

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: P322175

Luminaire Tested: **GAN-SA1D-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322175
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-SA1D-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4950 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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



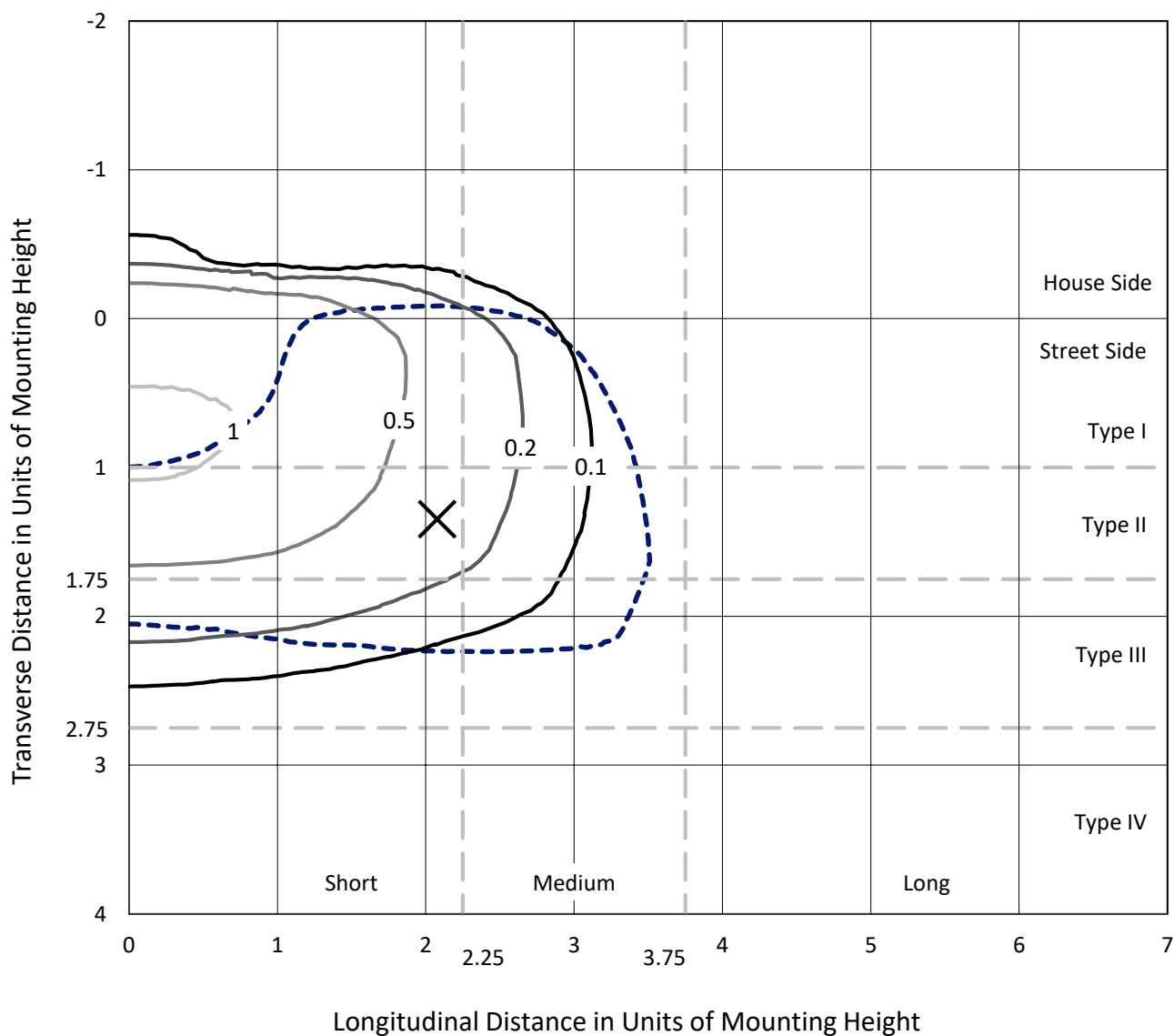
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

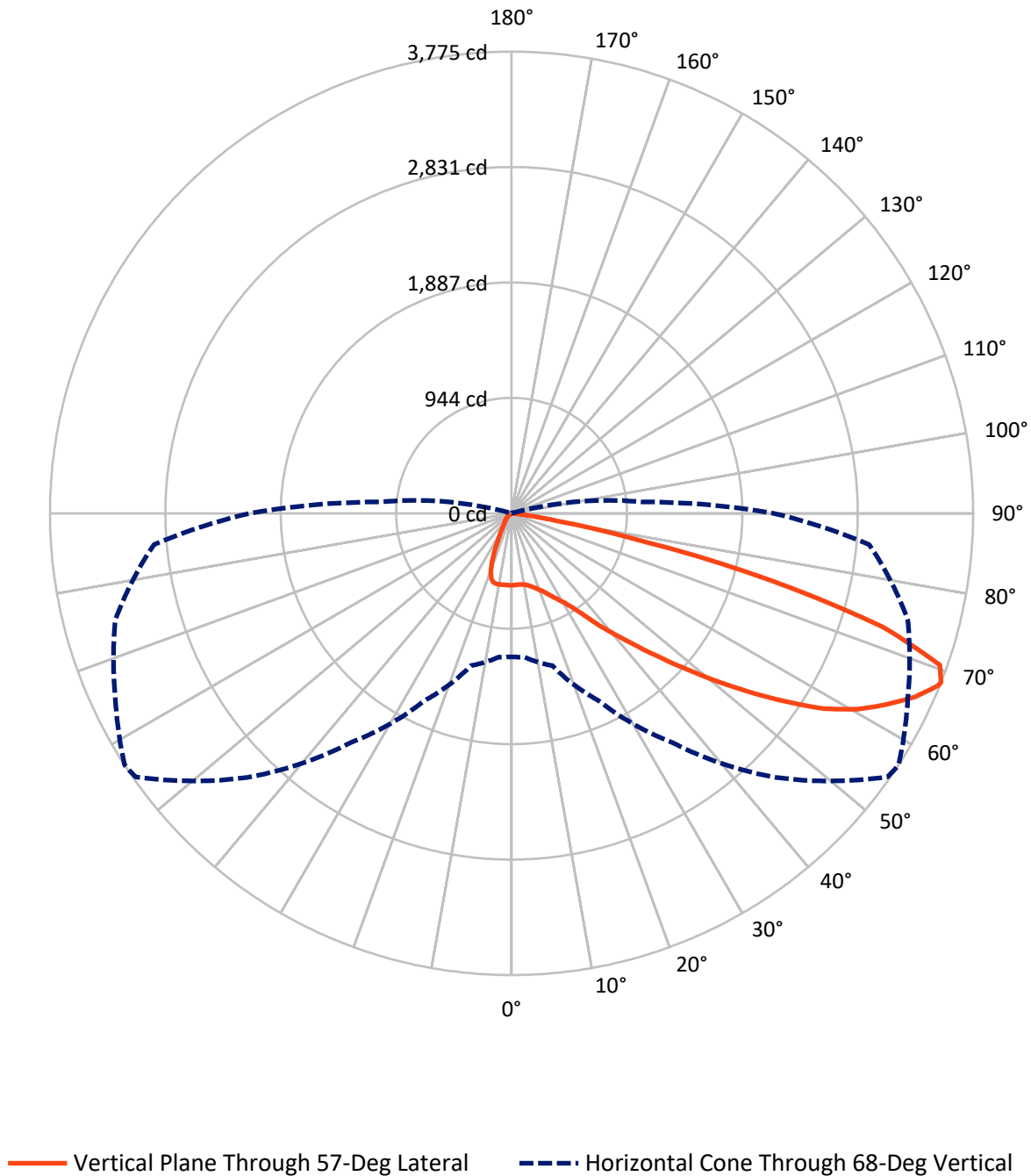


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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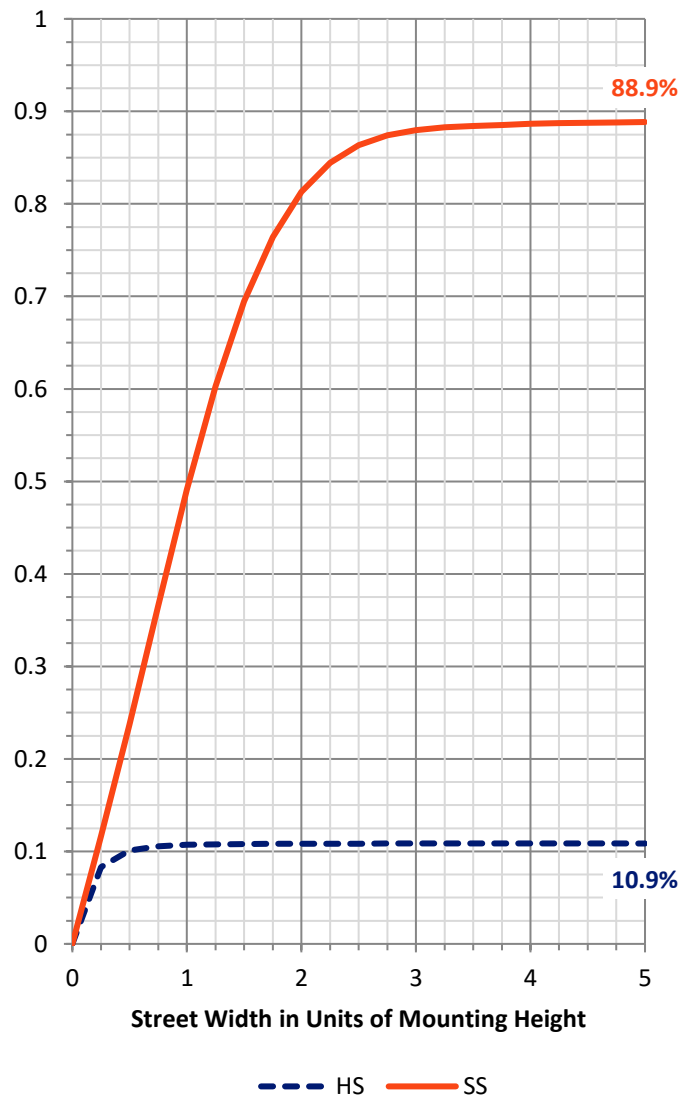
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	542.8	0.0	542.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	4407.2	0.0	4407.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	4950.0	0.0	4950.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	1.1
10°-20°	152.5	3.1
20°-30°	263.1	5.3
30°-40°	454.2	9.2
40°-50°	776.9	15.7
50°-60°	1242.9	25.1
60°-70°	1436.0	29.0
70°-80°	548.7	11.1
80°-90°	20.6	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°	4950.0	100.0
0°-180°	4950.0	100.0

Coefficient of Utilization



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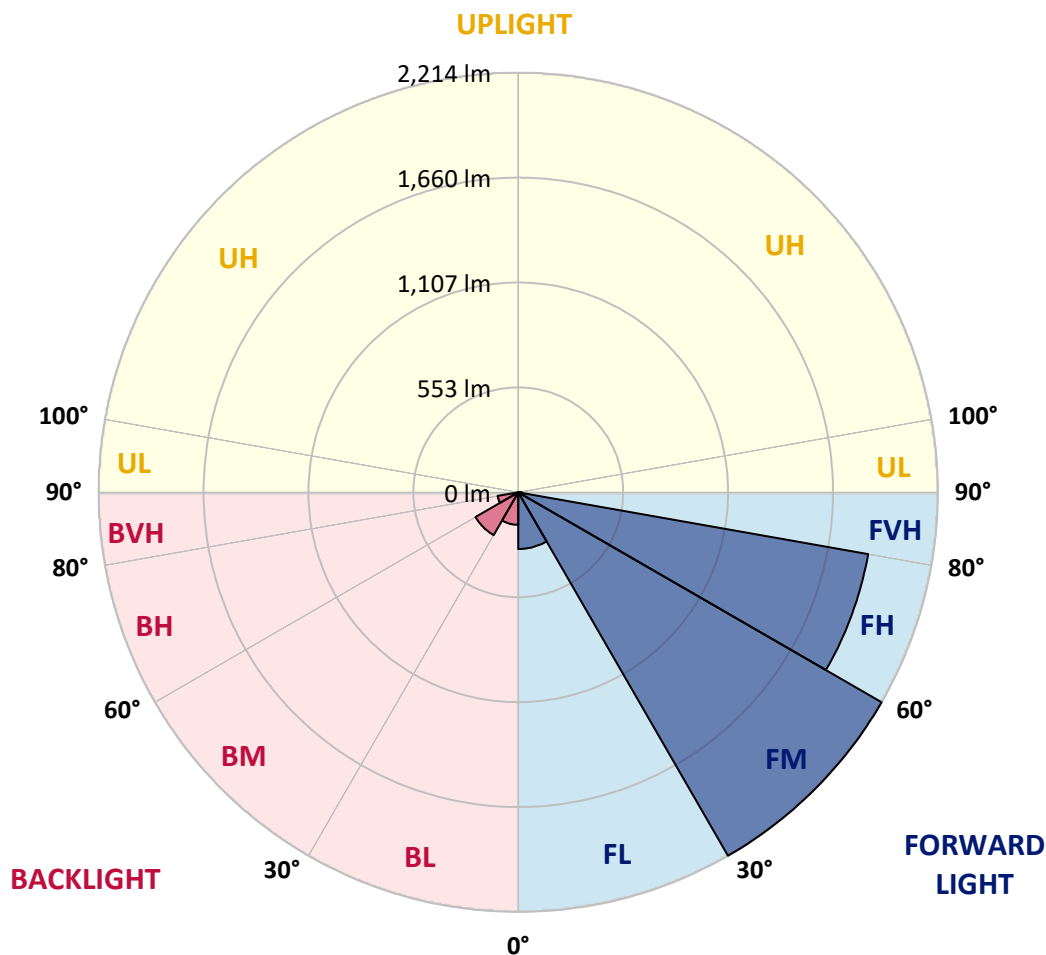
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	299.2	6.0			
FM	(30°-60°)	2213.6	44.7			
FH	(60°-80°)	1874.2	37.9			G2/5000
FVH	(80°-90°)	20.2	0.4			G1/100
BL	(0°-30°)	171.5	3.5	B1/500		
BM	(30°-60°)	260.3	5.3	B1/1000		
BH	(60°-80°)	110.5	2.2	B1/500		G1/500
BVH	(80°-90°)	0.4	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°	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2
2.5°	574.4	577.0	578.8	580.0	581.4	584.4	585.4	586.8	587.5	587.5	589.1
5°	551.7	554.5	558.5	561.7	568.3	576.7	582.8	585.1	589.4	593.1	595.2
7.5°	530.6	533.9	538.6	546.3	557.5	571.1	583.7	587.0	595.2	603.2	607.1
10°	517.0	519.6	525.7	536.7	551.4	570.4	588.2	592.2	606.2	619.6	627.0
12.5°	512.4	514.7	521.0	533.4	551.7	573.9	598.5	604.3	624.9	644.4	654.9
15°	519.1	519.6	526.4	538.1	556.1	582.6	615.6	622.6	648.6	673.9	687.0
17.5°	545.4	543.3	546.8	551.9	566.2	594.0	633.6	644.1	678.8	708.5	720.9
20°	610.9	610.9	602.9	588.9	589.1	611.8	657.9	669.9	712.2	746.6	757.9
22.5°	723.0	720.9	705.0	670.6	639.0	642.5	687.7	703.1	752.5	789.2	793.0
25°	857.8	855.3	830.7	782.2	727.5	692.1	727.9	745.7	800.5	833.0	825.3
27.5°	1000.6	998.5	974.2	914.0	836.1	771.2	775.9	792.8	849.4	881.5	856.9
30°	1138.9	1139.6	1115.5	1053.7	965.5	872.1	836.8	846.6	896.9	929.4	894.3
32.5°	1270.5	1271.4	1250.6	1181.5	1099.1	989.4	921.0	918.4	952.2	984.2	944.0
35°	1387.7	1390.1	1375.8	1322.2	1234.9	1120.0	1030.3	1024.2	1030.6	1066.8	1020.0
37.5°	1500.8	1502.2	1491.4	1446.3	1373.2	1263.5	1168.4	1159.8	1146.2	1174.0	1120.4
40°	1624.6	1621.1	1608.7	1567.7	1505.0	1421.9	1316.8	1301.8	1278.2	1303.0	1252.5
42.5°	1739.8	1735.8	1737.9	1691.5	1638.6	1584.8	1489.8	1464.0	1450.2	1478.8	1414.4
45°	1883.7	1881.6	1888.6	1848.4	1805.5	1766.4	1688.0	1659.9	1653.9	1687.3	1610.3
47.5°	2025.8	2030.9	2052.7	2035.6	2018.3	1983.9	1898.0	1885.3	1889.1	1929.6	1817.0
50°	2144.2	2150.3	2210.0	2229.6	2254.7	2234.6	2148.4	2140.7	2155.5	2192.0	2039.4
52.5°	2229.9	2242.3	2316.5	2407.1	2498.3	2511.9	2426.0	2419.0	2438.9	2444.5	2211.2
55°	2289.3	2300.3	2384.4	2550.1	2735.9	2794.4	2741.1	2713.9	2710.2	2654.7	2391.8
57.5°	2299.9	2298.7	2419.5	2642.5	2922.2	3073.2	3039.5	3012.8	2936.0	2849.0	2599.0
60°	2240.4	2247.2	2387.4	2674.6	3039.3	3284.1	3286.7	3252.0	3132.4	3037.9	2799.8
62.5°	2057.4	2085.0	2226.6	2590.6	3037.9	3369.0	3467.8	3441.4	3298.4	3192.6	3003.4
65°	1760.6	1770.4	1905.5	2302.7	2832.6	3333.5	3631.0	3621.1	3447.9	3342.8	3108.1
67.5°	1285.7	1264.4	1406.2	1813.3	2398.2	3126.1	3748.0	3760.4	3563.3	3373.7	2996.7
68°	1173.3	1179.7	1290.1	1692.2	2284.4	3052.8	3755.7	3774.7	3574.8	3353.6	2935.8
70°	699.4	711.5	810.1	1165.1	1737.9	2638.3	3672.4	3715.7	3506.4	3146.0	2539.3
72.5°	178.6	193.1	286.3	521.5	992.6	1858.9	3100.1	3173.4	3044.4	2552.2	1714.2
75°	73.5	77.2	102.3	171.8	369.8	837.5	2043.3	2200.2	2110.5	1527.9	774.7
77.5°	50.8	53.4	65.8	95.3	160.1	283.9	1001.8	1115.1	1004.6	521.5	169.0
80°	36.5	38.6	47.0	63.4	92.0	101.3	326.5	377.5	299.8	114.5	41.9
82.5°	21.8	23.4	35.1	45.2	55.9	48.5	81.2	92.2	86.8	56.9	18.7
85°	10.8	12.6	23.6	32.3	30.2	20.4	24.8	27.6	34.2	34.6	10.1
87.5°	0.7	1.4	13.8	19.4	8.4	4.7	7.3	8.9	12.2	17.1	4.2
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°	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2
2.5°	589.8	590.1	588.4	587.7	588.2	585.4	584.2	584.7	584.7	585.4	584.2
5°	595.7	595.7	592.9	589.1	587.0	581.6	578.1	577.2	576.5	576.0	575.1
7.5°	608.3	606.9	602.0	593.8	586.8	575.1	566.2	561.5	559.2	558.2	557.5
10°	628.7	626.1	617.9	602.7	586.6	565.7	546.3	532.5	521.0	516.3	513.5
12.5°	656.1	652.3	638.5	613.2	584.9	546.5	504.4	463.9	426.2	410.8	403.0
15°	687.7	682.3	660.5	622.1	575.3	503.2	411.7	340.8	288.6	268.9	260.5
17.5°	719.7	712.7	679.7	627.7	546.5	413.6	288.8	218.1	183.3	173.9	170.6
20°	752.0	741.7	696.3	623.5	481.5	298.2	190.5	159.4	149.3	146.5	145.6
22.5°	782.7	766.8	711.3	607.1	381.3	200.1	150.7	140.9	137.6	136.0	135.5
25°	809.4	787.1	724.4	556.6	269.9	151.2	135.8	132.5	128.3	125.2	125.5
27.5°	834.4	807.5	732.4	473.3	180.0	129.2	125.7	121.2	113.5	109.1	109.1
30°	864.6	834.7	738.2	364.2	132.5	114.2	111.4	104.6	94.1	88.2	88.2
32.5°	910.0	875.8	734.5	255.6	109.8	100.4	93.9	84.5	73.0	67.4	67.2
35°	979.5	939.5	707.8	167.6	96.9	87.3	76.8	65.3	55.2	50.6	50.3
37.5°	1073.2	1024.7	647.9	119.8	86.8	75.1	62.5	49.9	42.4	39.3	39.1
40°	1194.6	1123.7	562.2	97.1	77.5	63.4	48.2	38.6	33.5	31.1	31.4
42.5°	1340.5	1229.7	459.5	83.8	68.3	52.2	37.7	30.4	27.2	25.5	25.0
45°	1502.4	1334.4	351.8	74.7	59.2	42.1	29.5	24.1	21.5	20.6	20.6
47.5°	1680.5	1436.2	257.5	66.7	49.4	32.5	23.6	19.7	17.6	16.9	16.6
50°	1842.3	1506.9	185.6	58.3	40.5	25.7	19.2	16.4	15.0	14.0	14.0
52.5°	1977.1	1529.1	136.7	49.2	32.8	20.6	15.9	14.0	12.6	11.9	11.9
55°	2095.8	1520.0	101.6	40.5	26.4	16.9	13.6	11.9	10.8	10.1	10.1
57.5°	2209.5	1490.5	75.8	33.0	21.3	13.6	11.5	10.1	8.9	8.4	8.4
60°	2302.4	1441.3	56.4	26.7	17.1	11.0	9.6	8.2	7.3	6.6	6.6
62.5°	2377.8	1387.0	41.4	22.0	13.6	8.7	7.5	6.8	5.4	4.7	4.7
65°	2378.3	1296.9	31.1	18.3	10.5	6.8	5.6	5.4	3.5	2.8	2.6
67.5°	2206.2	1118.1	23.9	15.7	8.2	5.1	4.2	4.4	1.9	1.2	0.9
68°	2143.7	1072.7	22.5	15.4	7.7	4.9	4.0	4.4	1.6	0.9	0.7
70°	1807.4	853.4	18.0	15.0	6.8	3.7	3.3	4.4	1.4	0.7	0.5
72.5°	1156.0	495.3	13.3	11.9	5.1	2.8	2.1	4.0	1.4	0.5	0.2
75°	492.0	153.5	9.1	8.4	3.0	2.1	1.4	2.6	0.9	0.2	0.0
77.5°	103.7	34.6	5.4	5.1	2.1	1.4	0.9	0.7	0.2	0.0	0.0
80°	26.7	10.1	2.8	2.6	1.2	0.7	0.5	0.0	0.0	0.0	0.0
82.5°	8.4	4.0	1.6	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	2.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.7	0.2	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)