

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: P322416

Luminaire Tested: **GAN-SA2D-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322416
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-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 9193 lumens
Efficiency: N/A
Efficacy: 71.3 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

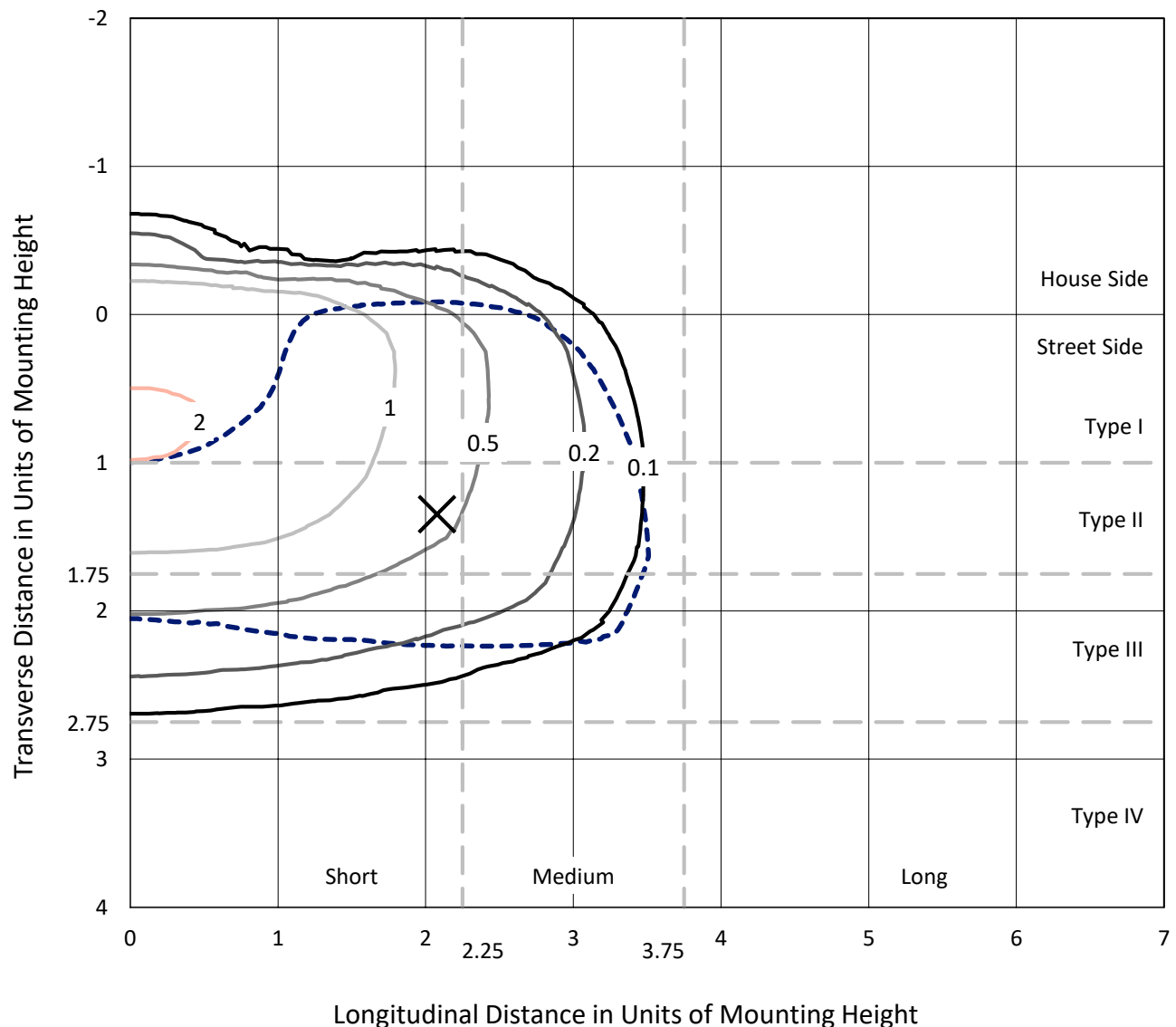


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Iso-Footcandle Lines of Horizontal Illumination

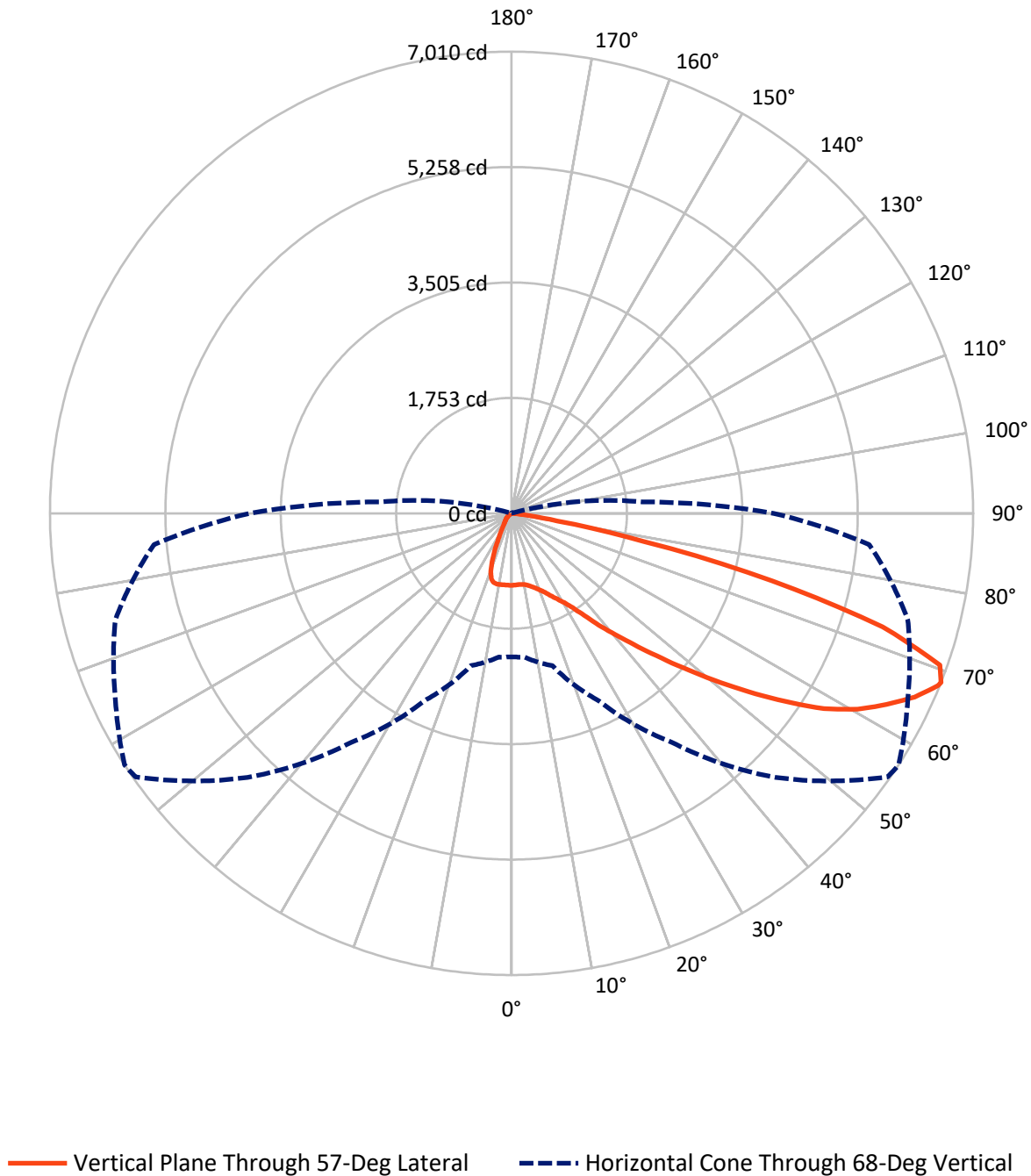
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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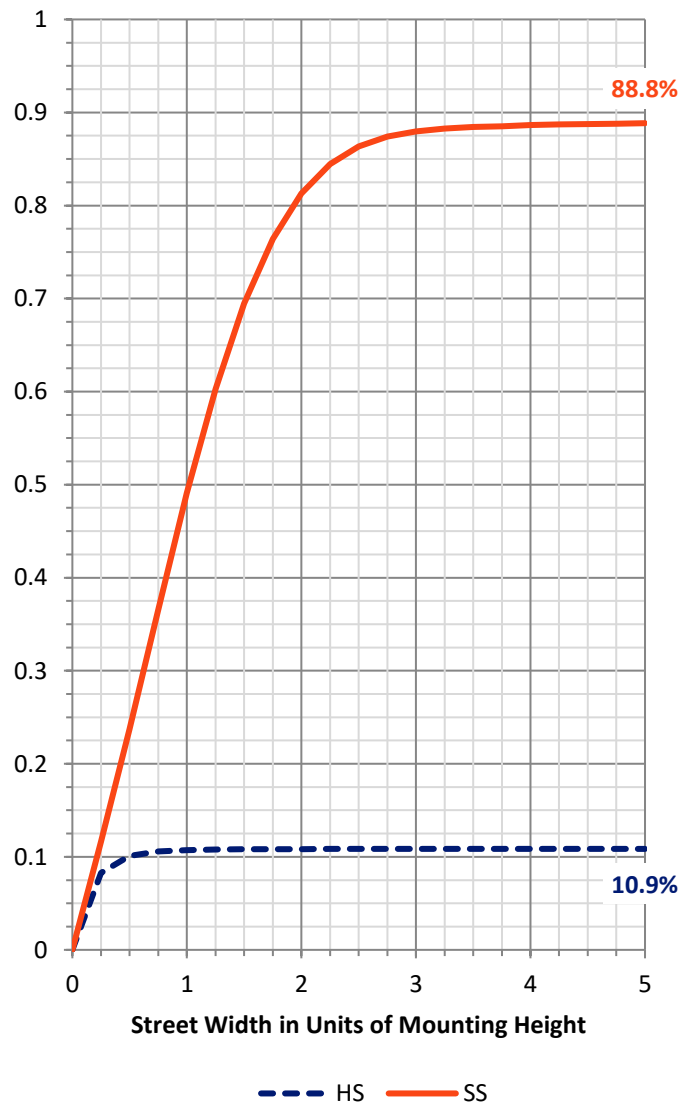
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1008.1	0.0	1008.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	8184.9	0.0	8184.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	9193.0	0.0	9193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	1.1
10°-20°	283.3	3.1
20°-30°	488.7	5.3
30°-40°	843.5	9.2
40°-50°	1442.8	15.7
50°-60°	2308.3	25.1
60°-70°	2667.0	29.0
70°-80°	1019.1	11.1
80°-90°	38.2	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°	9193.0	100.0
0°-180°	9193.0	100.0

Coefficient of Utilization



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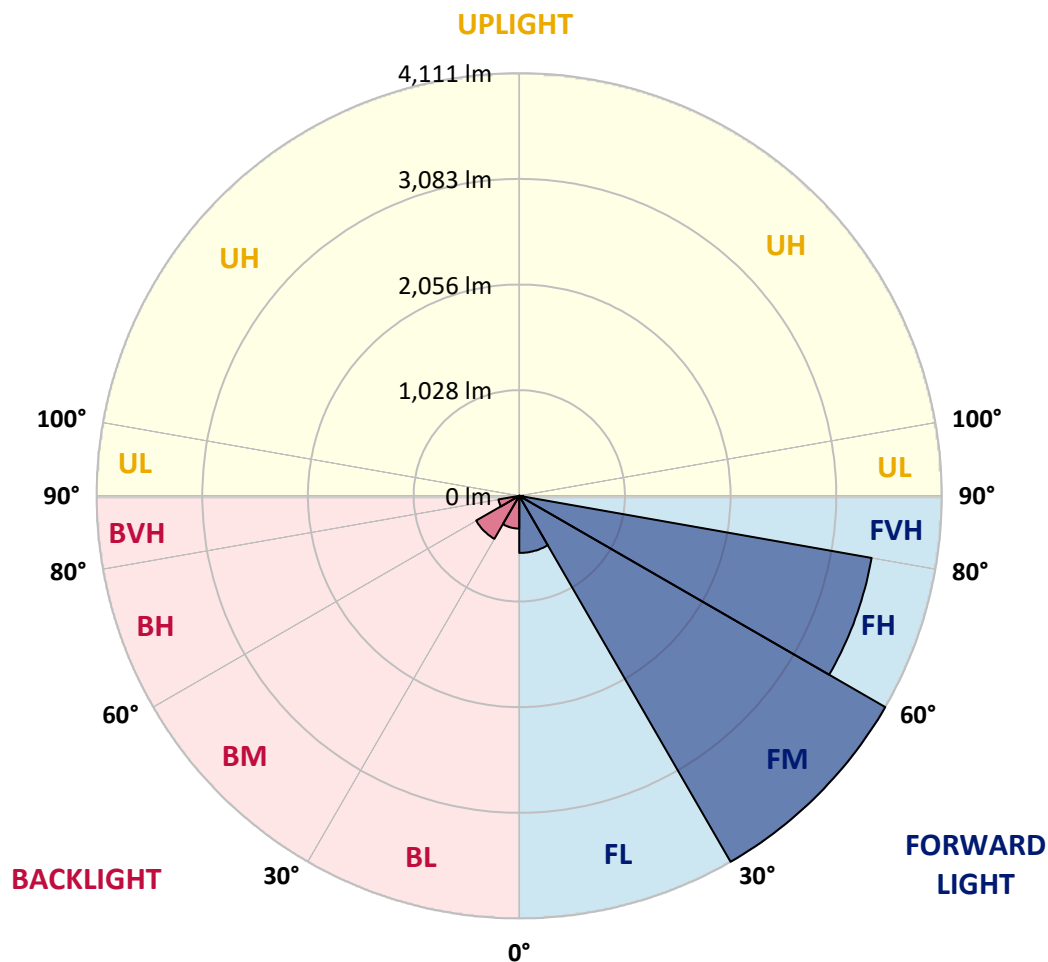
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	555.6	6.0			
FM	(30°-60°)	4111.0	44.7			
FH	(60°-80°)	3480.8	37.9			G2/5000
FVH	(80°-90°)	37.5	0.4			G1/100
BL	(0°-30°)	318.6	3.5	B1/500		
BM	(30°-60°)	483.5	5.3	B1/1000		
BH	(60°-80°)	205.3	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°	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4
2.5°	1066.7	1071.5	1075.0	1077.2	1079.8	1085.4	1087.2	1089.8	1091.1	1091.1	1094.1
5°	1024.6	1029.8	1037.2	1043.3	1055.4	1071.1	1082.4	1086.7	1094.5	1101.5	1105.4
7.5°	985.4	991.5	1000.2	1014.6	1035.4	1060.6	1084.1	1090.2	1105.4	1120.2	1127.6
10°	960.2	965.0	976.3	996.7	1024.1	1059.3	1092.4	1099.8	1125.8	1150.6	1164.5
12.5°	951.5	955.9	967.6	990.7	1024.6	1065.9	1111.5	1122.4	1160.6	1196.7	1216.3
15°	964.1	965.0	977.6	999.3	1032.8	1081.9	1143.2	1156.3	1204.5	1251.5	1275.8
17.5°	1012.8	1008.9	1015.4	1025.0	1051.5	1103.2	1176.7	1196.3	1260.6	1315.8	1338.8
20°	1134.5	1134.5	1119.8	1093.7	1094.1	1136.3	1221.9	1244.1	1322.8	1386.7	1407.5
22.5°	1342.8	1338.8	1309.3	1245.4	1186.7	1193.2	1277.1	1305.8	1397.5	1465.8	1472.7
25°	1593.1	1588.3	1542.7	1452.7	1351.0	1285.4	1351.9	1384.9	1486.6	1547.1	1532.7
27.5°	1858.3	1854.4	1809.2	1697.5	1552.7	1432.3	1441.0	1472.3	1577.5	1637.0	1591.4
30°	2115.2	2116.5	2071.7	1957.0	1793.1	1619.6	1554.0	1572.3	1665.7	1726.1	1660.9
32.5°	2359.5	2361.2	2322.5	2194.3	2041.3	1837.4	1710.5	1705.7	1768.3	1827.9	1753.1
35°	2577.3	2581.6	2555.1	2455.6	2293.4	2080.0	1913.5	1902.2	1913.9	1981.3	1894.4
37.5°	2787.2	2789.8	2769.8	2685.9	2550.3	2346.4	2170.0	2153.9	2128.7	2180.4	2080.9
40°	3017.2	3010.6	2987.6	2911.5	2795.0	2640.7	2445.6	2417.7	2373.8	2419.9	2326.0
42.5°	3231.0	3223.6	3227.6	3141.5	3043.3	2943.3	2766.8	2719.0	2693.3	2746.4	2626.8
45°	3498.4	3494.5	3507.5	3432.7	3353.2	3280.6	3135.0	3082.8	3071.5	3133.7	2990.7
47.5°	3762.2	3771.8	3812.2	3780.5	3748.3	3684.4	3524.9	3501.4	3508.4	3583.6	3374.5
50°	3982.2	3993.5	4104.3	4140.8	4187.3	4150.0	3990.0	3975.7	4003.0	4070.9	3787.4
52.5°	4141.3	4164.3	4302.1	4470.3	4639.9	4665.1	4505.5	4492.5	4529.4	4539.9	4106.5
55°	4251.7	4272.1	4428.2	4735.9	5081.1	5189.7	5090.6	5040.2	5033.3	4930.2	4442.1
57.5°	4271.2	4269.1	4493.4	4907.6	5427.1	5707.5	5644.9	5595.3	5452.7	5291.0	4826.8
60°	4160.8	4173.4	4433.8	4967.2	5644.4	6099.1	6103.9	6039.6	5817.4	5641.8	5199.7
62.5°	3820.9	3872.2	4135.2	4811.1	5641.8	6256.9	6440.3	6391.2	6125.6	5929.1	5577.9
65°	3269.7	3288.0	3538.8	4276.5	5260.6	6190.8	6743.3	6725.1	6403.4	6208.2	5772.2
67.5°	2387.7	2348.2	2611.6	3367.5	4453.8	5805.7	6960.7	6983.7	6617.7	6265.6	5565.3
68°	2179.1	2190.8	2396.0	3142.8	4242.6	5669.6	6975.0	7010.2	6639.0	6228.2	5452.3
70°	1298.8	1321.5	1504.5	2163.9	3227.6	4899.8	6820.3	6900.7	6512.1	5842.6	4715.9
72.5°	331.7	358.6	531.6	968.5	1843.5	3452.3	5757.4	5893.5	5654.0	4739.8	3183.7
75°	136.5	143.4	190.0	319.1	686.8	1555.3	3794.8	4086.1	3919.6	2837.6	1438.8
77.5°	94.3	99.1	122.1	176.9	297.3	527.3	1860.5	2070.9	1865.7	968.5	313.8
80°	67.8	71.7	87.4	117.8	170.8	188.2	606.4	701.2	556.8	212.6	77.8
82.5°	40.4	43.5	65.2	83.9	103.9	90.0	150.8	171.3	161.3	105.6	34.8
85°	20.0	23.5	43.9	60.0	56.1	37.8	46.1	51.3	63.5	64.3	18.7
87.5°	1.3	2.6	25.6	36.1	15.6	8.7	13.5	16.5	22.6	31.7	7.8
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°	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4
2.5°	1095.4	1095.8	1092.8	1091.5	1092.4	1087.2	1085.0	1085.9	1085.9	1087.2	1085.0
5°	1106.3	1106.3	1101.1	1094.1	1090.2	1080.2	1073.7	1071.9	1070.6	1069.8	1068.0
7.5°	1129.8	1127.1	1118.0	1102.8	1089.8	1068.0	1051.5	1042.8	1038.5	1036.7	1035.4
10°	1167.6	1162.8	1147.6	1119.3	1089.3	1050.6	1014.6	988.9	967.6	958.9	953.7
12.5°	1218.4	1211.5	1185.8	1138.9	1086.3	1015.0	936.8	861.6	791.6	762.9	748.5
15°	1277.1	1267.1	1226.7	1155.4	1068.5	934.6	764.6	632.9	536.0	499.5	483.8
17.5°	1336.7	1323.6	1262.3	1165.8	1015.0	768.1	536.4	405.1	340.4	323.0	316.9
20°	1396.7	1377.5	1293.2	1158.0	894.2	553.8	353.8	296.0	277.3	272.1	270.4
22.5°	1453.6	1424.0	1321.0	1127.6	708.1	371.7	279.9	261.7	255.6	252.6	251.7
25°	1503.2	1461.9	1345.4	1033.7	501.2	280.8	252.1	246.0	238.2	232.6	233.0
27.5°	1549.7	1499.7	1360.1	878.9	334.3	239.9	233.4	225.2	210.8	202.6	202.6
30°	1605.7	1550.1	1371.0	676.4	246.0	212.1	206.9	194.3	174.7	163.9	163.9
32.5°	1690.1	1626.6	1364.1	474.7	203.9	186.5	174.3	156.9	135.6	125.2	124.8
35°	1819.2	1744.8	1314.5	311.2	180.0	162.1	142.6	121.3	102.6	93.9	93.5
37.5°	1993.0	1903.1	1203.2	222.6	161.3	139.5	116.1	92.6	78.7	73.0	72.6
40°	2218.6	2086.9	1044.1	180.4	143.9	117.8	89.5	71.7	62.2	57.8	58.2
42.5°	2489.5	2283.9	853.3	155.6	126.9	96.9	70.0	56.5	50.4	47.4	46.5
45°	2790.3	2478.2	653.3	138.7	110.0	78.2	54.8	44.8	40.0	38.3	38.3
47.5°	3121.1	2667.2	478.2	123.9	91.7	60.4	43.9	36.5	32.6	31.3	30.9
50°	3421.4	2798.5	344.7	108.2	75.2	47.8	35.6	30.4	27.8	26.1	26.1
52.5°	3671.8	2839.8	253.9	91.3	60.9	38.3	29.6	26.1	23.5	22.2	22.2
55°	3892.2	2822.9	188.7	75.2	49.1	31.3	25.2	22.2	20.0	18.7	18.7
57.5°	4103.5	2768.1	140.8	61.3	39.6	25.2	21.3	18.7	16.5	15.6	15.6
60°	4276.0	2676.8	104.8	49.6	31.7	20.4	17.8	15.2	13.5	12.2	12.2
62.5°	4416.0	2576.0	76.9	40.9	25.2	16.1	13.9	12.6	10.0	8.7	8.7
65°	4416.9	2408.6	57.8	33.9	19.6	12.6	10.4	10.0	6.5	5.2	4.8
67.5°	4097.4	2076.5	44.3	29.1	15.2	9.6	7.8	8.3	3.5	2.2	1.7
68°	3981.3	1992.2	41.7	28.7	14.3	9.1	7.4	8.3	3.0	1.7	1.3
70°	3356.7	1584.9	33.5	27.8	12.6	7.0	6.1	8.3	2.6	1.3	0.9
72.5°	2146.9	919.8	24.8	22.2	9.6	5.2	3.9	7.4	2.6	0.9	0.4
75°	913.7	285.2	17.0	15.6	5.7	3.9	2.6	4.8	1.7	0.4	0.0
77.5°	192.6	64.3	10.0	9.6	3.9	2.6	1.7	1.3	0.4	0.0	0.0
80°	49.6	18.7	5.2	4.8	2.2	1.3	0.9	0.0	0.0	0.0	0.0
82.5°	15.6	7.4	3.0	2.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.8	4.3	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	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)