	4673.0	4678.9
10°	4597.4	4558.9	4530.7	4536.6	4584.1	4652.2	4723.4	4803.4	4868.6	4908.6	4911.6
12.5°	4733.7	4696.7	4670.0	4695.2	4773.8	4856.8	4930.9	5000.5	5059.8	5099.8	5099.8
15°	4890.8	4864.2	4833.0	4890.8	4997.6	5071.7	5102.8	5136.9	5169.5	5199.1	5193.2
17.5°	5042.0	5016.8	5000.5	5068.7	5179.9	5213.9	5193.2	5168.0	5168.0	5184.3	5187.3
20°	5172.4	5150.2	5160.6	5227.3	5285.1	5249.5	5172.4	5092.4	5059.8	5068.7	5077.6
22.5°	5286.6	5276.2	5307.3	5338.4	5296.9	5172.4	5030.2	4922.0	4882.0	4879.0	4882.0
25°	5419.9	5418.5	5457.0	5400.7	5216.9	4987.2	4796.0	4690.8	4668.5	4686.3	4716.0
27.5°	5585.9	5602.2	5621.5	5415.5	5053.9	4707.1	4512.9	4440.3	4462.5	4505.5	4533.7
30°	5797.9	5842.3	5800.8	5378.4	4819.7	4386.9	4201.7	4180.9	4241.7	4302.5	4332.1
32.5°	6003.9	6073.5	5972.8	5282.1	4517.4	4047.5	3903.8	3897.9	3972.0	4031.2	4072.7
35°	6169.9	6307.7	6101.7	5090.9	4167.6	3734.8	3629.6	3589.6	3616.3	3685.9	3733.3
37.5°	6386.3	6616.0	6190.6	4799.0	3788.2	3476.9	3353.9	3262.0	3238.3	3266.5	3290.2
40°	6782.0	7085.8	6232.1	4391.4	3417.7	3219.1	3094.6	2959.7	2866.3	2798.2	2799.6
42.5°	7428.2	7697.9	6205.4	3896.4	3075.3	2967.1	2826.3	2670.7	2519.5	2365.4	2353.5
45°	8477.5	8607.9	6125.4	3371.7	2774.4	2703.3	2571.4	2415.8	2214.2	2039.3	2023.0
47.5°	10156.7	9867.7	6000.9	2913.8	2509.2	2479.5	2358.0	2178.6	1965.2	1824.4	1812.6
50°	12446.5	11686.2	5940.2	2549.2	2275.0	2283.9	2184.6	1994.9	1793.3	1689.6	1677.7
52.5°	15185.3	13804.0	6057.2	2267.6	2086.8	2117.9	2043.8	1865.9	1697.0	1615.5	1603.6
55°	18026.5	15997.5	6183.2	2063.0	1908.9	1969.7	1944.5	1797.8	1645.1	1569.5	1559.1
57.5°	20458.6	17635.2	5931.3	1897.1	1750.3	1845.2	1867.4	1754.8	1618.4	1550.2	1538.4
60°	21989.5	18294.7	5270.3	1741.4	1624.4	1745.9	1823.0	1742.9	1628.8	1622.9	1614.0
62.5°	22715.8	18236.9	4278.7	1618.4	1545.8	1702.9	1855.6	1809.6	1747.4	1800.7	1805.2
65°	22389.7	17365.5	3186.5	1536.9	1489.5	1719.2	1953.4	1935.6	1781.5	1834.8	1842.2
67.5°	20243.7	15286.1	2359.5	1465.8	1427.2	1765.2	2131.2	1977.1	1714.8	1753.3	1729.6
70°	16362.1	12118.9	1820.0	1385.7	1363.5	1759.2	2211.3	1951.9	1642.1	1651.0	1587.3
72.5°	11283.0	8264.0	1480.6	1311.6	1271.6	1603.6	2154.9	1889.6	1581.4	1513.2	1428.7
75°	6135.8	4435.8	1258.3	1234.6	1110.1	1408.0	2051.2	1845.2	1526.5	1436.1	1388.7
77.5°	2414.3	1840.7	1092.3	1129.3	970.8	1243.5	1935.6	1760.7	1451.0	1332.4	1308.7
80°	985.6	939.6	905.5	976.7	834.4	1087.8	1796.3	1661.4	1360.5	1236.1	1188.6
82.5°	558.7	583.9	704.0	770.7	677.3	1001.9	1729.6	1581.4	1252.4	1107.1	1050.8
85°	286.0	342.4	490.6	552.8	498.0	852.2	1593.2	1384.3	1004.8	847.7	852.2
87.5°	137.8	191.2	309.8	346.8	323.1	616.5	1190.1	1003.4	782.5	619.5	600.2
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)