

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: P323112

Luminaire Tested: **GAN-SA8A-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25870 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

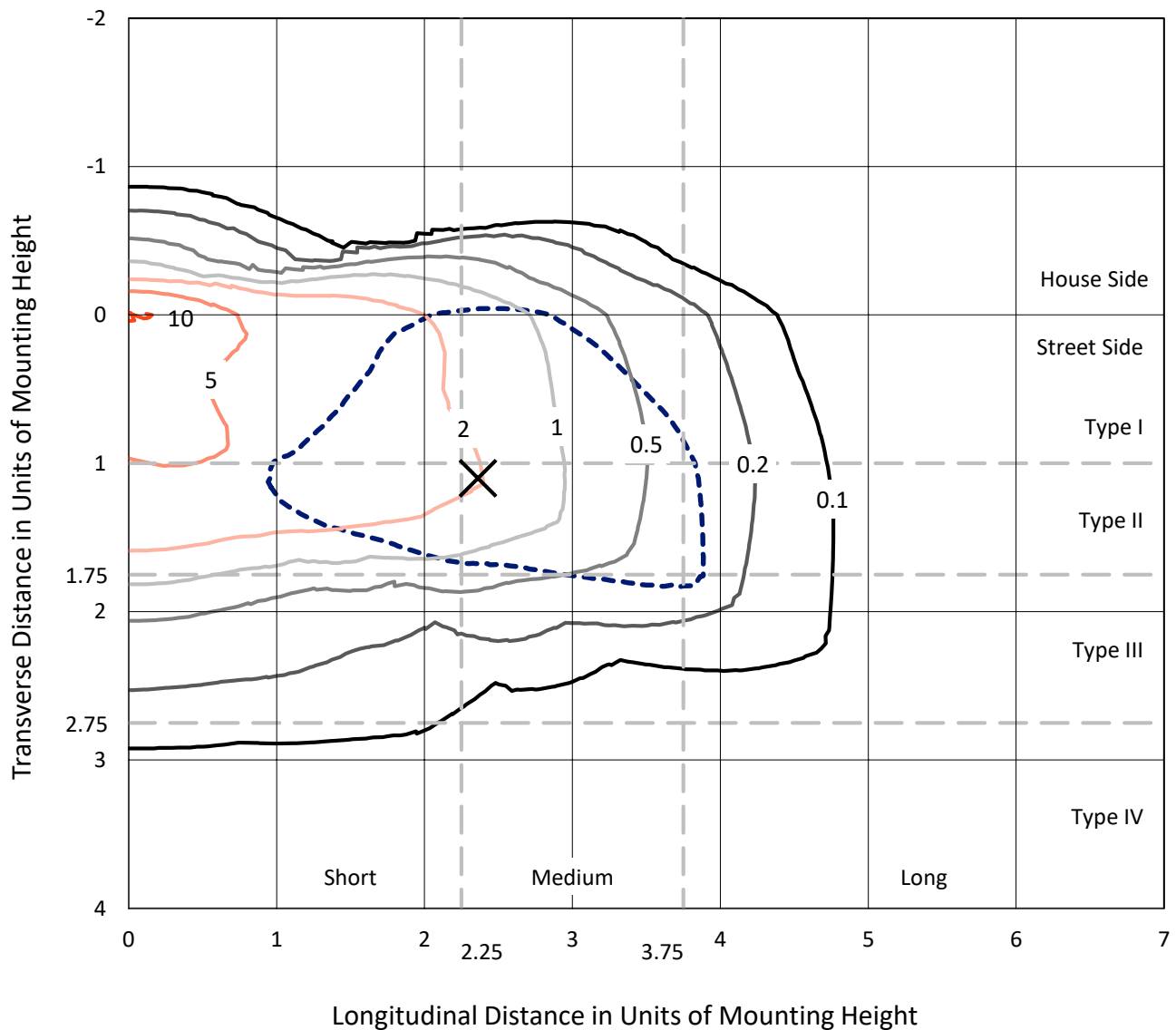
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

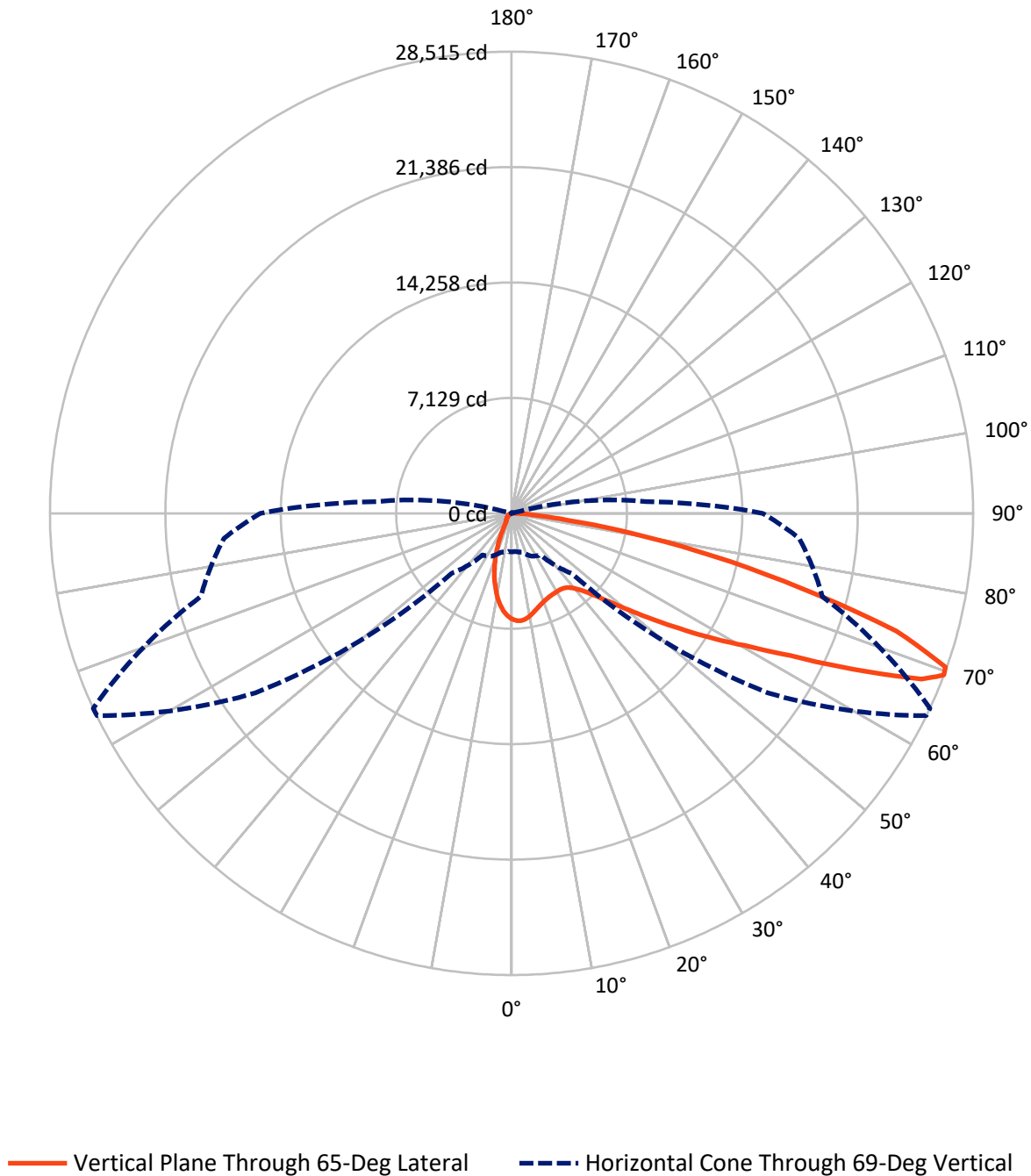
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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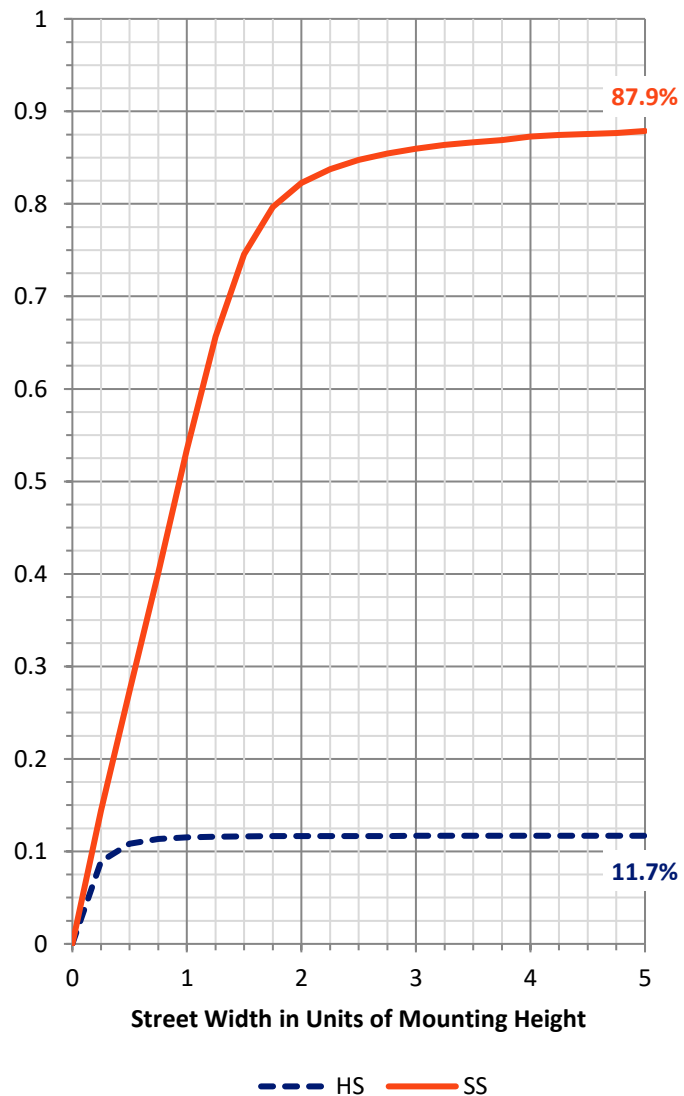
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3049.5	0.0	3049.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	22820.5	0.0	22820.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	25870.0	0.0	25870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.7	2.1
10°-20°	1196.7	4.6
20°-30°	1657.4	6.4
30°-40°	2311.0	8.9
40°-50°	3592.0	13.9
50°-60°	5766.6	22.3
60°-70°	6523.0	25.2
70°-80°	3831.0	14.8
80°-90°	445.6	1.7
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°	25870.0	100.0
0°-180°	25870.0	100.0

Coefficient of Utilization



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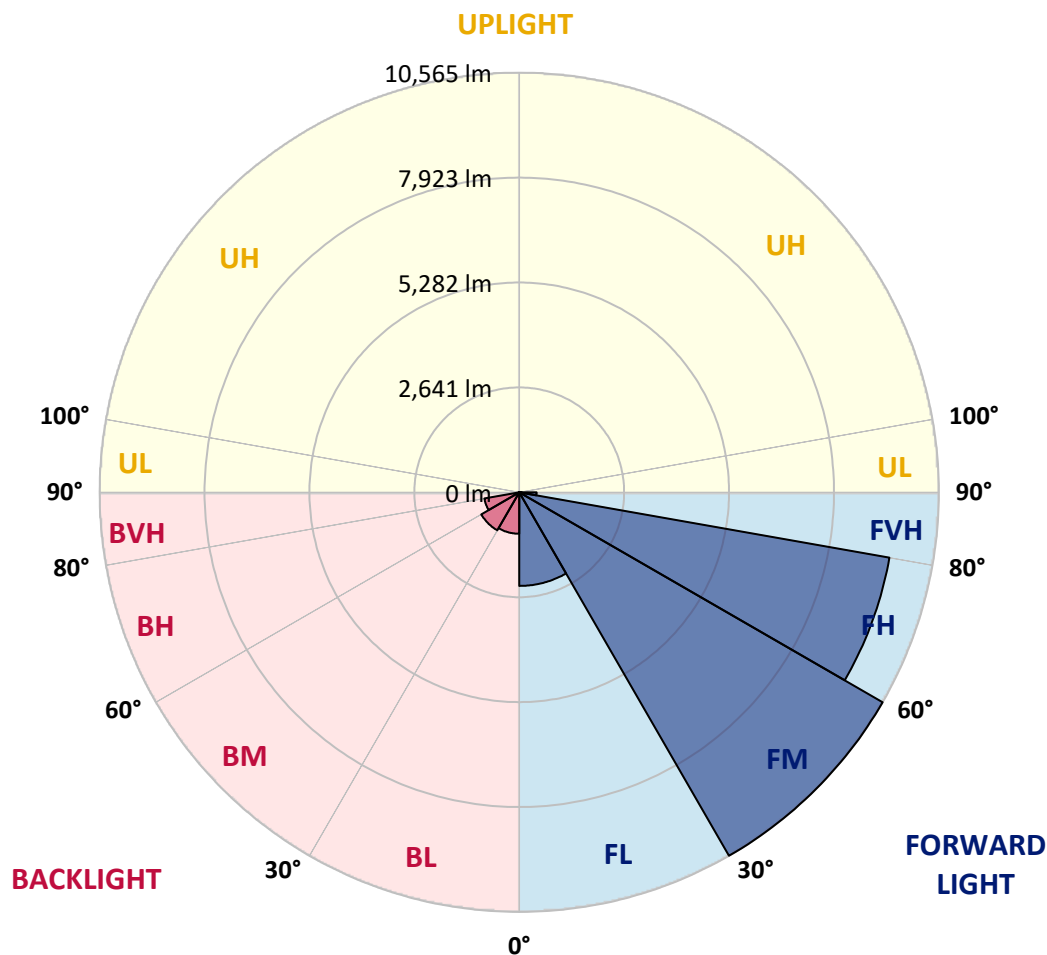
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2357.4	9.1			
FM	(30°-60°)	10564.6	40.8			
FH	(60°-80°)	9463.0	36.6			G4/12000
FVH	(80°-90°)	435.6	1.7			G3/500
BL	(0°-30°)	1043.4	4.0	B3/2500		
BM	(30°-60°)	1105.0	4.3	B2/2500		
BH	(60°-80°)	891.0	3.4	B2/1000		G2/1000
BVH	(80°-90°)	10.0	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6537.4	6537.4	6537.4	6537.4	6537.4	6537.4	6537.4	6537.4	6537.4	6537.4	6537.4
2.5°	6595.4	6579.0	6592.1	6620.6	6634.8	6634.8	6645.8	6632.6	6637.0	6605.3	6559.3
5°	6182.7	6157.5	6193.7	6273.6	6372.1	6456.4	6581.2	6646.9	6653.4	6654.5	6600.9
7.5°	5738.3	5715.3	5768.9	5863.1	5990.1	6146.6	6364.4	6554.9	6565.9	6668.8	6629.3
10°	5377.0	5360.6	5423.0	5523.7	5672.6	5847.7	6114.9	6379.8	6411.5	6639.2	6625.0
12.5°	5090.2	5077.1	5136.2	5252.2	5404.4	5598.2	5877.3	6184.9	6227.6	6572.4	6603.1
15°	4881.2	4879.0	4928.2	5039.9	5208.5	5389.1	5674.8	6004.3	6053.5	6500.2	6599.8
17.5°	4771.7	4775.0	4811.1	4906.3	5050.8	5230.4	5504.0	5852.1	5905.8	6435.6	6616.2
20°	4760.7	4764.0	4783.7	4837.4	4954.5	5113.2	5365.0	5724.1	5779.9	6387.4	6642.5
22.5°	4857.1	4854.9	4860.4	4854.9	4920.6	5041.0	5273.0	5625.5	5690.1	6355.7	6663.3
25°	5042.1	5038.8	5036.6	4996.1	4952.3	5016.9	5234.7	5569.7	5631.0	6332.7	6675.3
27.5°	5299.3	5297.1	5293.8	5227.1	5095.7	5055.2	5239.1	5548.9	5600.4	6314.1	6673.1
30°	5637.6	5652.9	5648.5	5555.5	5350.8	5172.3	5285.1	5538.0	5582.8	6278.0	6650.1
32.5°	6034.9	6065.6	6089.7	5990.1	5733.9	5404.4	5391.3	5550.0	5582.8	6250.6	6608.5
35°	6447.6	6487.0	6575.7	6540.7	6203.5	5753.6	5574.1	5622.2	5649.6	6265.9	6588.8
37.5°	6853.8	6900.8	7093.5	7195.3	6818.7	6215.6	5858.7	5800.7	5814.9	6359.0	6610.7
40°	7325.6	7396.7	7689.0	7853.2	7553.3	6834.1	6284.5	6107.2	6112.7	6563.7	6712.5
42.5°	7945.1	8018.5	8334.8	8592.1	8380.8	7615.6	6862.5	6575.7	6570.2	6946.8	6952.3
45°	8700.5	8777.1	9104.4	9390.1	9294.9	8541.7	7602.5	7259.9	7253.3	7551.1	7406.6
47.5°	9556.5	9632.0	9924.3	10218.8	10321.7	9623.3	8545.0	8193.6	8178.3	8390.7	8108.3
50°	10291.0	10340.3	10609.6	11005.9	11470.0	10952.2	9717.4	9379.2	9362.7	9506.2	9138.3
52.5°	10558.1	10586.6	10860.3	11415.3	12573.4	12751.9	11257.6	10821.9	10809.9	10872.3	10510.0
55°	10017.4	10068.8	10404.9	11228.1	13171.1	14785.8	13201.8	12608.5	12517.6	12383.0	11944.0
57.5°	8543.9	8626.0	8987.3	10081.9	12892.0	16399.3	16058.9	14629.2	14495.7	13672.5	13109.8
60°	6401.7	6502.4	6802.3	7983.5	11402.1	16974.0	19180.9	16881.0	16579.9	14699.3	14181.5
62.5°	4392.9	4443.3	4646.9	5416.4	8397.2	16032.6	21792.8	19896.8	19347.3	15815.9	15340.8
65°	3355.2	3372.7	3455.9	3720.8	5000.5	13023.3	22831.6	23875.9	23211.5	17151.4	16543.8
67.5°	2703.8	2689.6	2804.6	3183.3	3348.6	7945.1	21619.8	27640.5	27329.6	18936.8	17754.5
69°	2384.2	2364.5	2481.6	2921.7	3145.0	5252.2	19327.6	28495.5	28515.2	19879.3	17837.7
70°	2145.6	2158.7	2274.7	2766.2	3076.0	4122.5	17138.2	28277.6	28433.1	20231.8	17338.5
72.5°	1432.9	1468.0	1701.1	2296.6	2957.8	3119.8	10348.0	24265.6	24863.3	19438.1	14875.5
75°	807.9	834.1	1111.1	1731.8	2787.0	2970.9	5465.7	17877.1	18455.1	16254.8	11471.1
77.5°	396.3	410.5	628.3	1117.7	2330.6	2830.8	3100.1	12143.2	12803.3	10609.6	6488.1
80°	167.5	175.1	314.2	689.6	1666.1	2701.7	2302.1	7473.3	7555.4	4156.5	1728.5
82.5°	64.6	66.8	132.5	430.2	1058.5	2106.2	1925.5	3543.5	3458.1	782.7	394.1
85°	7.7	8.8	48.2	258.3	588.9	1083.7	1564.3	1527.1	1413.2	155.4	202.5
87.5°	0.0	0.0	3.3	78.8	175.1	507.9	813.3	633.8	571.4	50.4	105.1
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°	6537.4	6537.4	6537.4	6537.4	6537.4	6537.4	6537.4	6537.4	6537.4	6537.4	6537.4
2.5°	6521.0	6510.0	6450.9	6365.5	6284.5	6183.8	6087.5	6029.5	5983.5	5952.8	5989.0
5°	6538.5	6490.3	6310.8	6080.9	5855.4	5601.4	5365.0	5164.7	5085.9	4998.3	5037.7
7.5°	6533.0	6442.2	6119.2	5709.8	5296.0	4868.0	4463.0	4151.0	3989.0	3830.3	3870.8
10°	6505.6	6352.4	5863.1	5256.6	4637.0	4021.8	3447.1	3010.4	2766.2	2545.1	2576.9
12.5°	6445.4	6232.0	5560.9	4737.7	3909.1	3097.9	2424.7	1865.3	1565.4	1432.9	1449.3
15°	6409.3	6114.9	5241.3	4212.3	3131.9	2157.6	1482.2	1102.3	965.5	921.7	927.2
17.5°	6391.8	6002.1	4910.7	3611.3	2337.1	1373.8	957.8	845.1	815.5	807.9	810.1
20°	6374.3	5888.3	4570.3	3016.9	1610.3	923.9	787.1	754.2	743.3	733.4	735.6
22.5°	6344.7	5778.8	4204.6	2414.9	1085.9	749.9	709.3	677.6	654.6	642.6	644.8
25°	6308.6	5663.8	3831.4	1798.5	792.5	668.8	630.5	585.7	558.3	536.4	537.5
27.5°	6250.6	5522.6	3446.0	1309.2	665.6	598.8	547.3	498.1	452.1	426.9	426.9
30°	6169.6	5362.8	3018.0	937.0	596.6	529.8	467.4	406.1	356.9	333.9	331.7
32.5°	6079.8	5196.4	2585.6	710.4	541.9	465.2	394.1	329.5	285.7	267.1	266.0
35°	6003.2	5016.9	2154.3	595.5	487.1	402.8	325.1	270.4	235.4	220.0	218.9
37.5°	5953.9	4837.4	1734.0	532.0	437.9	344.8	272.6	223.3	198.1	186.1	185.0
40°	5946.3	4703.8	1349.7	483.8	391.9	293.4	227.7	189.4	166.4	153.3	152.2
42.5°	6045.9	4627.2	1035.6	443.3	344.8	248.5	193.8	162.0	137.9	124.8	123.7
45°	6307.5	4651.3	796.9	407.2	297.8	210.2	164.2	134.6	112.8	102.9	100.7
47.5°	6784.8	4817.7	633.8	371.1	252.9	178.4	140.1	111.7	93.0	83.2	82.1
50°	7634.3	5208.5	529.8	331.7	211.3	152.2	116.0	90.9	75.5	66.8	65.7
52.5°	8761.8	5904.7	472.9	293.4	175.1	129.2	95.2	72.2	59.1	52.5	51.4
55°	10005.3	6747.6	435.7	251.8	143.4	107.3	75.5	56.9	46.0	40.5	38.3
57.5°	11219.3	7477.7	400.7	211.3	119.3	87.6	60.2	44.9	36.1	30.7	29.6
60°	12334.8	8148.8	360.1	169.7	97.4	69.0	47.1	35.0	28.5	23.0	23.0
62.5°	13529.1	8667.6	304.3	132.5	79.9	52.5	38.3	31.7	23.0	19.7	18.6
65°	14794.5	9053.0	238.6	102.9	62.4	39.4	31.7	32.8	18.6	14.2	13.1
67.5°	15729.4	8976.3	176.2	81.0	48.2	30.7	30.7	35.0	16.4	10.9	9.9
69°	15523.6	8353.5	147.8	70.1	41.6	26.3	28.5	35.0	15.3	9.9	8.8
70°	14927.0	7663.8	130.3	62.4	37.2	24.1	27.4	33.9	14.2	9.9	8.8
72.5°	12431.1	5772.2	101.8	47.1	29.6	19.7	23.0	29.6	14.2	9.9	7.7
75°	9350.7	3694.5	77.7	33.9	21.9	15.3	17.5	21.9	14.2	8.8	7.7
77.5°	5088.0	1332.2	55.8	23.0	15.3	12.0	12.0	16.4	13.1	6.6	4.4
80°	1308.1	335.0	35.0	15.3	12.0	8.8	7.7	10.9	7.7	1.1	0.0
82.5°	322.9	75.5	18.6	10.9	8.8	3.3	3.3	5.5	3.3	0.0	0.0
85°	177.3	37.2	12.0	7.7	4.4	0.0	0.0	1.1	0.0	0.0	0.0
87.5°	90.9	10.9	3.3	2.2	1.1	0.0	0.0	0.0	0.0	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)