

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: P318562

Luminaire Tested: **GAN-SA8B-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36402 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

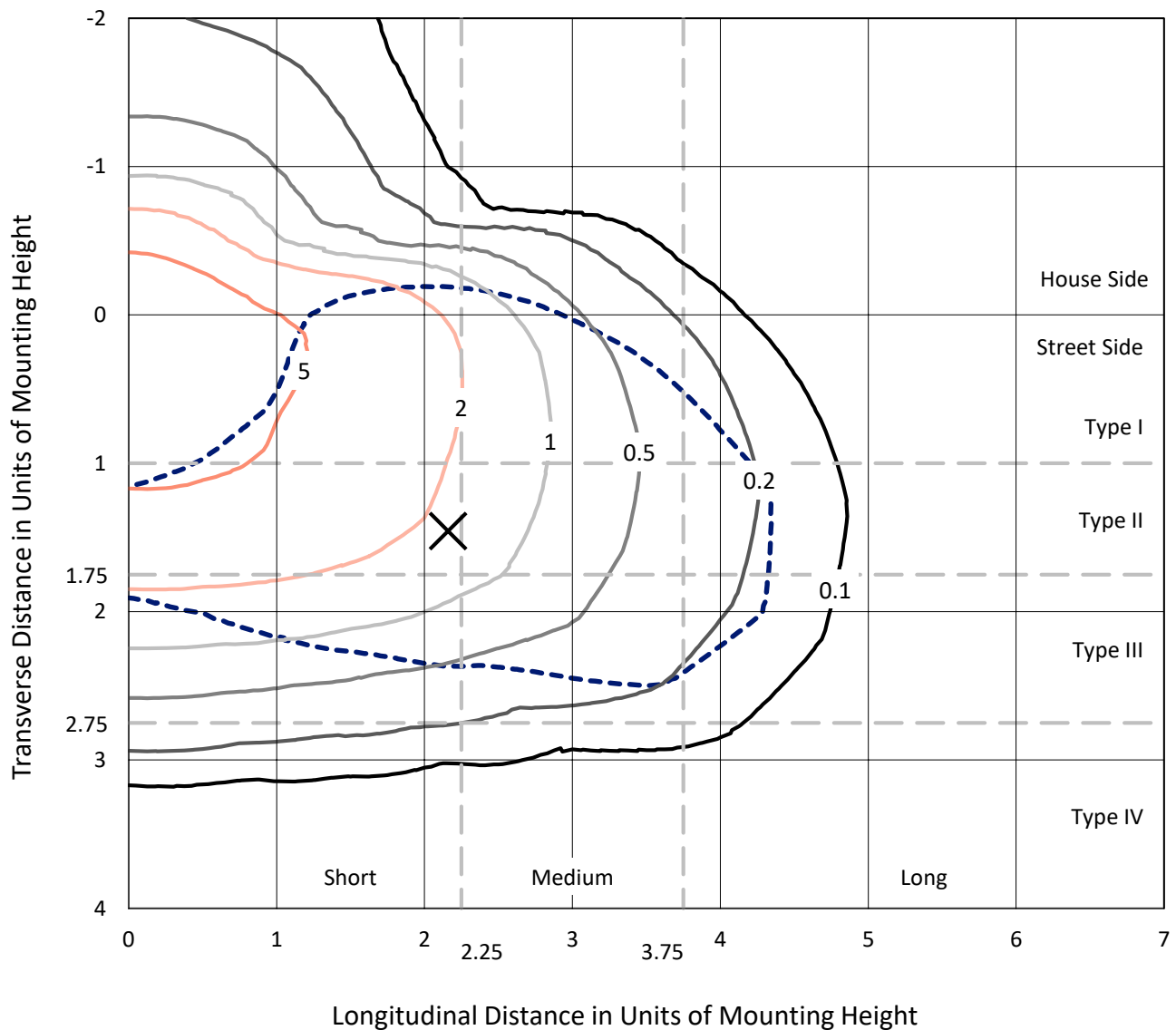
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

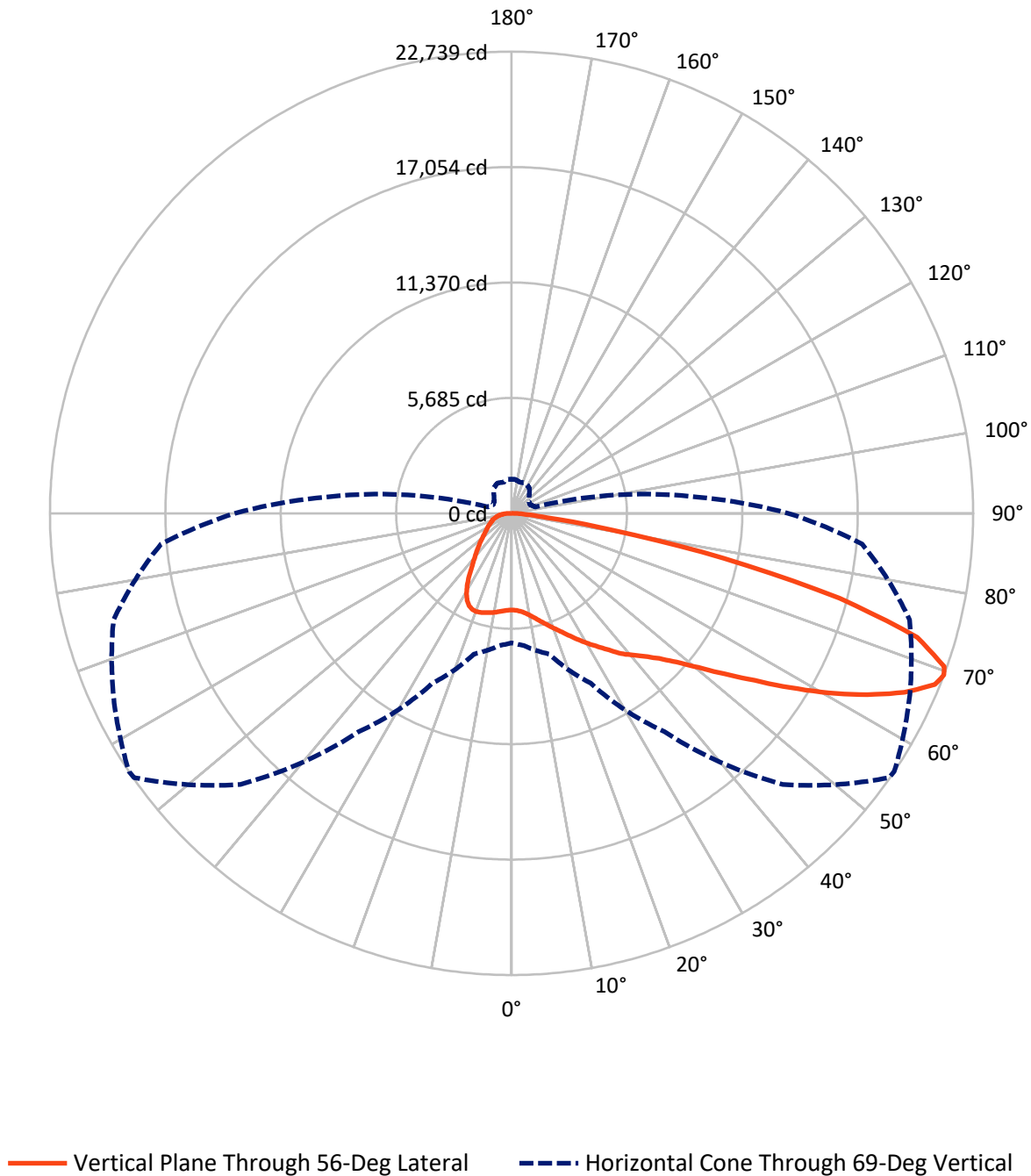
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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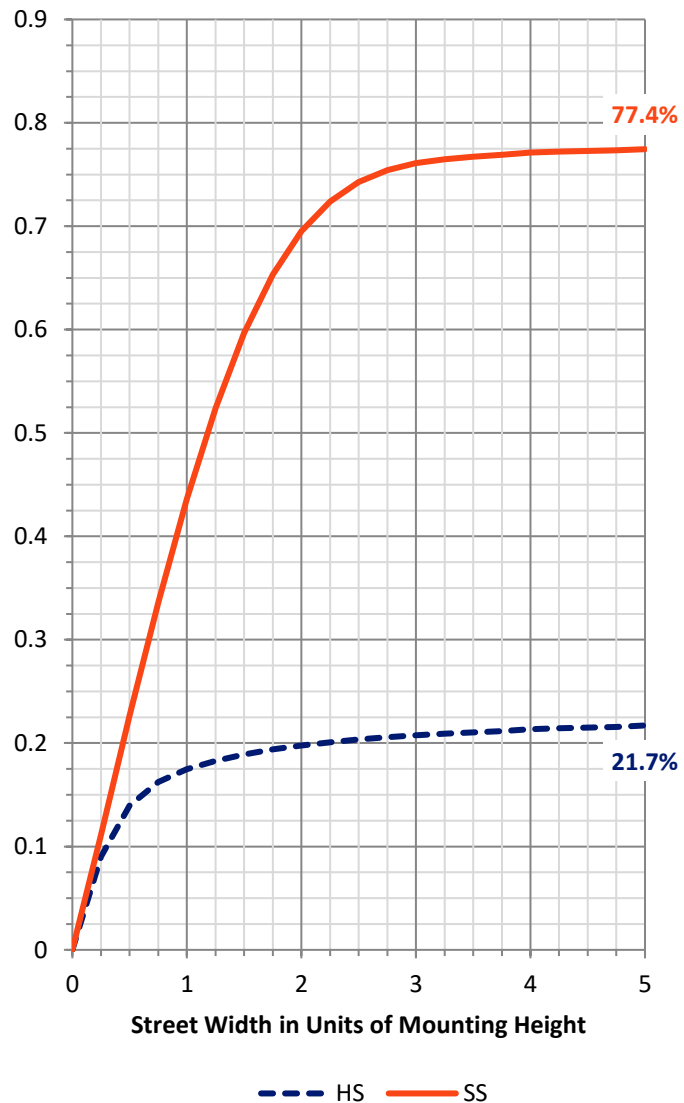
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8106.7	0.0	8106.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	28295.3	0.0	28295.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	36402.0	0.0	36402.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.4	1.3
10°-20°	1503.0	4.1
20°-30°	2623.7	7.2
30°-40°	3768.8	10.4
40°-50°	5215.8	14.3
50°-60°	7641.9	21.0
60°-70°	9316.9	25.6
70°-80°	5151.0	14.2
80°-90°	713.4	2.0
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°	36402.0	100.0
0°-180°	36402.0	100.0

Coefficient of Utilization



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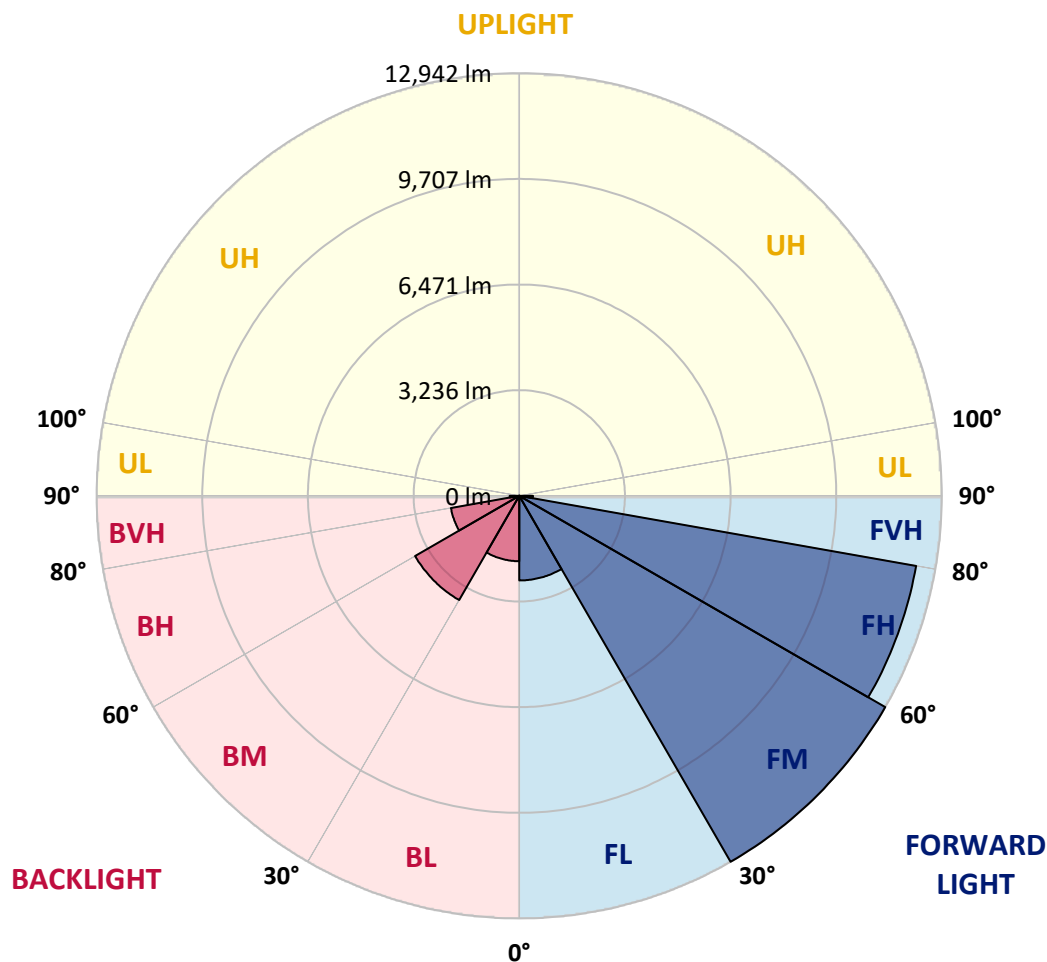
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2590.7	7.1			
FM	(30°-60°)	12942.3	35.6			
FH	(60°-80°)	12342.1	33.9			G5
FVH	(80°-90°)	420.2	1.2			G3/500
BL	(0°-30°)	2003.3	5.5	B3/2500		
BM	(30°-60°)	3684.3	10.1	B3/5000		
BH	(60°-80°)	2125.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	293.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0
2.5°	4789.1	4794.1	4790.4	4800.4	4789.1	4796.6	4790.4	4790.4	4786.6	4775.3	4762.8
5°	4864.4	4874.4	4868.1	4878.1	4864.4	4866.9	4855.6	4855.6	4844.3	4820.5	4795.4
7.5°	4982.2	4993.5	4988.5	4998.5	4979.7	4979.7	4964.7	4963.4	4940.8	4902.0	4873.1
10°	5122.7	5137.7	5132.7	5147.8	5132.7	5137.7	5122.7	5122.7	5092.6	5037.4	5001.0
12.5°	5327.1	5345.9	5332.1	5330.8	5324.6	5334.6	5322.1	5319.6	5292.0	5216.7	5166.6
15°	5600.5	5620.5	5591.7	5589.2	5554.1	5550.3	5550.3	5546.5	5529.0	5438.7	5355.9
17.5°	5915.2	5921.5	5896.4	5856.3	5811.1	5782.3	5778.5	5788.6	5788.6	5683.2	5551.6
20°	6223.7	6235.0	6214.9	6169.8	6112.1	6069.5	6039.4	6059.4	6058.2	5932.8	5745.9
22.5°	6559.8	6586.1	6556.0	6498.3	6430.6	6383.0	6330.3	6347.9	6349.1	6194.9	5936.5
25°	6994.9	6971.1	6952.3	6870.8	6774.2	6725.3	6676.4	6694.0	6689.0	6477.0	6133.4
27.5°	7379.9	7384.9	7359.9	7273.3	7161.7	7053.9	7051.4	7062.7	7043.8	6770.5	6319.0
30°	7827.6	7830.1	7795.0	7717.3	7595.6	7456.4	7423.8	7442.6	7402.5	7048.9	6514.6
32.5°	8272.8	8285.3	8246.4	8152.4	8054.6	7885.3	7820.1	7832.6	7732.3	7333.5	6716.5
35°	8662.8	8680.3	8667.8	8605.1	8498.5	8353.0	8275.3	8267.8	8143.6	7682.1	6983.6
37.5°	9060.3	9076.6	9062.8	9010.1	8967.5	8813.3	8771.9	8771.9	8556.2	8038.3	7323.5
40°	9469.1	9494.2	9477.9	9405.2	9368.8	9298.6	9199.5	9175.7	8942.4	8465.9	7877.8
42.5°	9849.1	9881.7	9946.9	9904.3	9830.3	9840.3	9640.9	9628.4	9457.8	9097.9	8573.7
45°	10388.3	10436.0	10546.3	10513.7	10498.7	10443.5	10206.5	10195.2	10130.0	9948.2	9437.8
47.5°	10976.5	11041.7	11241.1	11247.3	11409.1	11305.0	10982.7	10943.9	10958.9	10966.4	10492.4
50°	11518.2	11589.7	11917.0	12071.2	12452.4	12475.0	11959.6	11924.5	11983.4	12156.5	11721.3
52.5°	11950.8	12041.1	12449.9	12926.5	13579.8	13765.4	13162.2	13135.9	13179.8	13478.2	13110.8
55°	12268.1	12365.9	12811.1	13678.9	14722.2	15049.5	14546.7	14521.6	14549.2	14929.1	14621.9
57.5°	12342.1	12365.9	13011.7	14185.5	15686.6	16472.8	16240.8	16190.7	16055.2	16386.3	16289.7
60°	11994.7	12090.0	12846.2	14363.6	16432.7	17876.1	18011.5	17948.8	17568.8	17839.7	17762.0
62.5°	11290.0	11460.5	12228.0	14092.7	16724.9	19022.3	19748.3	19673.1	19018.5	19194.1	18820.4
65°	10138.8	10211.5	11017.8	13158.5	16353.7	19755.9	21297.1	21259.4	20435.5	20160.9	19016.0
67.5°	8079.7	8216.4	8901.0	11205.9	14835.1	19669.3	22494.6	22490.9	21361.0	20519.6	18322.5
69°	6383.0	6524.7	7176.8	9230.9	13127.1	18878.0	22695.3	22739.2	21621.8	20301.4	17331.8
70°	5088.8	5253.1	5700.8	7774.9	11611.0	17834.7	22528.5	22607.5	21571.7	19941.5	16417.7
72.5°	2165.7	2298.6	2617.1	4007.9	7076.4	13317.7	20598.6	20897.0	20409.2	18251.0	13568.5
75°	945.5	986.9	1131.1	1634.0	3141.3	7248.2	16136.8	16688.5	17451.0	15427.0	10107.4
77.5°	692.2	709.8	788.8	959.3	1409.5	2737.5	10377.0	10698.1	12585.4	11226.0	6199.9
80°	535.5	548.0	609.5	704.8	920.5	1107.3	4732.7	5008.6	7076.4	5766.0	2582.0
82.5°	426.4	435.1	477.8	519.2	635.8	670.9	1571.3	1743.1	2612.1	1592.6	683.4
85°	396.3	406.3	421.4	378.7	407.6	393.8	679.7	711.0	788.8	625.8	285.9
87.5°	179.3	211.9	417.6	294.7	216.9	173.1	278.4	290.9	327.3	328.6	126.7
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°	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0	4759.0
2.5°	4770.3	4766.5	4772.8	4757.8	4776.6	4775.3	4769.0	4771.6	4784.1	4782.8	4784.1
5°	4799.1	4796.6	4804.2	4792.9	4815.4	4823.0	4824.2	4835.5	4849.3	4853.1	4853.1
7.5°	4871.9	4871.9	4875.6	4860.6	4875.6	4874.4	4868.1	4879.4	4893.2	4894.4	4893.2
10°	4997.3	4998.5	4992.3	4953.4	4940.8	4907.0	4875.6	4876.9	4894.4	4908.2	4912.0
12.5°	5155.3	5150.3	5122.7	5051.2	4998.5	4929.6	4897.0	4895.7	4913.3	4924.5	4928.3
15°	5335.9	5322.1	5250.6	5134.0	5041.2	4973.5	4920.8	4908.2	4898.2	4885.7	4886.9
17.5°	5506.4	5475.1	5355.9	5194.2	5096.3	5006.1	4904.5	4823.0	4766.5	4733.9	4723.9
20°	5679.5	5618.0	5446.2	5250.6	5126.4	4962.2	4766.5	4601.0	4498.2	4450.5	4441.7
22.5°	5837.5	5738.4	5530.2	5309.5	5102.6	4814.2	4507.0	4266.2	4123.2	4059.3	4064.3
25°	5991.7	5853.8	5618.0	5350.9	4982.2	4553.4	4145.8	3849.8	3684.3	3612.8	3610.3
27.5°	6127.2	5970.4	5713.3	5317.1	4757.8	4182.2	3718.2	3429.8	3291.8	3230.4	3220.3
30°	6282.7	6117.1	5840.0	5187.9	4429.2	3753.3	3300.6	3097.4	2999.6	2938.2	2926.9
32.5°	6472.0	6316.5	5944.1	4953.4	4009.1	3305.6	2974.5	2832.8	2743.8	2674.8	2662.3
35°	6747.9	6579.9	5970.4	4617.3	3547.6	2952.0	2735.0	2589.6	2469.2	2380.1	2371.4
37.5°	7094.0	6909.7	5910.2	4182.2	3099.9	2722.5	2535.6	2356.3	2199.6	2074.2	2054.1
40°	7593.1	7314.7	5743.4	3680.6	2770.1	2545.7	2341.3	2136.9	1942.5	1795.8	1766.9
42.5°	8192.5	7790.0	5487.6	3181.5	2528.1	2366.3	2148.1	1894.8	1709.2	1605.1	1590.1
45°	8955.0	8284.1	5132.7	2745.1	2289.8	2187.0	1940.0	1706.7	1591.4	1514.9	1502.3
47.5°	9825.3	8838.3	4760.3	2390.2	2087.9	2019.0	1773.2	1622.7	1531.2	1471.0	1459.7
50°	10894.9	9464.1	4365.3	2099.2	1884.8	1817.1	1694.2	1576.3	1503.6	1457.2	1445.9
52.5°	12101.3	10170.1	4080.6	1869.7	1716.8	1667.8	1652.8	1551.2	1492.3	1457.2	1445.9
55°	13400.5	10888.7	3773.4	1676.6	1571.3	1585.1	1625.2	1553.7	1513.6	1471.0	1454.7
57.5°	14700.9	11631.1	3431.0	1513.6	1455.9	1523.6	1606.4	1558.7	1524.9	1483.5	1468.5
60°	15729.2	12101.3	2900.6	1376.9	1364.4	1455.9	1561.3	1521.1	1477.2	1478.5	1476.0
62.5°	16209.5	12076.2	2314.9	1255.3	1272.8	1364.4	1488.5	1462.2	1425.8	1474.7	1478.5
65°	15939.9	11474.3	1802.0	1144.9	1175.0	1269.1	1413.3	1433.3	1445.9	1539.9	1552.5
67.5°	14808.7	10303.0	1395.7	1048.4	1086.0	1203.9	1420.8	1561.3	1577.6	1676.6	1675.4
69°	13638.7	9204.5	1212.6	998.2	1042.1	1220.2	1518.6	1642.8	1581.3	1686.7	1671.6
70°	12658.1	8335.5	1114.8	964.3	1022.0	1249.0	1583.8	1641.5	1562.5	1652.8	1627.7
72.5°	9748.8	5996.7	945.5	901.6	954.3	1195.1	1602.6	1605.1	1518.6	1536.2	1493.5
75°	6686.4	3789.7	825.1	816.4	851.5	1077.2	1542.4	1533.7	1404.5	1379.4	1344.3
77.5°	3686.8	1924.9	701.0	734.9	758.7	954.3	1402.0	1389.5	1282.9	1230.2	1217.7
80°	1422.1	842.7	591.9	653.3	668.4	826.4	1228.9	1217.7	1128.6	1060.9	1042.1
82.5°	536.7	441.4	489.1	565.6	560.5	682.2	1040.8	1034.6	948.0	849.0	818.9
85°	248.3	264.6	387.5	466.5	430.1	505.4	832.7	844.0	738.6	620.7	620.7
87.5°	105.3	148.0	274.6	352.4	289.7	341.1	610.7	583.1	535.5	371.2	348.6
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)