

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: McGRAW-EDISON

Report Number: P530455

Luminaire Tested: **GALN-SA5C-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

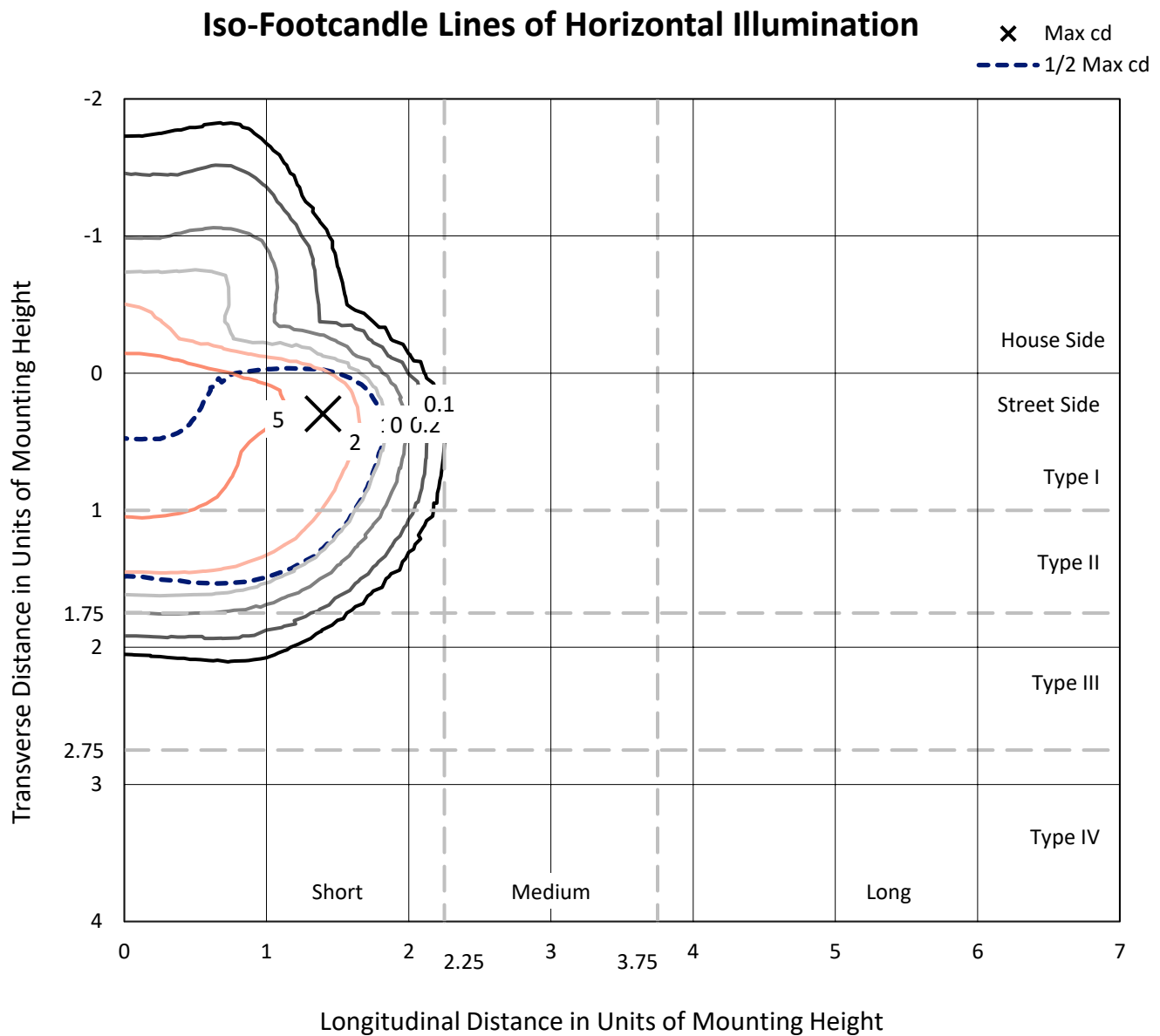
Lumens per Lamp: N/A
Luminaire Lumens: 17015 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 269
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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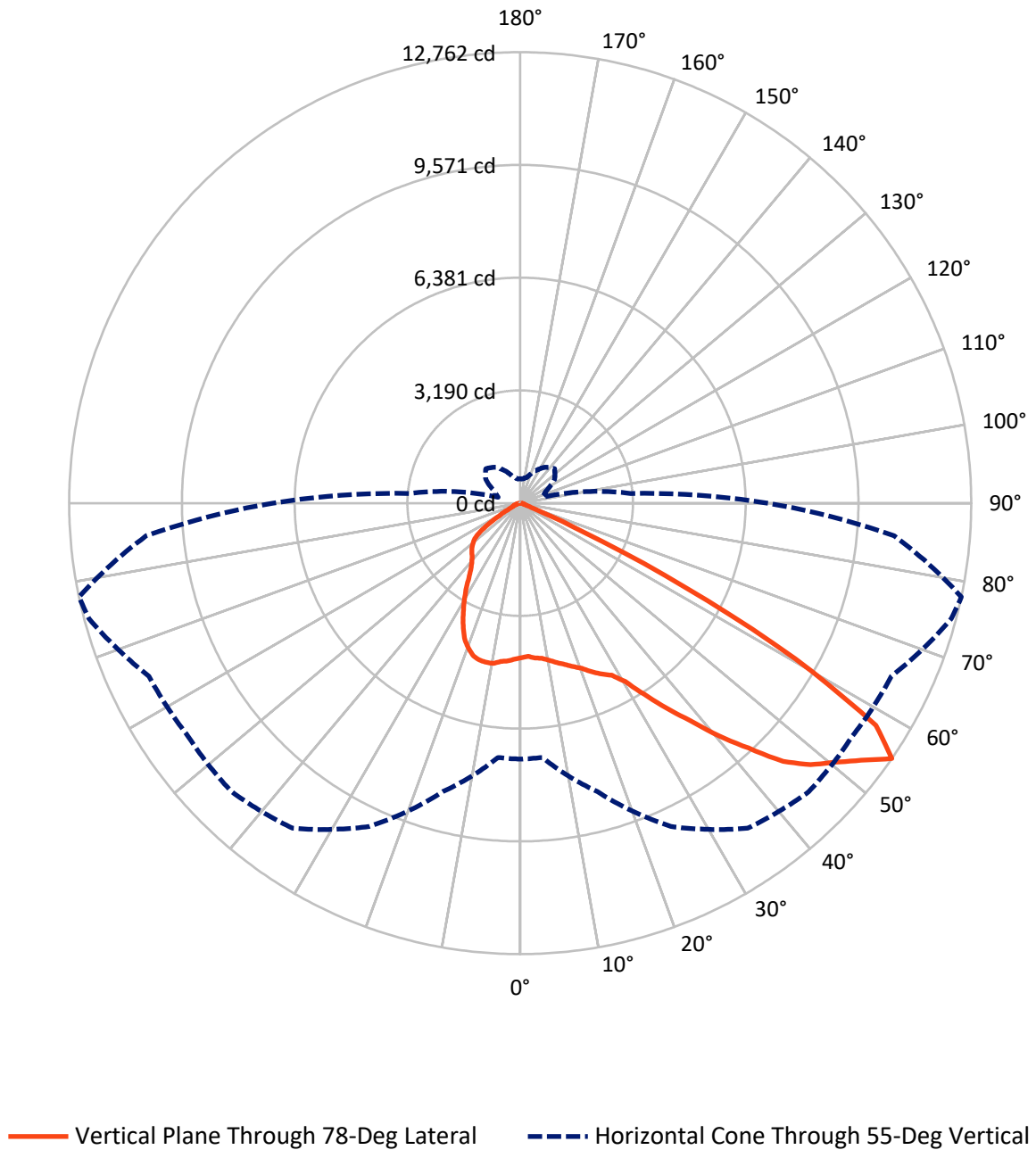


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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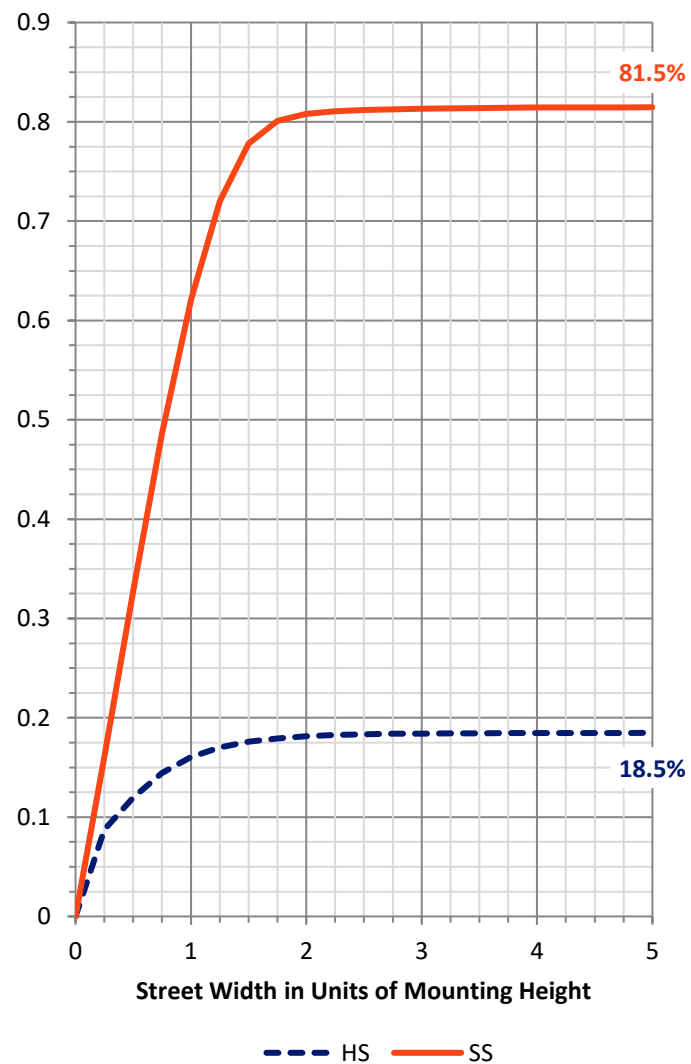
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3160.3	0.0	3160.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	13854.7	0.0	13854.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	17015.0	0.0	17015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.1	2.3
10°-20°	1032.3	6.1
20°-30°	1809.5	10.6
30°-40°	2983.6	17.5
40°-50°	4341.6	25.5
50°-60°	4919.4	28.9
60°-70°	1406.5	8.3
70°-80°	109.2	0.6
80°-90°	22.7	0.1
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°	17015.0	100.0
0°-180°	17015.0	100.0

Coefficient of Utilization



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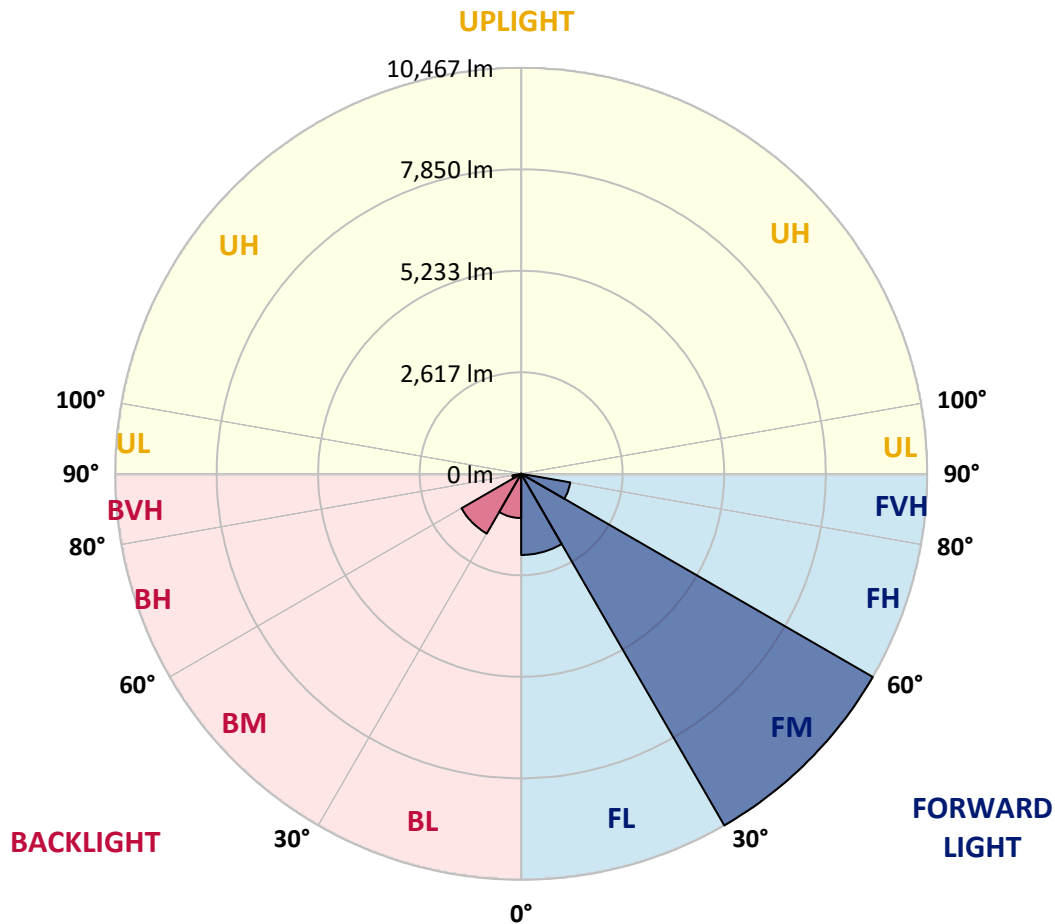
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2091.6	12.3			
FM	(30°-60°)	10466.9	61.5			
FH	(60°-80°)	1285.1	7.6			G1/1800
FVH	(80°-90°)	11.1	0.1			G1/100
BL	(0°-30°)	1140.3	6.7	B3/2500		
BM	(30°-60°)	1777.7	10.4	B2/2500		
BH	(60°-80°)	230.7	1.4	B1/500		G1/500
BVH	(80°-90°)	11.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4374.6	4374.6	4374.6	4374.6	4374.6	4374.6	4374.6	4374.6	4374.6	4374.6	4374.6
2.5°	4112.9	4152.5	4158.6	4207.2	4204.2	4286.3	4310.7	4313.7	4368.5	4341.1	4411.1
5°	3997.3	3976.0	3966.9	4052.1	4076.4	4149.4	4210.3	4246.8	4359.4	4398.9	4471.9
7.5°	3893.9	3893.9	3900.0	3976.0	3966.9	4061.2	4125.1	4237.7	4401.9	4435.4	4523.6
10°	3793.5	3757.0	3802.6	3881.7	3948.7	3991.3	4125.1	4231.6	4423.2	4520.6	4642.3
12.5°	3741.8	3760.1	3766.1	3823.9	3897.0	4024.7	4097.7	4274.2	4575.3	4633.1	4764.0
15°	4067.3	4030.8	3942.6	3890.9	3951.7	4012.6	4195.1	4374.6	4654.4	4736.6	4882.6
17.5°	4444.5	4414.1	4341.1	4201.2	4064.3	4176.8	4319.8	4484.1	4739.6	4861.3	5077.3
20°	4937.4	4888.7	4815.7	4541.9	4423.2	4301.6	4453.7	4648.4	4879.6	4989.1	5211.1
22.5°	5524.5	5524.5	5360.2	5028.6	4782.2	4666.6	4730.5	4843.1	5034.7	5183.8	5402.8
25°	6136.0	6117.7	5968.6	5624.9	5208.1	5071.2	5144.2	5223.3	5275.0	5357.2	5503.2
27.5°	6835.6	6729.2	6540.6	6160.3	5792.2	5527.5	5606.6	5536.7	5472.8	5515.4	5725.3
30°	7310.2	7377.1	7136.8	6771.8	6425.0	6129.9	6145.1	6084.2	5792.2	5853.0	5977.8
32.5°	7803.0	7845.6	7711.8	7511.0	7164.2	6820.4	6695.7	6644.0	6425.0	6452.3	6330.6
35°	8213.7	8295.9	8177.2	8089.0	7988.6	7711.8	7368.0	7535.3	7182.4	7115.5	6799.1
37.5°	8590.9	8566.6	8706.5	8615.3	8594.0	8399.3	8022.1	8055.5	7818.2	7803.0	7438.0
40°	8928.6	8934.7	9126.4	9168.9	9083.8	8737.0	8189.4	8454.0	8645.7	8664.0	8195.5
42.5°	9208.5	9290.6	9454.9	9798.7	9670.9	9092.9	8362.8	8651.8	9363.6	9476.2	8913.4
45°	9451.9	9619.2	9823.0	10130.3	10057.2	9597.9	8794.8	9059.4	10130.3	10425.3	9588.8
47.5°	9467.1	9686.1	9908.2	10364.5	10455.8	9868.6	9242.0	9704.4	10738.7	11058.1	10081.6
50°	9406.2	9521.8	9966.0	10461.8	10668.7	10309.7	9868.6	10245.9	11328.8	11529.6	10331.0
52.5°	8685.2	8773.5	9664.8	10553.1	11052.0	10808.6	10699.1	11000.3	11931.2	12080.3	10565.3
55°	7240.2	7225.0	8451.0	10093.7	11228.5	11547.9	11481.0	11587.4	12627.8	12761.7	10623.1
57.5°	4952.6	5229.4	6288.1	8405.4	10148.5	11374.5	11444.5	11268.0	11815.6	11867.3	9260.2
60°	2671.0	2786.6	3638.4	5609.7	7727.0	9269.3	9451.9	9132.4	9089.9	8943.8	6610.5
62.5°	1061.7	1119.5	1603.2	2777.5	4210.3	5634.0	6026.4	5895.6	5615.8	5232.4	3422.4
65°	505.0	541.5	797.0	1299.0	1867.9	2348.5	2740.9	2862.6	2111.2	1901.3	1128.6
67.5°	343.8	371.1	581.0	742.3	666.2	696.6	906.6	842.7	495.9	422.9	313.3
70°	261.6	279.9	465.4	505.0	298.1	209.9	234.2	219.0	203.8	206.9	203.8
72.5°	185.6	200.8	340.7	298.1	130.8	97.3	124.7	149.1	149.1	149.1	146.0
75°	112.6	127.8	197.7	115.6	51.7	51.7	79.1	100.4	106.5	109.5	103.4
77.5°	57.8	73.0	66.9	33.5	33.5	39.5	57.8	70.0	76.1	76.1	73.0
80°	12.2	12.2	12.2	18.3	33.5	42.6	57.8	63.9	73.0	73.0	66.9
82.5°	0.0	3.0	9.1	18.3	30.4	39.5	54.8	63.9	73.0	76.1	70.0
85°	0.0	3.0	6.1	12.2	21.3	24.3	21.3	18.3	18.3	18.3	18.3
87.5°	0.0	0.0	3.0	3.0	3.0	6.1	6.1	6.1	6.1	6.1	6.1
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°	4374.6	4374.6	4374.6	4374.6	4374.6	4374.6	4374.6	4374.6	4374.6	4374.6	4374.6
2.5°	4417.2	4426.3	4411.1	4408.0	4395.9	4432.4	4344.1	4322.9	4377.6	4325.9	4338.1
5°	4475.0	4496.3	4468.9	4423.2	4356.3	4252.9	4164.7	4049.1	3994.3	3954.8	3948.7
7.5°	4517.5	4532.8	4505.4	4359.4	4158.6	3897.0	3702.3	3559.3	3446.7	3413.3	3358.5
10°	4690.9	4694.0	4557.1	4234.6	3842.2	3498.4	3200.3	2981.3	2868.7	2798.7	2768.3
12.5°	4806.5	4800.5	4523.6	3988.2	3465.0	3008.7	2667.9	2403.3	2299.8	2266.4	2245.1
15°	4952.6	4919.1	4444.5	3735.7	2978.2	2485.4	2178.2	1995.6	1986.5	1965.2	1986.5
17.5°	5068.2	4973.9	4328.9	3276.4	2512.8	2047.3	1846.6	1858.7	1883.1	1904.4	1907.4
20°	5256.8	5062.1	4064.3	2874.8	2080.8	1755.3	1752.3	1807.0	1867.9	1892.2	1916.5
22.5°	5399.8	5098.6	3781.4	2445.9	1727.9	1636.7	1688.4	1770.5	1816.1	1840.5	1877.0
25°	5451.5	4998.2	3404.1	2016.9	1557.6	1581.9	1661.0	1715.8	1773.6	1800.9	1785.7
27.5°	5503.2	4946.5	2953.9	1661.0	1466.3	1545.4	1612.3	1667.1	1685.3	1721.8	1746.2
30°	5627.9	4767.0	2549.3	1435.9	1420.7	1521.1	1569.7	1588.0	1636.7	1658.0	1658.0
32.5°	5728.3	4697.0	2120.4	1329.4	1414.6	1533.2	1539.3	1539.3	1545.4	1530.2	1524.1
35°	5935.2	4456.7	1737.0	1265.5	1411.5	1536.3	1551.5	1499.8	1359.8	1305.1	1289.9
37.5°	6190.7	4301.6	1454.1	1250.3	1432.8	1572.8	1597.1	1402.4	1219.9	1131.7	1116.5
40°	6501.0	4192.0	1268.6	1244.2	1481.5	1658.0	1584.9	1326.4	1089.1	961.3	955.2
42.5°	6863.0	4091.6	1143.8	1241.2	1542.4	1746.2	1572.8	1262.5	955.2	870.0	882.2
45°	7152.0	4036.9	1058.7	1219.9	1563.6	1797.9	1581.9	1149.9	900.5	845.7	851.8
47.5°	7377.1	3921.3	988.7	1183.4	1560.6	1816.1	1499.8	1104.3	873.1	888.3	903.5
50°	7383.2	3766.1	900.5	1104.3	1515.0	1782.7	1405.5	1061.7	867.0	930.9	961.3
52.5°	7301.1	3547.1	806.2	991.7	1408.5	1667.1	1320.3	1043.4	839.6	833.5	870.0
55°	7009.0	3136.4	648.0	803.1	1189.5	1375.0	1244.2	1010.0	757.5	687.5	693.6
57.5°	5664.4	2248.1	477.6	575.0	842.7	1006.9	1122.5	994.8	681.4	584.1	587.1
60°	3507.6	1274.6	349.8	392.4	520.2	611.5	909.6	924.8	608.4	492.8	486.7
62.5°	1800.9	629.7	270.7	276.8	319.4	359.0	623.6	775.7	550.6	468.5	468.5
65°	602.3	310.3	237.3	212.9	212.9	222.1	377.2	538.5	465.4	392.4	392.4
67.5°	258.6	231.2	206.9	185.6	170.4	161.2	212.9	313.3	346.8	298.1	286.0
70°	200.8	194.7	179.5	155.1	133.9	121.7	124.7	161.2	197.7	191.7	185.6
72.5°	149.1	149.1	143.0	121.7	103.4	88.2	82.1	85.2	94.3	97.3	100.4
75°	103.4	106.5	106.5	94.3	76.1	63.9	54.8	45.6	36.5	30.4	27.4
77.5°	70.0	73.0	79.1	70.0	57.8	42.6	33.5	24.3	15.2	6.1	6.1
80°	60.8	70.0	76.1	70.0	60.8	45.6	33.5	18.3	9.1	0.0	0.0
82.5°	63.9	70.0	79.1	66.9	57.8	42.6	33.5	21.3	9.1	3.0	0.0
85°	15.2	15.2	18.3	21.3	27.4	30.4	24.3	15.2	9.1	3.0	0.0
87.5°	6.1	6.1	6.1	6.1	6.1	3.0	3.0	3.0	3.0	0.0	0.0
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)