

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: P322357

Luminaire Tested: **GAN-SA3B-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322357
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-SA3B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA 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: 9346 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 124
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



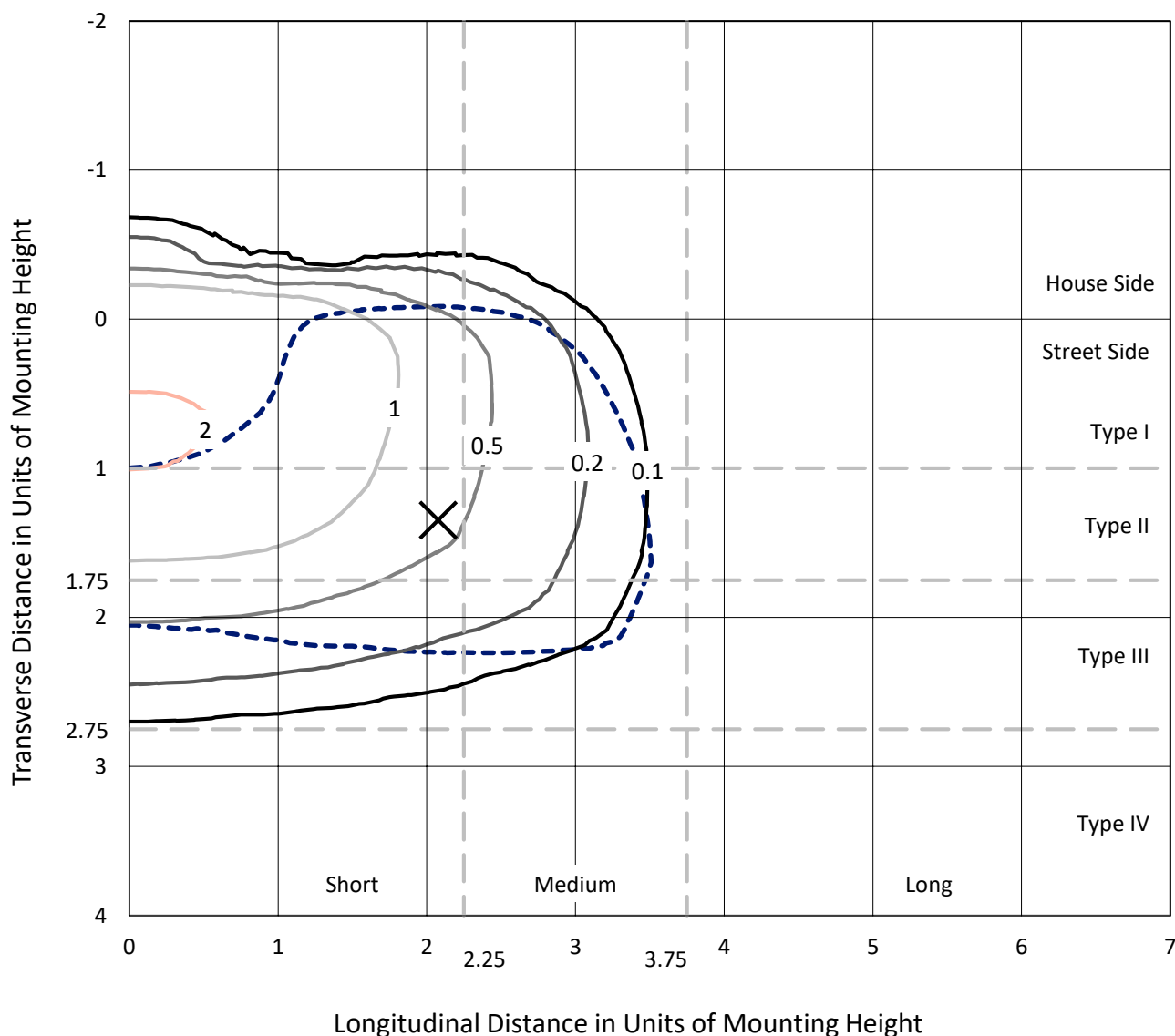
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

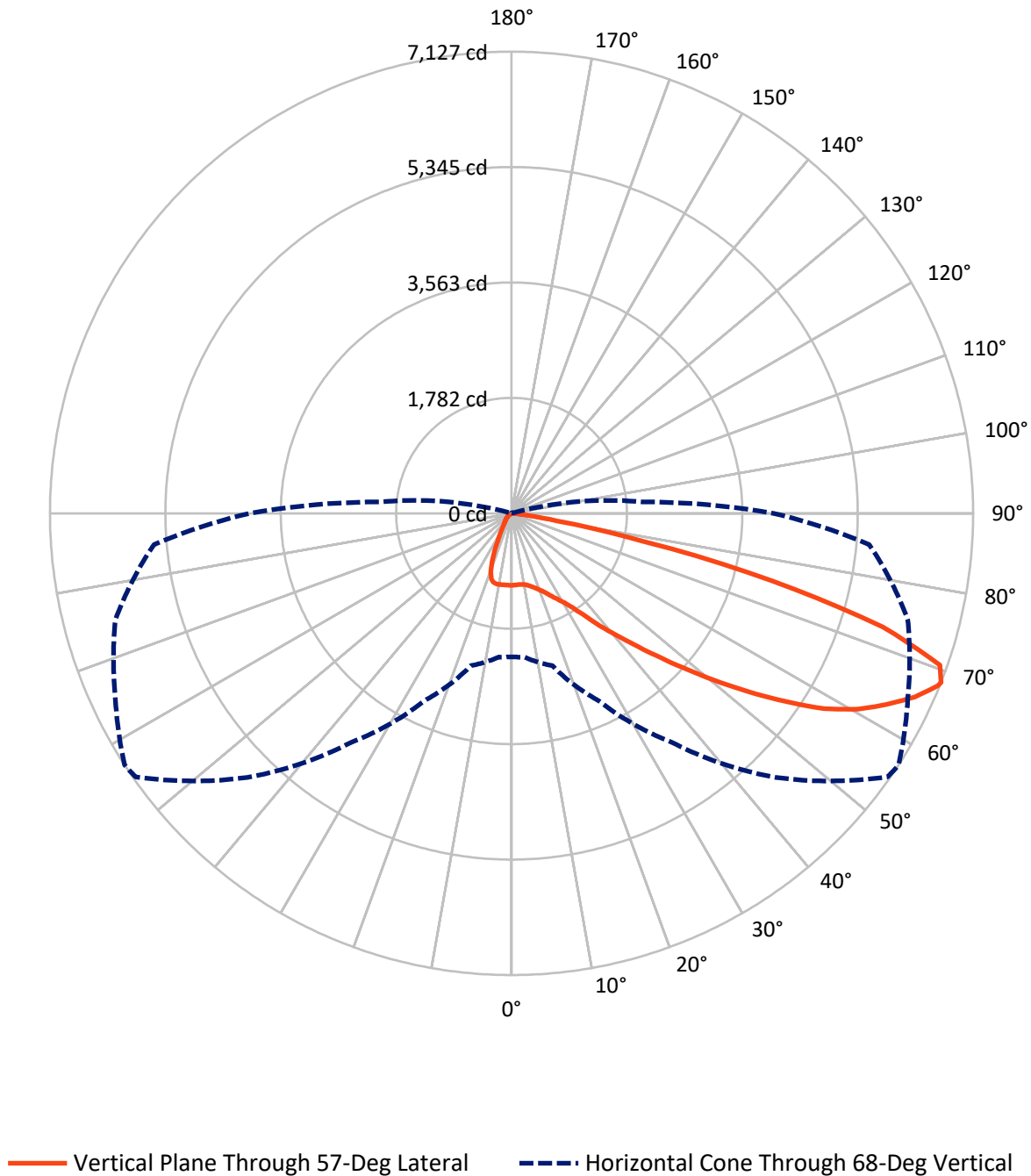
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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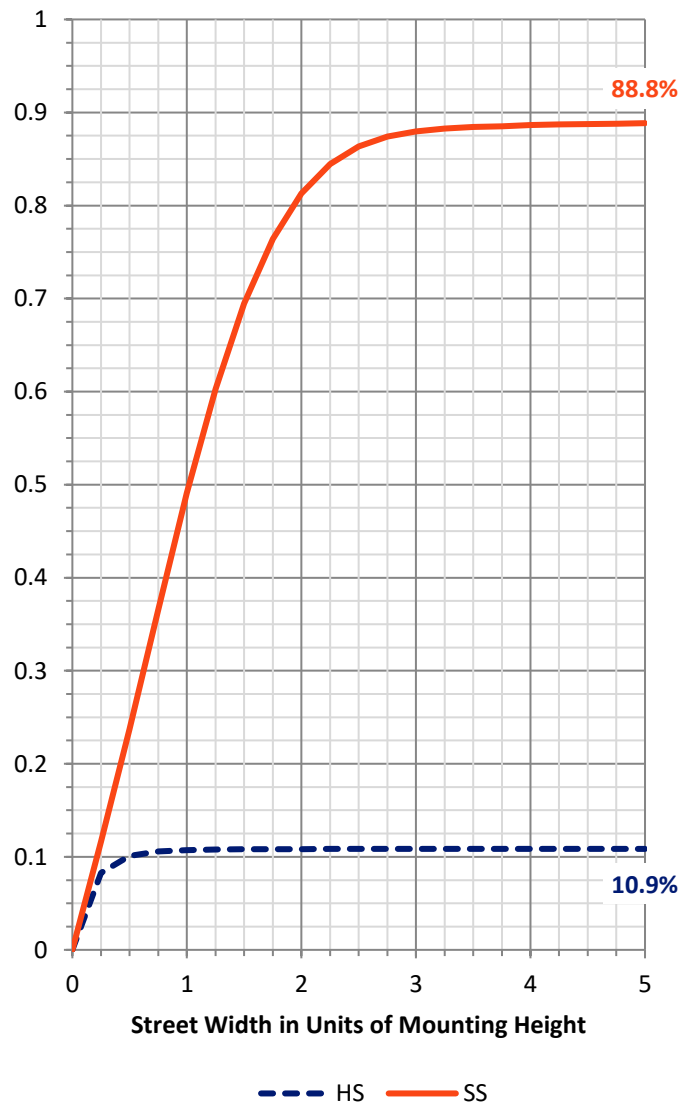
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1024.8	0.0	1024.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	8321.2	0.0	8321.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	9346.0	0.0	9346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	1.1
10°-20°	288.0	3.1
20°-30°	496.8	5.3
30°-40°	857.5	9.2
40°-50°	1466.8	15.7
50°-60°	2346.7	25.1
60°-70°	2711.4	29.0
70°-80°	1036.1	11.1
80°-90°	38.8	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°	9346.0	100.0
0°-180°	9346.0	100.0

Coefficient of Utilization



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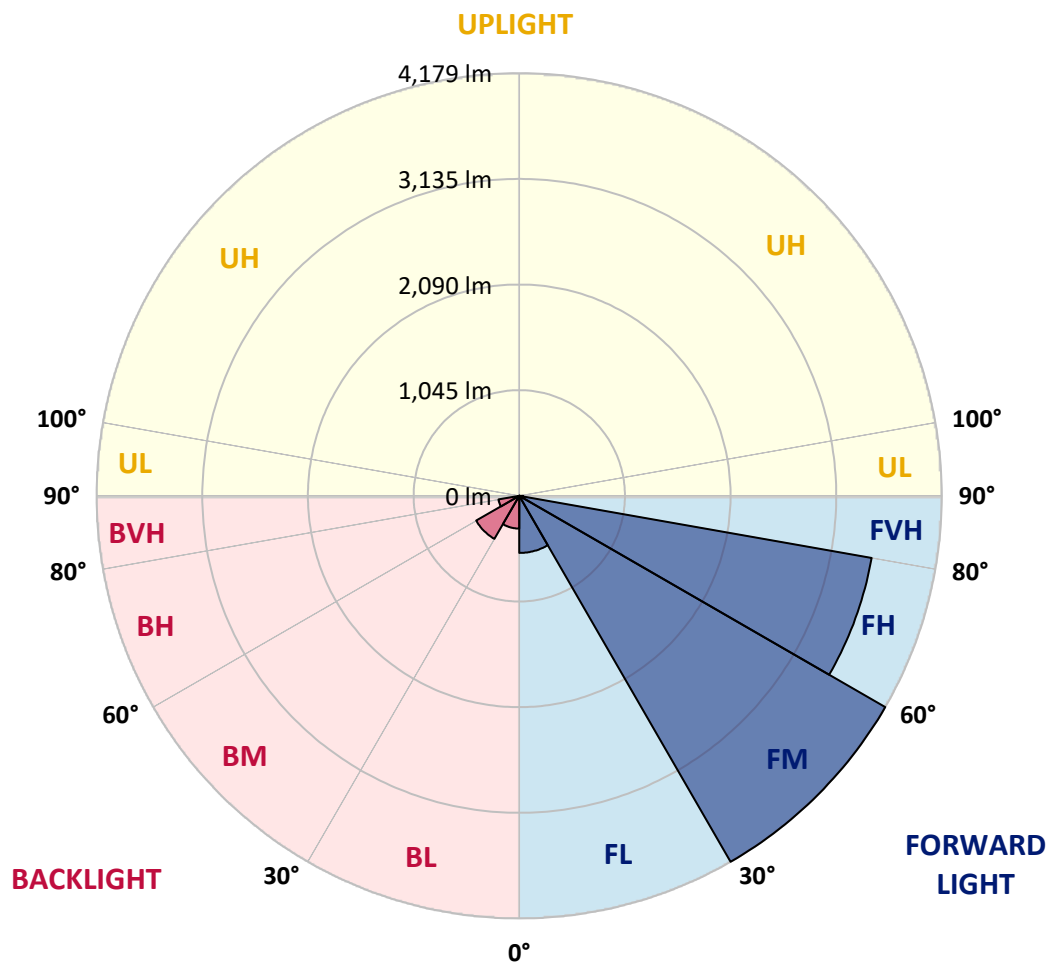
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	564.9	6.0			
FM	(30°-60°)	4179.5	44.7			
FH	(60°-80°)	3538.7	37.9			G2/5000
FVH	(80°-90°)	38.1	0.4			G1/100
BL	(0°-30°)	323.9	3.5	B1/500		
BM	(30°-60°)	491.5	5.3	B1/1000		
BH	(60°-80°)	208.7	2.2	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6
2.5°	1084.5	1089.3	1092.9	1095.1	1097.7	1103.5	1105.2	1107.9	1109.2	1109.2	1112.3
5°	1041.6	1046.9	1054.4	1060.6	1073.0	1088.9	1100.4	1104.8	1112.8	1119.8	1123.8
7.5°	1001.8	1008.0	1016.9	1031.4	1052.7	1078.3	1102.2	1108.3	1123.8	1138.8	1146.3
10°	976.2	981.1	992.6	1013.3	1041.2	1077.0	1110.6	1118.1	1144.6	1169.8	1183.9
12.5°	967.4	971.8	983.7	1007.1	1041.6	1083.6	1130.0	1141.0	1179.9	1216.6	1236.5
15°	980.2	981.1	993.9	1016.0	1050.0	1099.9	1162.3	1175.5	1224.6	1272.3	1297.0
17.5°	1029.7	1025.7	1032.3	1042.1	1069.0	1121.6	1196.3	1216.2	1281.6	1337.7	1361.1
20°	1153.4	1153.4	1138.4	1111.9	1112.3	1155.2	1242.2	1264.8	1344.8	1409.7	1430.9
22.5°	1365.1	1361.1	1331.1	1266.1	1206.4	1213.1	1298.4	1327.5	1420.8	1490.2	1497.2
25°	1619.6	1614.8	1568.4	1476.9	1373.5	1306.8	1374.4	1408.0	1511.4	1572.8	1558.2
27.5°	1889.2	1885.2	1839.3	1725.7	1578.5	1456.1	1465.0	1496.8	1603.7	1664.3	1617.9
30°	2150.4	2151.7	2106.2	1989.5	1822.9	1646.6	1579.9	1598.4	1693.4	1754.9	1688.6
32.5°	2398.8	2400.5	2361.2	2230.8	2075.3	1868.0	1739.0	1734.1	1797.7	1858.3	1782.3
35°	2620.2	2624.6	2597.6	2496.4	2331.6	2114.6	1945.3	1933.9	1945.8	2014.3	1925.9
37.5°	2833.6	2836.3	2815.9	2730.6	2592.8	2385.5	2206.1	2189.7	2164.1	2216.7	2115.5
40°	3067.4	3060.8	3037.3	2960.0	2841.6	2684.7	2486.3	2458.0	2413.3	2460.2	2364.7
42.5°	3284.8	3277.3	3281.3	3193.8	3093.9	2992.3	2812.8	2764.2	2738.2	2792.1	2670.5
45°	3556.6	3552.6	3565.9	3489.9	3409.0	3335.2	3187.1	3134.1	3122.6	3185.8	3040.4
47.5°	3824.8	3834.6	3875.7	3843.4	3810.7	3745.7	3583.5	3559.7	3566.8	3643.2	3430.6
50°	4048.5	4059.9	4172.6	4209.8	4257.0	4219.0	4056.4	4041.8	4069.7	4138.6	3850.5
52.5°	4210.2	4233.6	4373.7	4544.7	4717.1	4742.7	4580.5	4567.3	4604.8	4615.4	4174.8
55°	4322.4	4343.2	4501.9	4814.7	5165.6	5276.1	5175.4	5124.1	5117.0	5012.3	4516.0
57.5°	4342.3	4340.1	4568.2	4989.3	5517.4	5802.4	5738.8	5688.4	5543.5	5379.1	4907.1
60°	4230.1	4242.9	4507.6	5049.8	5738.4	6200.6	6205.5	6140.1	5914.2	5735.7	5286.3
62.5°	3884.5	3936.6	4204.0	4891.2	5735.7	6361.0	6547.5	6497.6	6227.6	6027.8	5670.7
65°	3324.1	3342.7	3597.7	4347.6	5348.1	6293.9	6855.5	6837.0	6510.0	6311.5	5868.3
67.5°	2427.5	2387.3	2655.1	3423.6	4527.9	5902.3	7076.5	7099.9	6727.8	6369.9	5657.9
68°	2215.4	2227.3	2435.9	3195.1	4313.2	5764.0	7091.1	7126.9	6749.5	6331.9	5543.0
70°	1320.5	1343.4	1529.5	2199.9	3281.3	4981.4	6933.8	7015.5	6620.4	5939.9	4794.4
72.5°	337.2	364.6	540.5	984.6	1874.2	3509.7	5853.3	5991.6	5748.1	4818.7	3236.6
75°	138.8	145.8	193.1	324.4	698.2	1581.2	3858.0	4154.1	3984.8	2884.9	1462.8
77.5°	95.9	100.8	124.2	179.9	302.3	536.1	1891.4	2105.3	1896.7	984.6	319.1
80°	68.9	72.9	88.8	119.8	173.7	191.4	616.5	712.8	566.1	216.1	79.1
82.5°	41.1	44.2	66.3	85.3	105.6	91.5	153.3	174.1	164.0	107.4	35.4
85°	20.3	23.9	44.6	61.0	57.0	38.4	46.8	52.1	64.5	65.4	19.0
87.5°	1.3	2.7	26.1	36.7	15.9	8.8	13.7	16.8	23.0	32.3	8.0
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°	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6
2.5°	1113.6	1114.1	1111.0	1109.7	1110.6	1105.2	1103.0	1103.9	1103.9	1105.2	1103.0
5°	1124.7	1124.7	1119.4	1112.3	1108.3	1098.2	1091.5	1089.8	1088.5	1087.6	1085.8
7.5°	1148.6	1145.9	1136.6	1121.2	1107.9	1085.8	1069.0	1060.2	1055.8	1054.0	1052.7
10°	1187.0	1182.1	1166.7	1138.0	1107.5	1068.1	1031.4	1005.4	983.7	974.9	969.6
12.5°	1238.7	1231.6	1205.6	1157.8	1104.4	1031.9	952.3	875.9	804.7	775.6	761.0
15°	1298.4	1288.2	1247.1	1174.6	1086.2	950.1	777.3	643.4	544.9	507.8	491.9
17.5°	1358.9	1345.7	1283.3	1185.2	1031.9	780.9	545.3	411.9	346.0	328.3	322.2
20°	1419.9	1400.5	1314.7	1177.3	909.0	563.0	359.7	300.9	281.9	276.6	274.9
22.5°	1477.8	1447.7	1343.0	1146.3	719.9	377.8	284.6	266.0	259.9	256.8	255.9
25°	1528.2	1486.2	1367.8	1050.9	509.5	285.5	256.3	250.1	242.2	236.4	236.9
27.5°	1575.5	1524.6	1382.8	893.6	339.8	243.9	237.3	228.9	214.3	205.9	205.9
30°	1632.5	1575.9	1393.8	687.6	250.1	215.7	210.4	197.5	177.7	166.6	166.6
32.5°	1718.2	1653.7	1386.8	482.6	207.3	189.6	177.2	159.5	137.9	127.3	126.8
35°	1849.4	1773.9	1336.4	316.4	183.0	164.8	145.0	123.3	104.3	95.5	95.0
37.5°	2026.2	1934.7	1223.2	226.3	164.0	141.9	118.0	94.1	80.0	74.2	73.8
40°	2255.6	2121.7	1061.5	183.4	146.3	119.8	91.0	72.9	63.2	58.8	59.2
42.5°	2530.9	2321.9	867.5	158.2	129.0	98.5	71.1	57.4	51.3	48.2	47.3
45°	2836.7	2519.4	664.2	141.0	111.8	79.5	55.7	45.5	40.7	38.9	38.9
47.5°	3173.0	2711.6	486.1	125.9	93.2	61.4	44.6	37.1	33.1	31.8	31.4
50°	3478.4	2845.1	350.4	110.0	76.5	48.6	36.2	30.9	28.3	26.5	26.5
52.5°	3732.9	2887.1	258.1	92.8	61.9	38.9	30.1	26.5	23.9	22.5	22.5
55°	3957.0	2869.8	191.8	76.5	49.9	31.8	25.6	22.5	20.3	19.0	19.0
57.5°	4171.7	2814.2	143.2	62.3	40.2	25.6	21.7	19.0	16.8	15.9	15.9
60°	4347.2	2721.4	106.5	50.4	32.3	20.8	18.1	15.5	13.7	12.4	12.4
62.5°	4489.5	2618.8	78.2	41.5	25.6	16.4	14.1	12.8	10.2	8.8	8.8
65°	4490.4	2448.7	58.8	34.5	19.9	12.8	10.6	10.2	6.6	5.3	4.9
67.5°	4165.6	2111.1	45.1	29.6	15.5	9.7	8.0	8.4	3.5	2.2	1.8
68°	4047.6	2025.3	42.4	29.2	14.6	9.3	7.5	8.4	3.1	1.8	1.3
70°	3412.5	1611.2	34.0	28.3	12.8	7.1	6.2	8.4	2.7	1.3	0.9
72.5°	2182.7	935.1	25.2	22.5	9.7	5.3	4.0	7.5	2.7	0.9	0.4
75°	928.9	289.9	17.2	15.9	5.7	4.0	2.7	4.9	1.8	0.4	0.0
77.5°	195.8	65.4	10.2	9.7	4.0	2.7	1.8	1.3	0.4	0.0	0.0
80°	50.4	19.0	5.3	4.9	2.2	1.3	0.9	0.0	0.0	0.0	0.0
82.5°	15.9	7.5	3.1	2.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.0	4.4	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	1.3	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)