

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: P451754

Luminaire Tested: **GLAN-SA2C-827-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7518 lumens
Efficiency: N/A
Efficacy: 69.6 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): 108
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

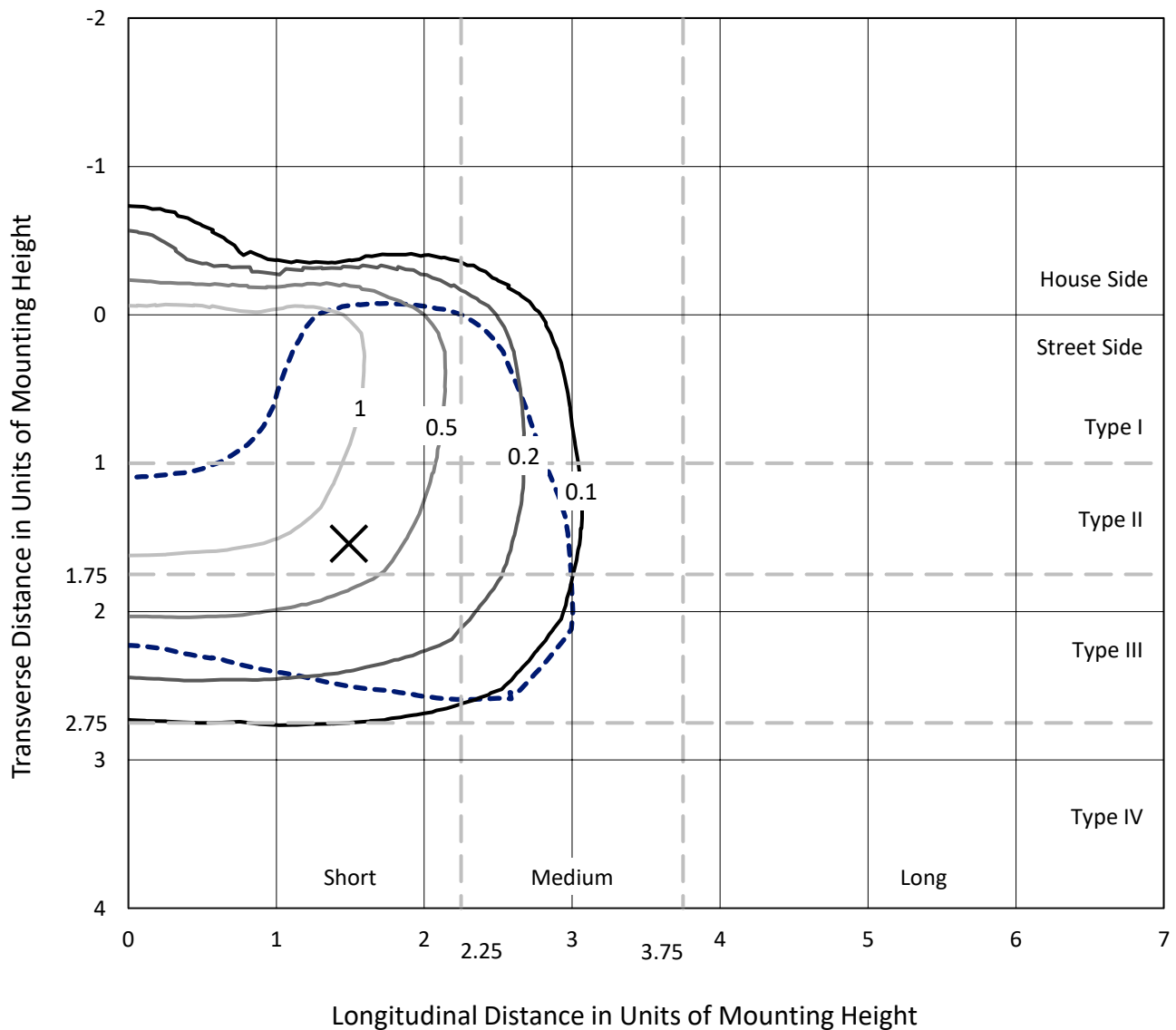


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Iso-Footcandle Lines of Horizontal Illumination

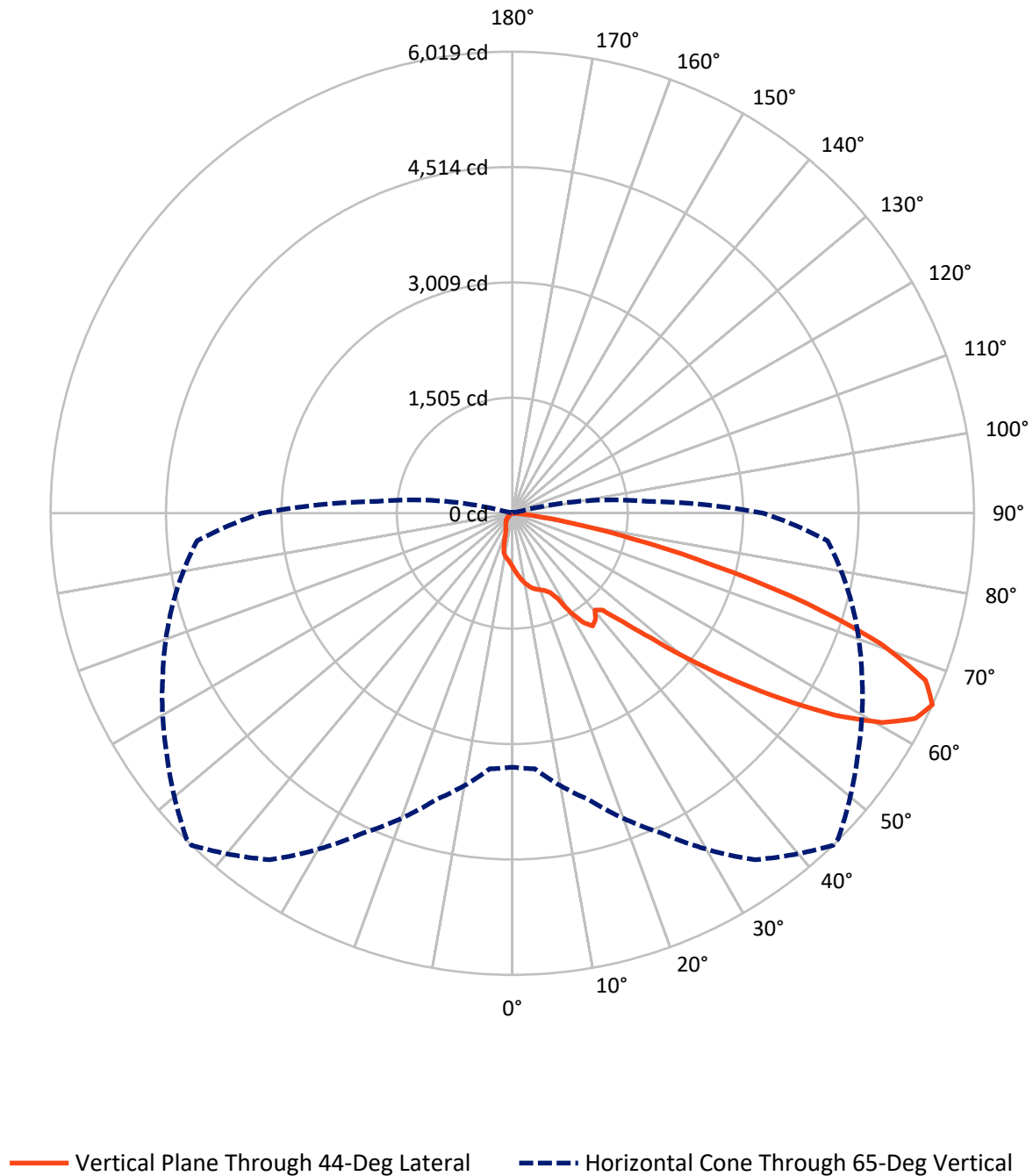
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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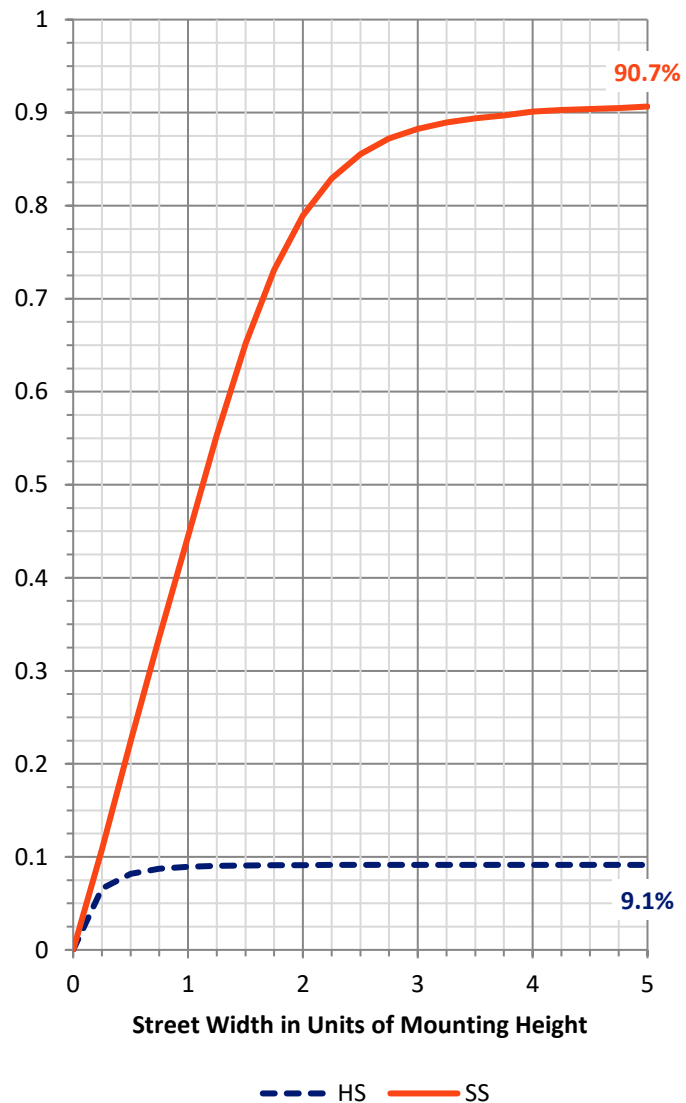
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	692.7	0.0	692.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	6825.3	0.0	6825.3
	% Fixture	90.8	0.0	90.8
Total	Lumens	7518.0	0.0	7518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	0.9
10°-20°	209.4	2.8
20°-30°	355.2	4.7
30°-40°	590.5	7.9
40°-50°	1031.0	13.7
50°-60°	2014.3	26.8
60°-70°	2337.0	31.1
70°-80°	851.0	11.3
80°-90°	60.0	0.8
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°	7518.0	100.0
0°-180°	7518.0	100.0

Coefficient of Utilization



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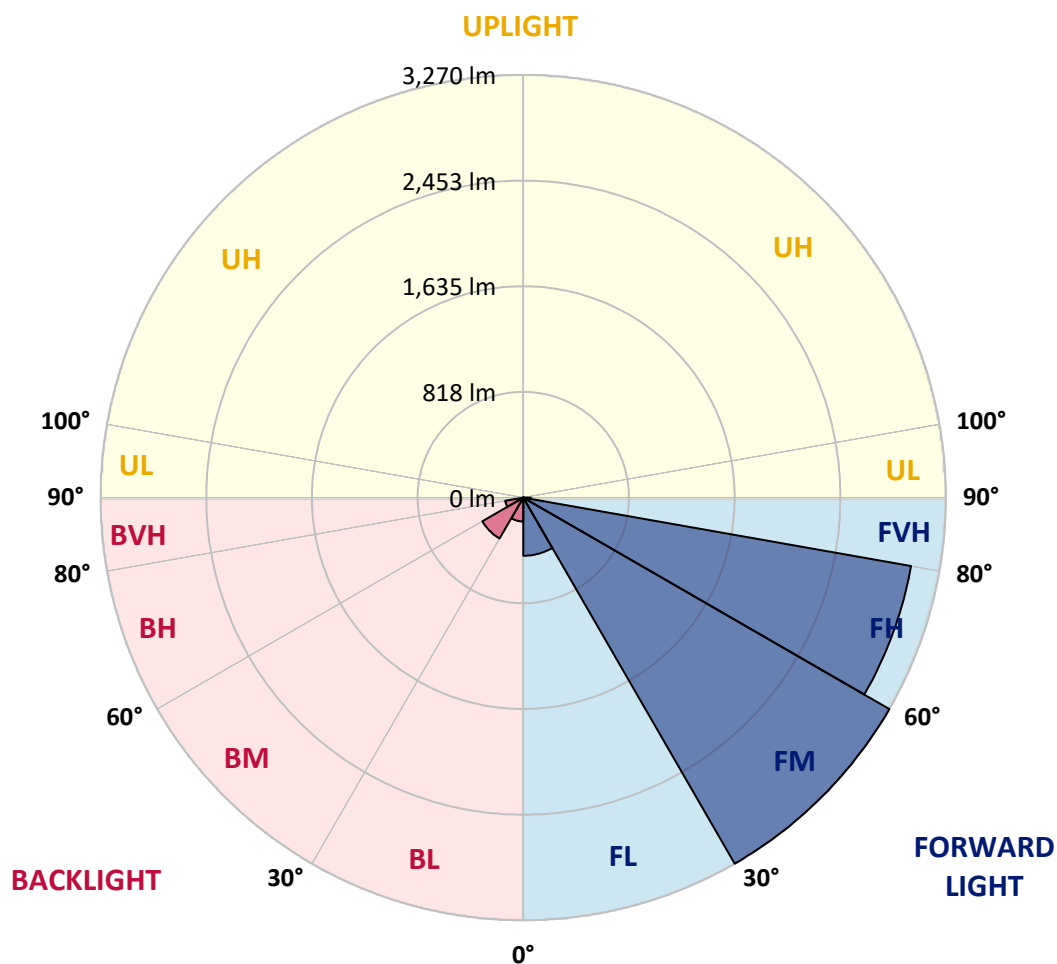
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	449.6	6.0			
FM	(30°-60°)	3270.3	43.5			
FH	(60°-80°)	3046.2	40.5			G2/5000
FVH	(80°-90°)	59.1	0.8			G1/100
BL	(0°-30°)	184.5	2.5	B1/500		
BM	(30°-60°)	365.5	4.9	B1/1000		
BH	(60°-80°)	141.8	1.9	B1/500		G1/500
BVH	(80°-90°)	0.8	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°	44°	45°	55°	65°	75°	85°
0°	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7
2.5°	787.6	784.1	782.4	773.2	766.3	757.7	757.7	746.8	734.2	720.4	707.7
5°	875.5	869.7	862.3	854.2	838.1	815.2	815.2	792.2	765.8	742.2	716.4
7.5°	959.9	954.8	942.1	926.6	900.2	876.1	874.3	841.0	809.4	773.8	737.0
10°	1034.0	1030.0	1019.1	989.2	961.7	930.1	929.5	892.1	855.4	811.7	766.3
12.5°	1085.7	1086.3	1072.0	1043.2	1007.6	977.7	975.4	938.7	900.2	853.1	797.4
15°	1122.5	1122.5	1107.6	1075.4	1043.2	1016.8	1014.5	982.3	942.7	891.6	831.3
17.5°	1132.9	1136.3	1120.2	1091.5	1065.6	1042.7	1042.1	1015.1	983.5	934.1	865.7
20°	1128.8	1132.3	1119.6	1097.2	1079.4	1066.2	1064.5	1053.6	1024.3	977.7	902.5
22.5°	1120.2	1123.7	1114.5	1101.3	1092.6	1096.7	1093.8	1103.0	1087.5	1031.2	946.1
25°	1121.9	1125.4	1118.5	1111.0	1118.5	1143.2	1150.7	1190.3	1176.5	1099.0	993.3
27.5°	1175.9	1182.8	1173.1	1176.5	1202.9	1260.4	1274.7	1343.1	1282.2	1185.1	1066.8
30°	1296.0	1291.4	1273.0	1289.7	1381.6	1503.4	1499.4	1488.4	1393.1	1284.5	1154.1
32.5°	1405.1	1401.1	1400.0	1471.8	1638.4	1697.6	1694.7	1589.0	1492.5	1398.3	1240.3
35°	1449.4	1433.9	1430.4	1604.5	1883.1	1805.0	1787.2	1630.3	1613.1	1522.3	1328.2
37.5°	1582.7	1571.7	1518.3	1626.3	1785.4	1759.6	1745.8	1701.6	1741.8	1632.1	1427.6
40°	1857.3	1826.8	1778.6	1672.8	1647.0	1657.9	1671.7	1792.9	1894.0	1782.0	1560.3
42.5°	2198.5	2191.6	2102.0	1904.9	1711.3	1726.3	1744.1	1983.6	2112.9	2007.8	1776.8
45°	2608.1	2617.8	2488.6	2255.9	2002.0	2014.7	2040.5	2265.1	2409.3	2358.8	2117.5
47.5°	2980.3	2972.9	2929.2	2687.4	2453.0	2424.8	2466.8	2626.5	2819.5	2827.5	2540.3
50°	3354.9	3394.5	3329.6	3234.8	3060.8	3001.6	2986.1	3064.2	3358.3	3319.8	3048.1
52.5°	3893.2	3913.8	3792.1	3767.9	3807.6	3615.7	3600.2	3619.1	3882.3	3750.1	3428.4
55°	4231.5	4219.5	4174.1	4362.5	4519.3	4279.8	4260.3	4183.8	4317.1	4054.0	3794.4
57.5°	4338.4	4355.6	4461.3	4802.0	5173.1	4969.7	4934.1	4717.0	4630.8	4337.2	4131.0
60°	4290.7	4322.3	4550.4	5057.0	5571.8	5541.3	5510.9	5146.1	4856.0	4573.9	4367.1
62.5°	3951.2	3995.4	4360.2	5011.7	5706.8	5896.9	5859.0	5413.8	5005.9	4688.8	4408.5
65°	3311.2	3344.0	3867.9	4599.8	5514.9	6018.7	6004.9	5497.7	5029.5	4583.7	4125.3
67.5°	2360.5	2471.9	2957.4	3876.5	4947.3	5810.7	5834.3	5397.1	4808.3	4129.3	3416.4
70°	1483.8	1559.7	1907.8	2775.3	3966.1	5097.8	5175.4	4937.0	4172.9	3218.7	2287.0
72.5°	707.7	764.0	1012.2	1756.7	2799.4	4010.9	4072.4	4052.9	3226.8	2027.9	1180.0
75°	315.4	336.6	483.1	896.7	1807.3	2696.0	2855.1	2881.5	2016.4	992.1	459.0
77.5°	160.9	161.4	226.3	434.3	902.5	1608.5	1640.1	1732.6	1093.2	437.2	159.7
80°	85.6	91.3	120.1	205.1	468.2	792.2	788.2	866.3	484.9	214.3	53.4
82.5°	38.5	42.5	67.8	107.4	228.6	300.4	324.0	354.4	208.0	136.7	23.6
85°	11.5	13.8	33.3	54.0	82.7	86.7	97.1	125.2	117.8	97.1	12.1
87.5°	1.7	1.7	13.8	14.9	12.1	15.5	16.1	17.8	37.9	35.6	6.3
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°	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7	699.7
2.5°	700.9	696.8	682.5	670.4	660.1	653.7	646.3	641.7	639.4	637.7	638.2
5°	703.7	694.0	669.3	649.7	634.8	618.7	607.8	601.5	598.6	594.0	594.0
7.5°	719.8	704.3	669.8	640.0	614.1	592.3	571.6	564.1	559.0	557.8	556.7
10°	742.8	723.3	676.1	634.8	598.0	568.1	538.9	513.0	492.9	480.8	479.1
12.5°	771.5	743.4	685.9	631.3	584.2	531.4	453.8	401.6	366.5	355.6	357.3
15°	797.9	767.5	695.7	628.5	559.0	440.6	352.7	293.0	275.2	273.4	274.0
17.5°	829.5	793.3	707.2	624.4	489.4	336.6	262.0	245.9	249.3	255.1	254.5
20°	862.3	820.9	721.0	600.3	390.6	253.3	231.5	233.2	238.4	243.6	244.7
22.5°	897.3	852.5	737.0	542.3	298.1	220.6	219.4	221.7	226.9	232.7	233.8
25°	945.6	892.1	749.1	466.5	225.8	203.9	206.2	210.3	214.9	221.2	222.3
27.5°	1007.6	945.6	755.4	367.7	195.3	189.0	189.6	195.3	201.1	206.8	206.8
30°	1088.0	1009.3	742.8	278.0	180.4	174.6	172.3	175.8	183.3	189.0	189.6
32.5°	1159.9	1069.7	709.5	212.6	169.5	161.4	155.7	156.3	159.1	162.6	163.1
35°	1231.7	1128.3	652.6	178.7	158.0	148.8	140.2	135.6	133.3	131.6	133.3
37.5°	1323.6	1201.2	576.8	162.6	148.2	136.7	124.7	114.9	106.9	101.7	102.8
40°	1441.9	1302.3	487.1	152.2	139.0	125.2	109.1	96.5	82.7	78.1	75.8
42.5°	1637.2	1455.7	392.9	143.6	129.8	113.2	93.1	75.8	63.2	58.6	59.7
45°	1945.7	1649.3	302.7	134.4	120.6	100.0	78.1	59.7	49.4	47.1	48.3
47.5°	2354.7	1899.8	233.2	124.1	109.1	85.6	61.5	47.1	40.8	40.2	39.6
50°	2739.6	2133.0	194.7	112.6	95.4	71.2	50.6	39.6	35.6	35.0	35.0
52.5°	3087.8	2300.2	158.6	99.4	80.4	58.6	42.5	35.0	31.6	29.9	29.9
55°	3397.4	2409.3	128.7	83.3	63.2	46.5	36.8	31.6	27.6	25.3	24.7
57.5°	3631.2	2422.5	96.5	66.6	47.1	36.2	31.6	27.6	23.0	20.1	19.0
60°	3731.2	2308.2	71.2	50.6	35.0	28.7	25.3	22.4	17.2	14.4	13.8
62.5°	3630.6	2085.9	52.9	38.5	27.0	21.3	17.8	16.7	12.1	8.6	8.0
65°	3270.4	1764.8	41.9	29.3	20.1	15.5	11.5	10.9	7.5	4.0	3.4
67.5°	2620.1	1382.2	33.3	21.8	14.4	10.3	7.5	6.9	4.0	1.1	1.1
70°	1703.9	883.5	27.0	16.1	9.2	6.9	4.6	3.4	2.3	0.6	0.0
72.5°	842.7	413.0	21.8	12.6	6.3	3.4	1.7	1.1	1.7	0.0	0.0
75°	326.9	147.1	16.1	8.6	3.4	1.7	1.1	0.0	0.6	0.0	0.0
77.5°	108.6	48.8	9.8	4.6	2.3	1.1	0.0	0.0	0.0	0.0	0.0
80°	40.2	19.0	5.2	2.9	1.1	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	16.1	7.5	3.4	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.0	4.6	2.3	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	3.4	2.3	1.7	1.1	0.6	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)