

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: P530189

Luminaire Tested: **GLAN-SA5B-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12357 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

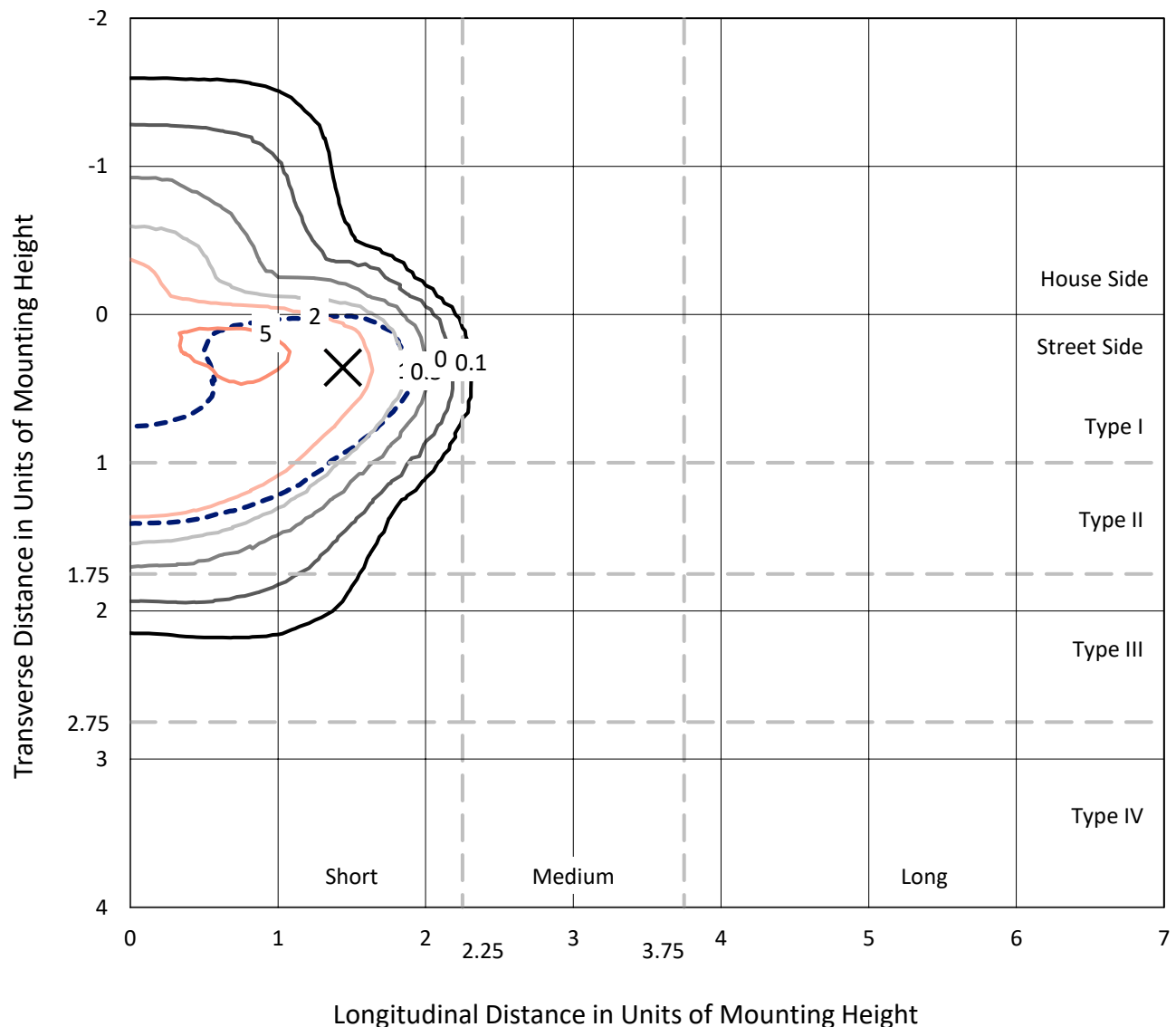
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

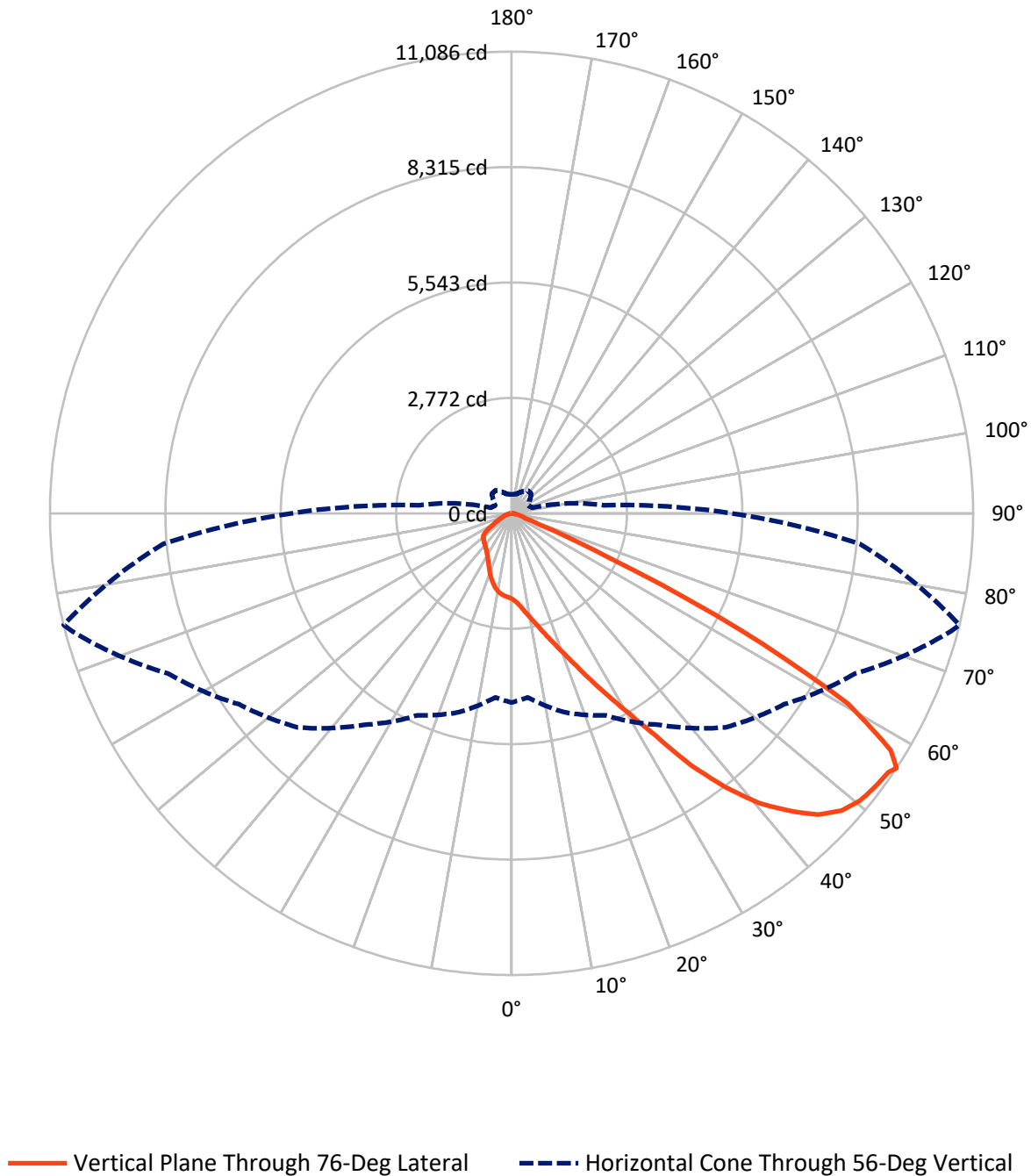
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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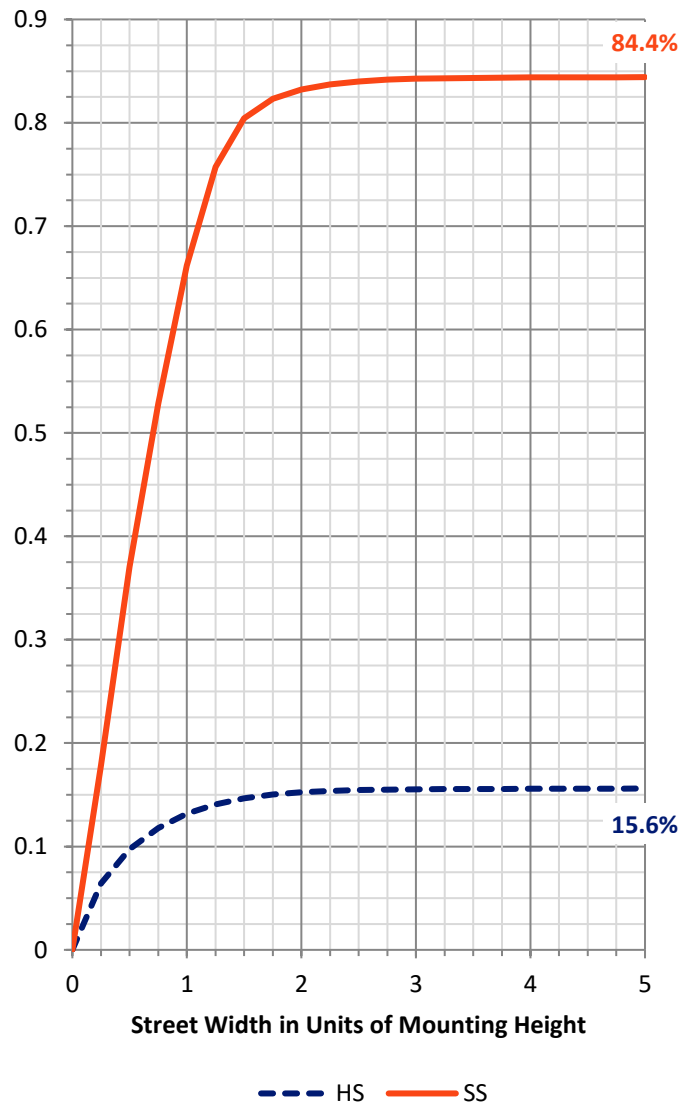
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1941.2	0.0	1941.2
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	10415.8	0.0	10415.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	12357.0	0.0	12357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	1.7
10°-20°	665.7	5.4
20°-30°	1207.0	9.8
30°-40°	2081.5	16.8
40°-50°	3381.5	27.4
50°-60°	3564.2	28.8
60°-70°	1089.0	8.8
70°-80°	139.6	1.1
80°-90°	21.2	0.2
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°	12357.0	100.0
0°-180°	12357.0	100.0

Coefficient of Utilization



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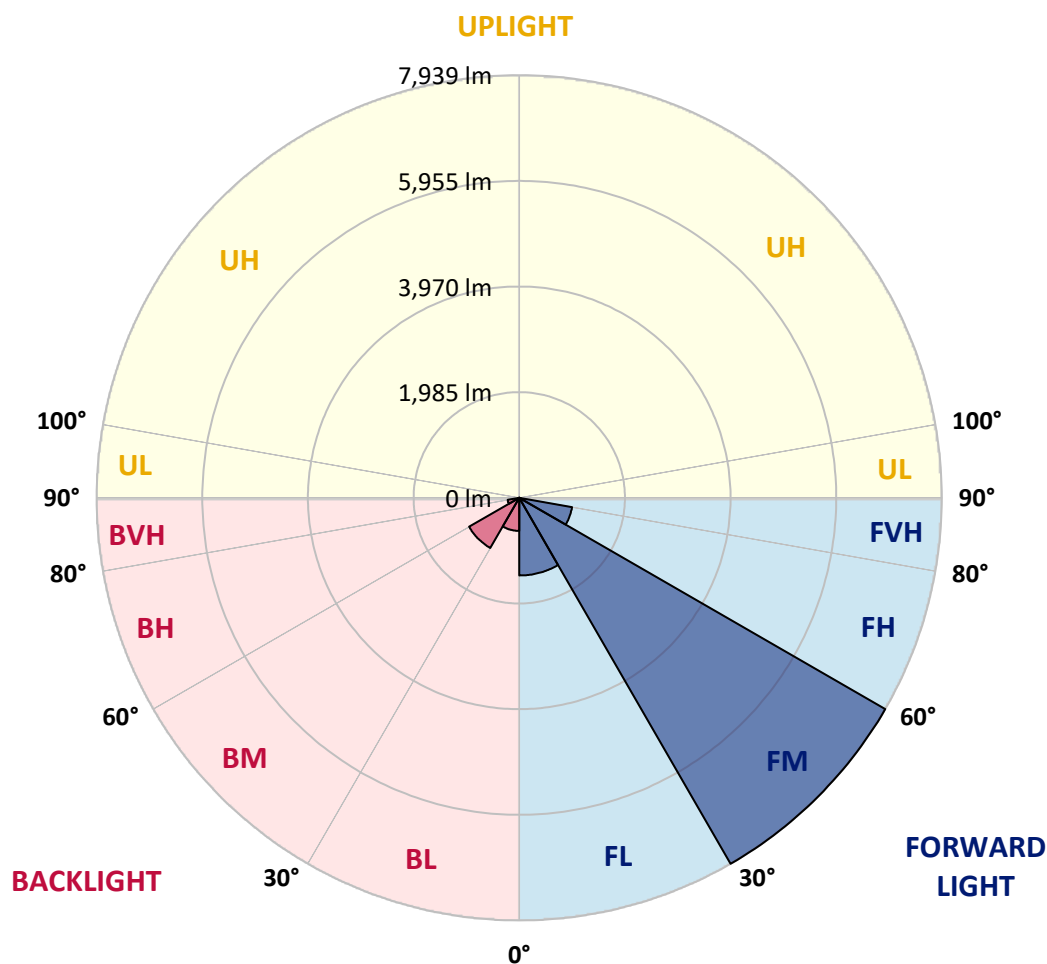
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1458.9	11.8			
FM	(30°-60°)	7939.4	64.2			
FH	(60°-80°)	1007.2	8.2			G1/1800
FVH	(80°-90°)	10.4	0.1			G1/100
BL	(0°-30°)	621.0	5.0	B2/1000		
BM	(30°-60°)	1087.9	8.8	B2/2500		
BH	(60°-80°)	221.5	1.8	B1/500		G1/500
BVH	(80°-90°)	10.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8
2.5°	2368.9	2314.2	2316.5	2312.0	2305.1	2280.1	2204.9	2193.5	2143.4	2129.7	2084.2
5°	2653.6	2605.8	2633.1	2592.1	2553.4	2530.6	2407.6	2350.7	2271.0	2241.3	2177.6
7.5°	2831.3	2808.5	2799.4	2801.7	2765.2	2708.3	2653.6	2528.3	2421.3	2398.5	2264.1
10°	2917.8	2904.2	2917.8	2911.0	2927.0	2933.8	2838.1	2763.0	2605.8	2567.1	2357.5
12.5°	2938.3	2965.7	2977.1	3006.7	3045.4	3111.5	3104.6	3002.1	2792.6	2767.5	2501.0
15°	2988.5	3011.2	2999.8	3047.7	3120.6	3232.2	3291.4	3275.5	3050.0	3004.4	2667.3
17.5°	3034.0	2993.0	3031.7	3127.4	3200.3	3371.1	3514.6	3580.7	3330.1	3277.7	2819.9
20°	3095.5	3084.1	3077.3	3125.1	3255.0	3482.7	3767.5	3888.2	3644.5	3589.8	3038.6
22.5°	3282.3	3284.6	3280.0	3209.4	3302.8	3560.2	3988.4	4286.8	4020.3	3974.7	3286.8
25°	3528.3	3498.7	3475.9	3419.0	3407.6	3630.8	4211.6	4774.2	4471.3	4439.4	3555.6
27.5°	3788.0	3788.0	3719.6	3667.2	3594.3	3806.2	4416.6	5248.0	5015.7	4972.4	3790.2
30°	4070.4	4086.3	4077.2	3965.6	3920.1	3997.5	4626.2	5853.9	5639.8	5585.1	4177.5
32.5°	4487.2	4453.1	4491.8	4398.4	4264.0	4332.3	4956.5	6396.0	6450.7	6373.2	4685.4
35°	5038.5	5018.0	4992.9	4840.3	4680.9	4735.5	5423.4	7063.4	7468.9	7430.1	5197.9
37.5°	5532.7	5521.4	5500.9	5396.1	5211.6	5277.6	5954.1	7758.1	8462.0	8334.4	5922.2
40°	6052.1	6113.6	6047.5	5954.1	5785.6	5931.4	6578.2	8170.4	9297.9	9143.0	6475.7
42.5°	6755.9	6708.1	6737.7	6566.9	6475.7	6635.2	7204.6	8582.7	9947.1	9762.6	7063.4
45°	7505.3	7507.6	7427.9	7373.2	7136.3	7309.4	7589.6	8810.5	10464.2	10320.7	7507.6
47.5°	7985.9	7983.6	8070.2	8156.8	7913.0	7742.2	7851.5	9026.9	10730.7	10664.6	7669.3
50°	7910.8	7933.5	8045.1	8368.6	8496.1	8266.1	8097.5	8963.1	10851.4	10844.5	7808.3
52.5°	6881.2	6956.4	7143.1	7610.1	8252.4	8537.1	8354.9	9081.5	10910.6	10922.0	8015.5
55°	5238.9	5279.9	5635.2	6202.4	6913.1	7888.0	8252.4	9174.9	10956.2	10976.7	8266.1
56°	4544.2	4434.9	4947.4	5350.5	6200.1	7266.1	7992.8	9102.0	10928.8	11086.0	8391.4
57.5°	3430.3	3357.5	3772.0	4275.4	5093.1	6218.4	7186.4	8758.1	10744.3	10742.0	8211.4
60°	2086.5	2013.6	2332.5	2628.6	3086.4	3829.0	4856.2	6974.6	9083.8	9275.1	6648.9
62.5°	1241.4	1286.9	1601.3	1781.2	1929.3	2006.7	2512.4	4145.6	6061.2	6197.9	4125.1
65°	826.8	842.8	1079.7	1375.8	1441.8	1148.0	1022.7	1678.7	2628.6	2544.3	1701.5
67.5°	510.2	546.7	724.3	1034.1	1145.7	838.2	485.2	626.4	724.3	724.3	492.0
70°	309.8	328.0	482.9	703.8	785.8	539.8	353.1	353.1	348.5	341.7	293.8
72.5°	148.1	159.4	246.0	362.2	369.0	284.7	273.3	298.4	291.6	289.3	243.7
75°	63.8	68.3	86.6	113.9	129.8	120.7	166.3	214.1	220.9	214.1	175.4
77.5°	20.5	22.8	31.9	41.0	43.3	52.4	70.6	88.8	102.5	95.7	86.6
80°	2.3	4.6	9.1	20.5	31.9	41.0	52.4	59.2	66.1	66.1	61.5
82.5°	2.3	2.3	9.1	18.2	29.6	38.7	50.1	56.9	66.1	68.3	63.8
85°	0.0	2.3	6.8	15.9	25.1	25.1	22.8	22.8	15.9	15.9	15.9
87.5°	0.0	0.0	2.3	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6
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°	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8
2.5°	2075.1	2070.5	2009.0	1970.3	1949.8	1908.8	1883.7	1865.5	1851.8	1835.9	1838.2
5°	2102.4	2086.5	1984.0	1913.3	1829.1	1783.5	1744.8	1712.9	1692.4	1687.8	1678.7
7.5°	2179.8	2095.6	1940.7	1813.1	1706.1	1660.5	1626.3	1605.8	1615.0	1594.5	1610.4
10°	2239.1	2113.8	1888.3	1703.8	1596.7	1562.6	1544.3	1560.3	1583.1	1574.0	1562.6
12.5°	2312.0	2132.0	1804.0	1599.0	1498.8	1473.7	1505.6	1535.2	1580.8	1599.0	1576.2
15°	2394.0	2152.5	1697.0	1478.3	1414.5	1435.0	1489.7	1542.1	1587.6	1610.4	1624.1
17.5°	2494.2	2145.7	1592.2	1382.6	1334.8	1394.0	1460.1	1507.9	1576.2	1610.4	1601.3
20°	2587.6	2122.9	1476.0	1286.9	1289.2	1343.9	1398.6	1476.0	1512.5	1558.0	1542.1
22.5°	2676.4	2081.9	1355.3	1220.9	1220.9	1305.2	1332.5	1382.6	1414.5	1437.3	1435.0
25°	2801.7	2004.5	1255.1	1157.1	1184.4	1239.1	1261.9	1277.8	1264.2	1282.4	1284.7
27.5°	2890.5	1924.7	1173.1	1100.2	1150.3	1191.3	1184.4	1175.3	1143.4	1118.4	1134.3
30°	2986.2	1831.3	1102.4	1061.4	1088.8	1125.2	1097.9	1070.6	1020.4	979.4	981.7
32.5°	3122.8	1788.1	1040.9	1015.9	1052.3	1056.9	1027.3	986.3	936.2	897.4	895.2
35°	3378.0	1760.7	988.6	986.3	993.1	995.4	965.8	915.7	895.2	863.3	874.7
37.5°	3633.1	1747.1	952.1	943.0	940.7	943.0	908.8	861.0	899.7	897.4	902.0
40°	3958.8	1808.6	899.7	888.3	890.6	890.6	847.3	833.7	902.0	908.8	911.1
42.5°	4289.1	1886.0	865.6	829.1	838.2	838.2	815.4	799.5	847.3	801.8	794.9
45°	4576.1	1999.9	829.1	769.9	792.7	804.1	797.2	769.9	740.3	662.8	662.8
47.5°	4669.5	2100.1	785.8	712.9	731.2	781.3	760.8	703.8	651.4	587.7	583.1
50°	4833.5	2209.5	751.7	646.9	685.6	747.1	726.6	669.7	610.4	564.9	567.2
52.5°	5002.0	2334.7	687.9	569.4	617.3	719.8	719.8	656.0	564.9	533.0	528.4
55°	5254.9	2330.2	574.0	466.9	551.2	678.8	690.2	587.7	505.7	480.6	480.6
56°	5291.3	2225.4	517.1	437.3	521.6	667.4	669.7	569.4	482.9	455.6	455.6
57.5°	5018.0	2009.0	453.3	400.9	485.2	646.9	649.2	553.5	464.7	425.9	421.4
60°	3860.8	1359.8	378.1	357.6	439.6	583.1	594.5	503.4	407.7	378.1	375.8
62.5°	2179.8	753.9	332.6	323.4	378.1	496.6	530.7	439.6	346.2	330.3	334.8
65°	995.4	414.6	280.2	261.9	305.2	382.7	428.2	362.2	284.7	266.5	266.5
67.5°	364.4	282.4	239.2	207.3	214.1	248.3	277.9	234.6	189.1	161.7	168.6
70°	259.7	236.9	209.6	179.9	166.3	161.7	159.4	132.1	93.4	72.9	77.4
72.5°	209.6	195.9	175.4	152.6	129.8	109.3	93.4	68.3	43.3	29.6	27.3
75°	150.3	143.5	127.6	109.3	91.1	77.4	63.8	43.3	22.8	11.4	11.4
77.5°	77.4	77.4	75.2	68.3	56.9	45.6	36.4	25.1	13.7	4.6	4.6
80°	59.2	63.8	66.1	59.2	52.4	41.0	29.6	18.2	9.1	2.3	2.3
82.5°	56.9	66.1	70.6	61.5	52.4	38.7	29.6	18.2	9.1	2.3	2.3
85°	13.7	13.7	20.5	22.8	29.6	31.9	25.1	15.9	6.8	2.3	2.3
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3	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)