

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: P322376

Luminaire Tested: **GAN-SA2D-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8505 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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

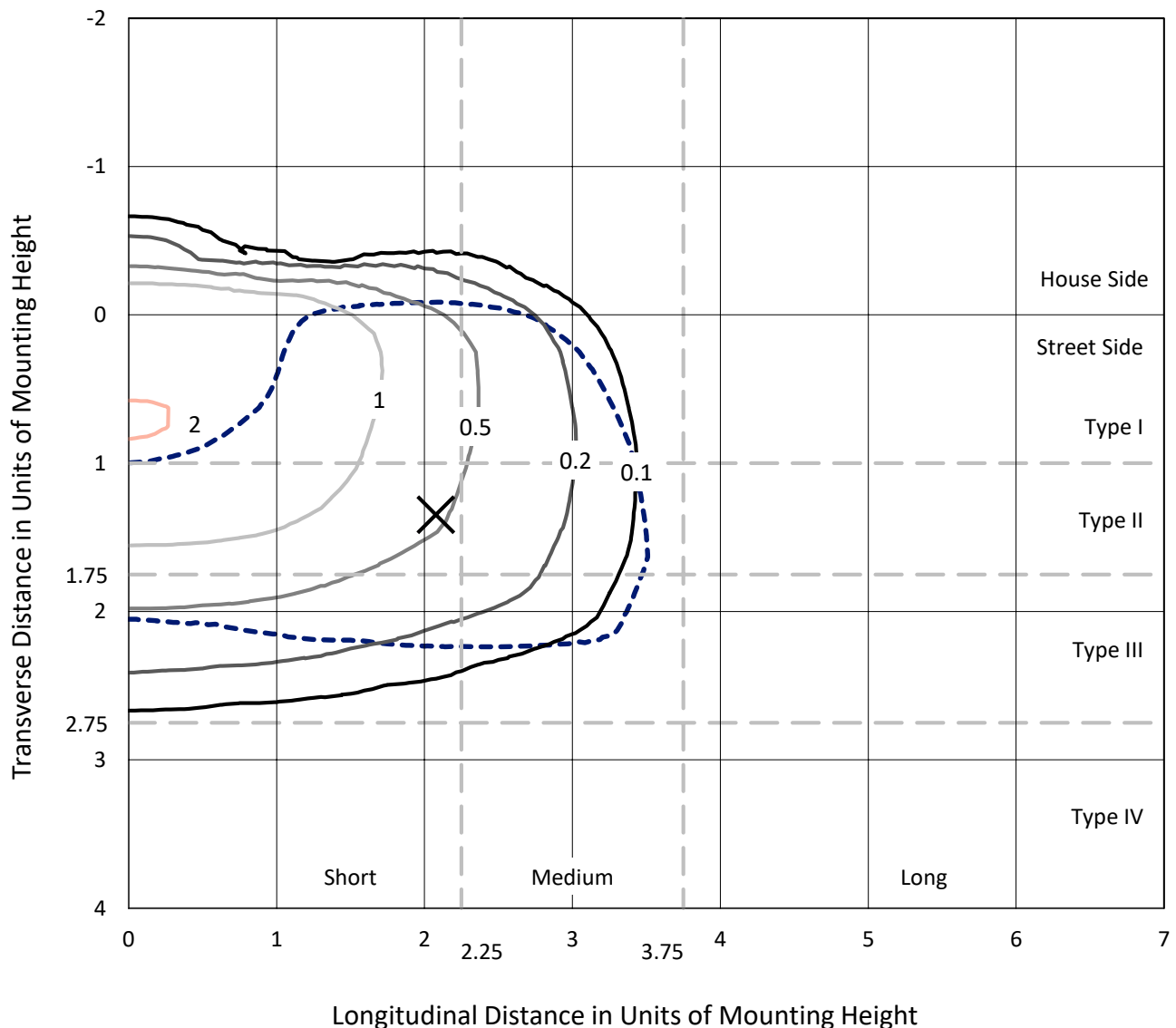


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Iso-Footcandle Lines of Horizontal Illumination

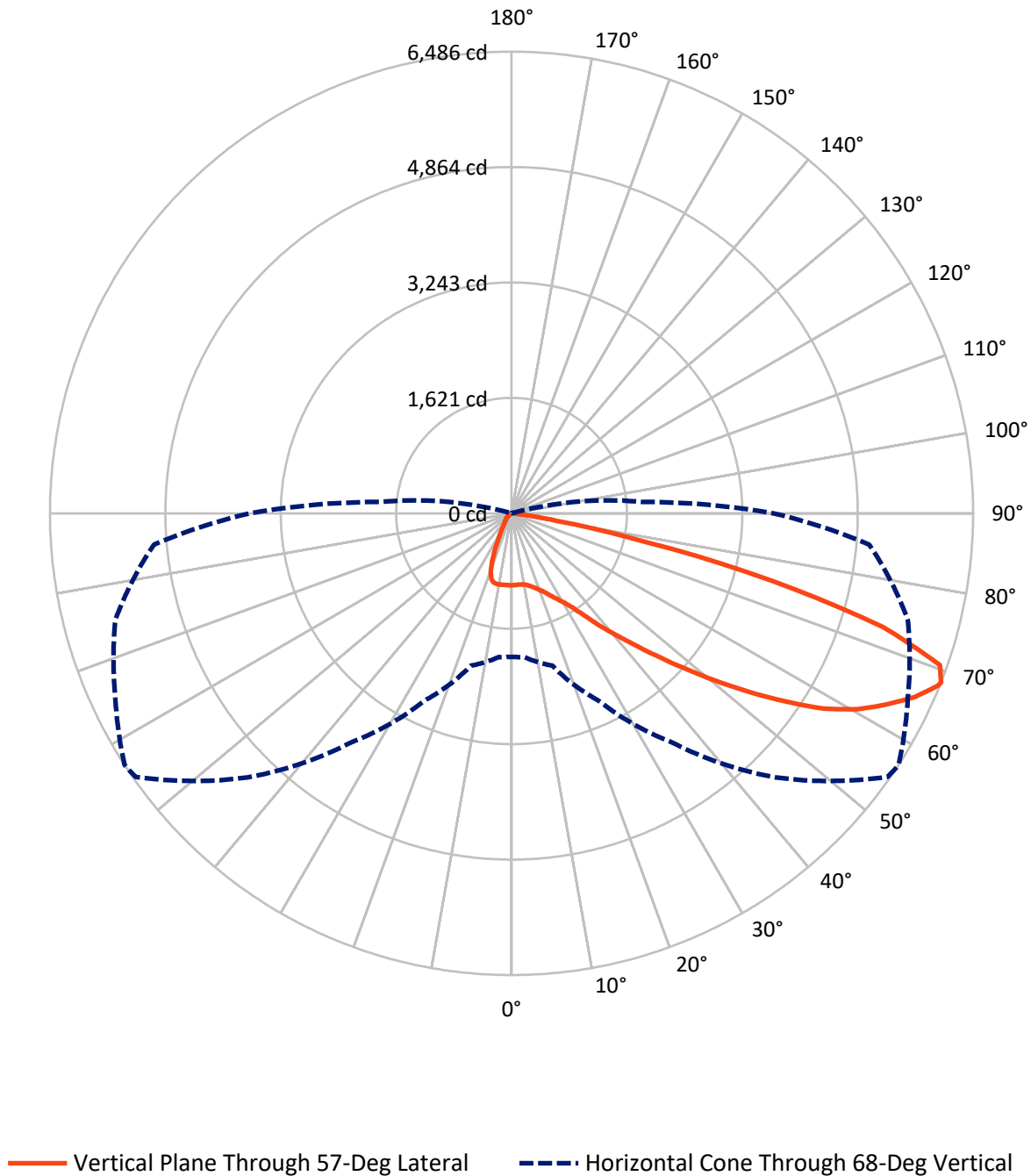
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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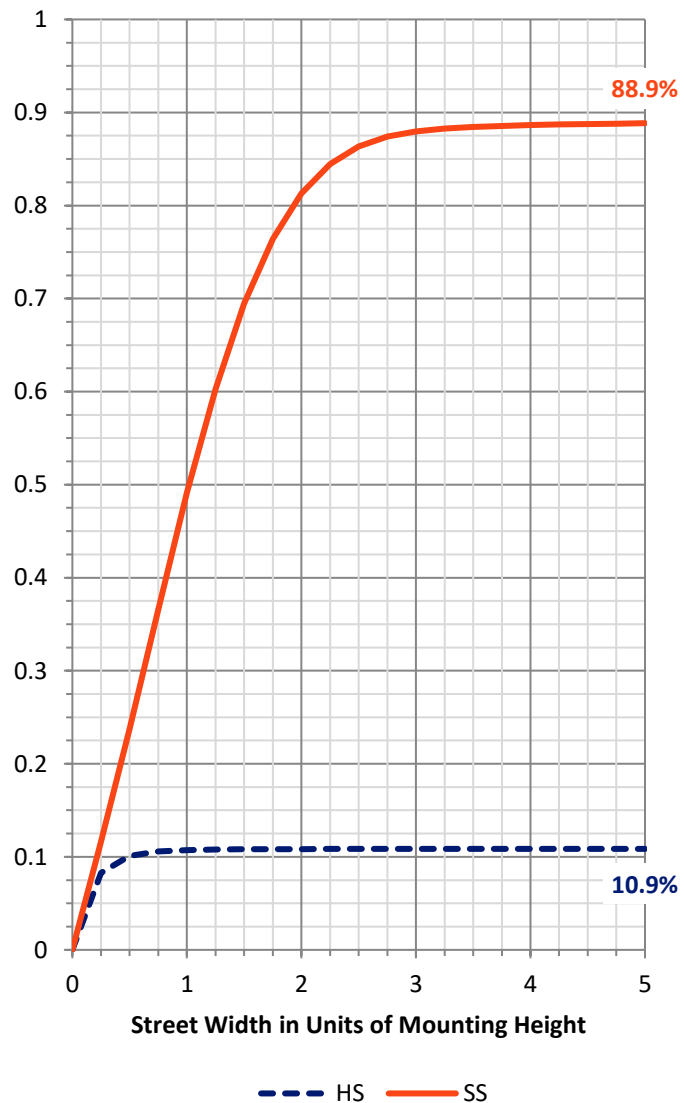
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	932.6	0.0	932.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	7572.4	0.0	7572.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	8505.0	0.0	8505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	1.1
10°-20°	262.1	3.1
20°-30°	452.1	5.3
30°-40°	780.3	9.2
40°-50°	1334.8	15.7
50°-60°	2135.5	25.1
60°-70°	2467.4	29.0
70°-80°	942.8	11.1
80°-90°	35.3	0.4
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°	8505.0	100.0
0°-180°	8505.0	100.0

Coefficient of Utilization



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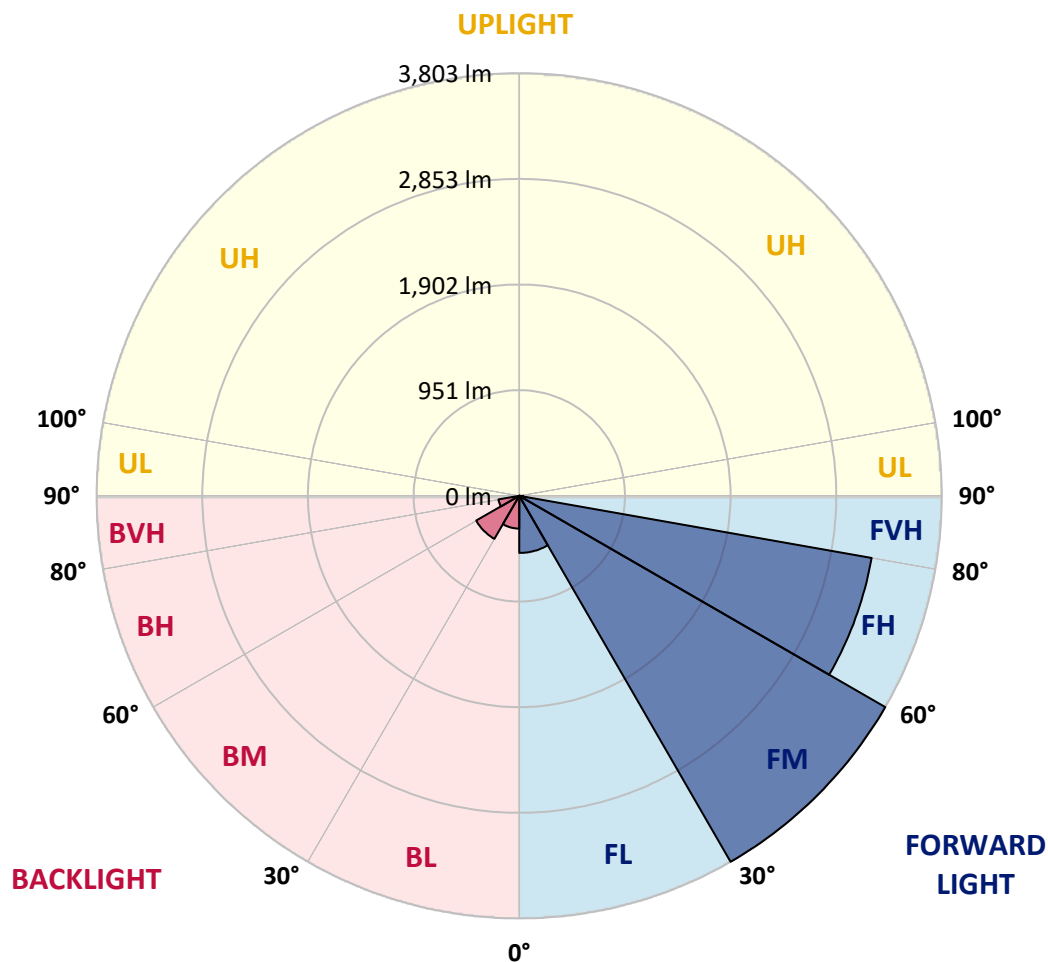
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	514.0	6.0			
FM	(30°-60°)	3803.4	44.7			
FH	(60°-80°)	3220.3	37.9			G2/5000
FVH	(80°-90°)	34.7	0.4			G1/100
BL	(0°-30°)	294.7	3.5	B1/500		
BM	(30°-60°)	447.3	5.3	B1/1000		
BH	(60°-80°)	189.9	2.2	B1/500		G1/500
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6
2.5°	986.9	991.3	994.5	996.5	999.0	1004.2	1005.8	1008.2	1009.4	1009.4	1012.2
5°	947.9	952.7	959.5	965.2	976.4	990.9	1001.4	1005.4	1012.6	1019.1	1022.7
7.5°	911.7	917.3	925.4	938.6	957.9	981.3	1003.0	1008.6	1022.7	1036.4	1043.2
10°	888.4	892.8	903.2	922.1	947.5	980.1	1010.6	1017.5	1041.6	1064.5	1077.4
12.5°	880.3	884.3	895.2	916.5	947.9	986.1	1028.3	1038.4	1073.8	1107.1	1125.2
15°	892.0	892.8	904.4	924.6	955.5	1001.0	1057.7	1069.7	1114.4	1157.8	1180.3
17.5°	937.0	933.4	939.4	948.3	972.8	1020.7	1088.6	1106.7	1166.3	1217.3	1238.6
20°	1049.6	1049.6	1036.0	1011.8	1012.2	1051.2	1130.5	1151.0	1223.8	1282.9	1302.2
22.5°	1242.3	1238.6	1211.3	1152.2	1097.9	1103.9	1181.5	1208.1	1292.9	1356.1	1362.5
25°	1473.9	1469.5	1427.3	1344.0	1249.9	1189.2	1250.7	1281.3	1375.4	1431.3	1418.0
27.5°	1719.2	1715.6	1673.8	1570.4	1436.5	1325.1	1333.1	1362.1	1459.4	1514.5	1472.3
30°	1956.9	1958.1	1916.7	1810.5	1658.9	1498.4	1437.7	1454.6	1541.1	1597.0	1536.6
32.5°	2182.9	2184.5	2148.7	2030.1	1888.5	1699.9	1582.5	1578.1	1636.0	1691.1	1621.9
35°	2384.4	2388.4	2363.9	2271.8	2121.8	1924.3	1770.3	1759.8	1770.7	1833.0	1752.6
37.5°	2578.6	2581.0	2562.5	2484.9	2359.4	2170.8	2007.6	1992.7	1969.4	2017.2	1925.1
40°	2791.4	2785.3	2764.0	2693.6	2585.9	2443.1	2262.5	2236.8	2196.2	2238.8	2151.9
42.5°	2989.2	2982.4	2986.0	2906.4	2815.5	2723.0	2559.7	2515.5	2491.8	2540.8	2430.2
45°	3236.6	3232.9	3245.0	3175.8	3102.2	3035.1	2900.3	2852.1	2841.6	2899.1	2766.8
47.5°	3480.7	3489.5	3526.9	3497.6	3467.8	3408.7	3261.1	3239.4	3245.8	3315.4	3121.9
50°	3684.2	3694.6	3797.2	3830.9	3874.0	3839.4	3691.4	3678.1	3703.5	3766.2	3504.0
52.5°	3831.3	3852.7	3980.1	4135.8	4292.6	4315.9	4168.3	4156.3	4190.5	4200.1	3799.2
55°	3933.5	3952.4	4096.8	4381.5	4700.8	4801.3	4709.6	4663.0	4656.6	4561.3	4109.6
57.5°	3951.6	3949.6	4157.1	4540.3	5020.9	5280.3	5222.4	5176.6	5044.6	4895.0	4465.5
60°	3849.4	3861.1	4102.0	4595.4	5222.0	5642.7	5647.1	5587.6	5382.1	5219.6	4810.6
62.5°	3535.0	3582.4	3825.7	4451.1	5219.6	5788.6	5958.3	5912.9	5667.2	5485.4	5160.5
65°	3025.0	3041.9	3274.0	3956.4	4866.9	5727.5	6238.6	6221.8	5924.2	5743.6	5340.2
67.5°	2209.0	2172.4	2416.2	3115.5	4120.5	5371.2	6439.7	6461.0	6122.4	5796.7	5148.8
68°	2016.0	2026.9	2216.7	2907.6	3925.0	5245.3	6453.0	6485.6	6142.1	5762.1	5044.2
70°	1201.6	1222.6	1391.9	2001.9	2986.0	4533.1	6309.8	6384.2	6024.7	5405.4	4363.0
72.5°	306.8	331.8	491.8	896.0	1705.5	3193.9	5326.6	5452.4	5230.8	4385.1	2945.4
75°	126.3	132.7	175.7	295.2	635.4	1438.9	3510.8	3780.3	3626.2	2625.3	1331.1
77.5°	87.3	91.7	113.0	163.7	275.1	487.8	1721.2	1915.9	1726.1	896.0	290.4
80°	62.7	66.4	80.8	109.0	158.0	174.1	561.0	648.7	515.2	196.7	72.0
82.5°	37.4	40.2	60.3	77.6	96.1	83.2	139.5	158.4	149.2	97.7	32.2
85°	18.5	21.7	40.6	55.5	51.9	35.0	42.6	47.5	58.7	59.5	17.3
87.5°	1.2	2.4	23.7	33.4	14.5	8.0	12.5	15.3	20.9	29.4	7.2
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°	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6
2.5°	1013.4	1013.8	1011.0	1009.8	1010.6	1005.8	1003.8	1004.6	1004.6	1005.8	1003.8
5°	1023.5	1023.5	1018.7	1012.2	1008.6	999.4	993.3	991.7	990.5	989.7	988.1
7.5°	1045.2	1042.8	1034.3	1020.3	1008.2	988.1	972.8	964.8	960.8	959.1	957.9
10°	1080.2	1075.8	1061.7	1035.6	1007.8	972.0	938.6	914.9	895.2	887.2	882.3
12.5°	1127.2	1120.8	1097.1	1053.6	1005.0	939.0	866.6	797.1	732.3	705.8	692.5
15°	1181.5	1172.3	1134.9	1068.9	988.5	864.6	707.4	585.5	495.9	462.1	447.6
17.5°	1236.6	1224.6	1167.9	1078.6	939.0	710.6	496.3	374.8	314.9	298.8	293.2
20°	1292.1	1274.4	1196.4	1071.3	827.2	512.3	327.4	273.9	256.6	251.7	250.1
22.5°	1344.8	1317.5	1222.2	1043.2	655.1	343.8	259.0	242.1	236.5	233.7	232.8
25°	1390.7	1352.5	1244.7	956.3	463.7	259.8	233.3	227.6	220.4	215.2	215.6
27.5°	1433.7	1387.4	1258.3	813.2	309.3	222.0	216.0	208.3	195.0	187.4	187.4
30°	1485.6	1434.1	1268.4	625.8	227.6	196.3	191.4	179.8	161.7	151.6	151.6
32.5°	1563.6	1504.9	1262.0	439.2	188.6	172.5	161.3	145.2	125.5	115.8	115.4
35°	1683.0	1614.3	1216.1	287.9	166.5	150.0	131.9	112.2	94.9	86.9	86.5
37.5°	1843.9	1760.6	1113.2	205.9	149.2	129.1	107.4	85.7	72.8	67.6	67.2
40°	2052.6	1930.8	966.0	166.9	133.1	109.0	82.8	66.4	57.5	53.5	53.9
42.5°	2303.1	2112.9	789.4	144.0	117.4	89.7	64.7	52.3	46.7	43.8	43.0
45°	2581.4	2292.7	604.4	128.3	101.7	72.4	50.7	41.4	37.0	35.4	35.4
47.5°	2887.5	2467.6	442.4	114.6	84.9	55.9	40.6	33.8	30.2	29.0	28.6
50°	3165.4	2589.1	318.9	100.1	69.6	44.2	33.0	28.2	25.7	24.1	24.1
52.5°	3397.0	2627.3	234.9	84.5	56.3	35.4	27.3	24.1	21.7	20.5	20.5
55°	3600.9	2611.6	174.5	69.6	45.4	29.0	23.3	20.5	18.5	17.3	17.3
57.5°	3796.4	2560.9	130.3	56.7	36.6	23.3	19.7	17.3	15.3	14.5	14.5
60°	3956.0	2476.5	96.9	45.8	29.4	18.9	16.5	14.1	12.5	11.3	11.3
62.5°	4085.5	2383.2	71.2	37.8	23.3	14.9	12.9	11.7	9.2	8.0	8.0
65°	4086.3	2228.3	53.5	31.4	18.1	11.7	9.7	9.2	6.0	4.8	4.4
67.5°	3790.7	1921.1	41.0	26.9	14.1	8.8	7.2	7.6	3.2	2.0	1.6
68°	3683.3	1843.1	38.6	26.5	13.3	8.4	6.8	7.6	2.8	1.6	1.2
70°	3105.4	1466.3	31.0	25.7	11.7	6.4	5.6	7.6	2.4	1.2	0.8
72.5°	1986.2	851.0	22.9	20.5	8.8	4.8	3.6	6.8	2.4	0.8	0.4
75°	845.3	263.8	15.7	14.5	5.2	3.6	2.4	4.4	1.6	0.4	0.0
77.5°	178.2	59.5	9.2	8.8	3.6	2.4	1.6	1.2	0.4	0.0	0.0
80°	45.8	17.3	4.8	4.4	2.0	1.2	0.8	0.0	0.0	0.0	0.0
82.5°	14.5	6.8	2.8	2.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.2	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	1.2	0.4	0.0	0.0	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)