

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: P322666

Luminaire Tested: **GAN-SA2A-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4977 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

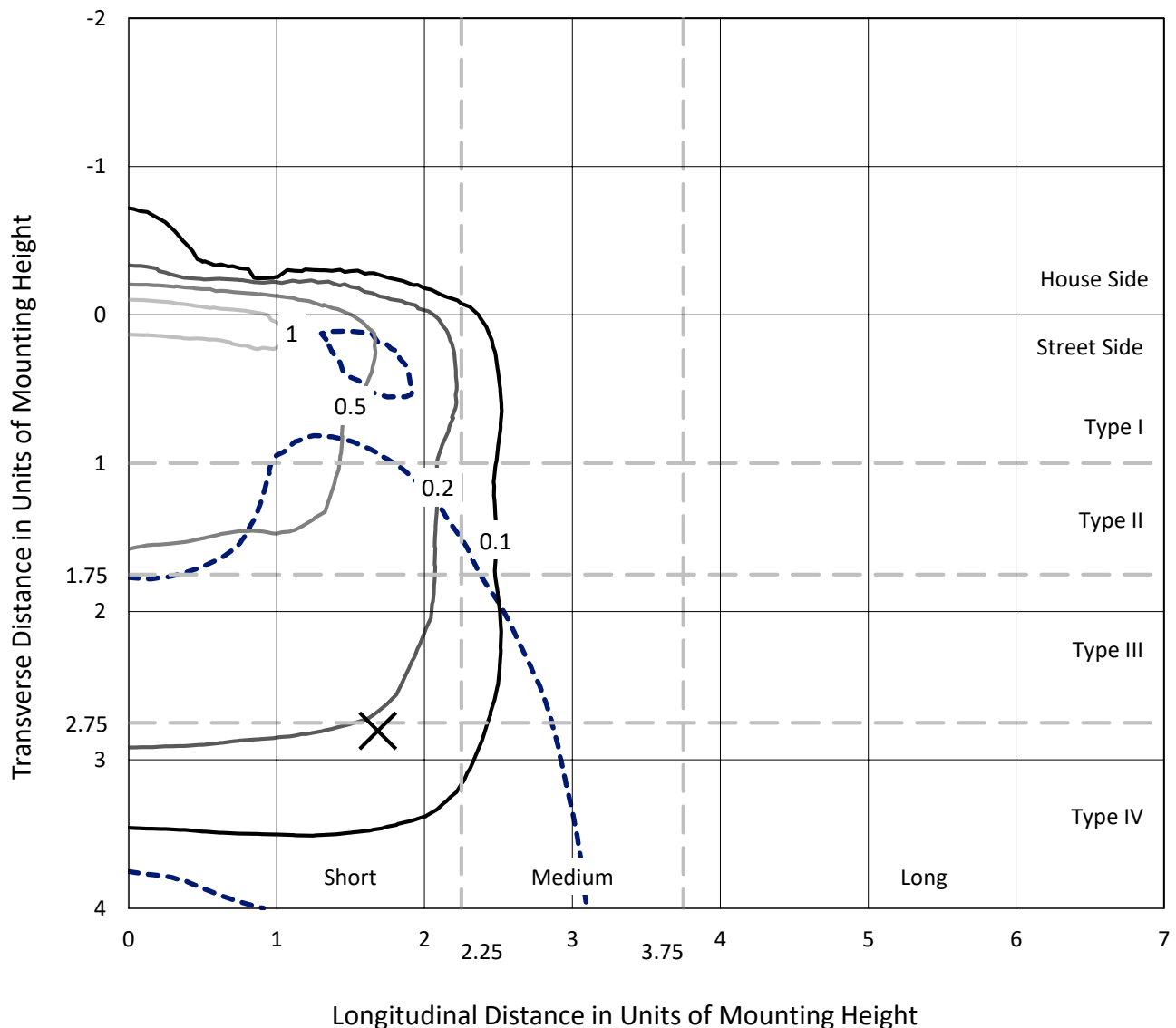
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

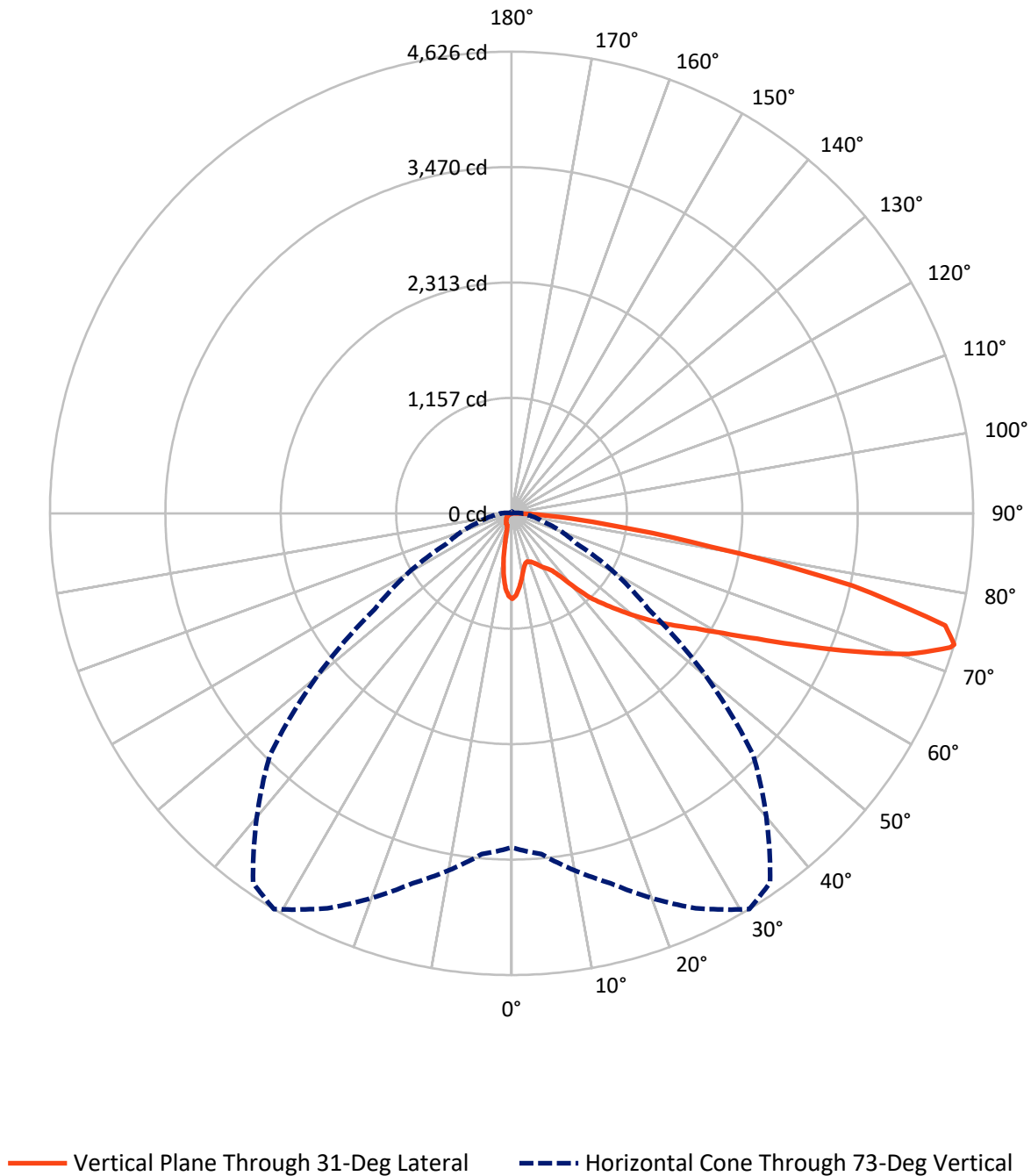
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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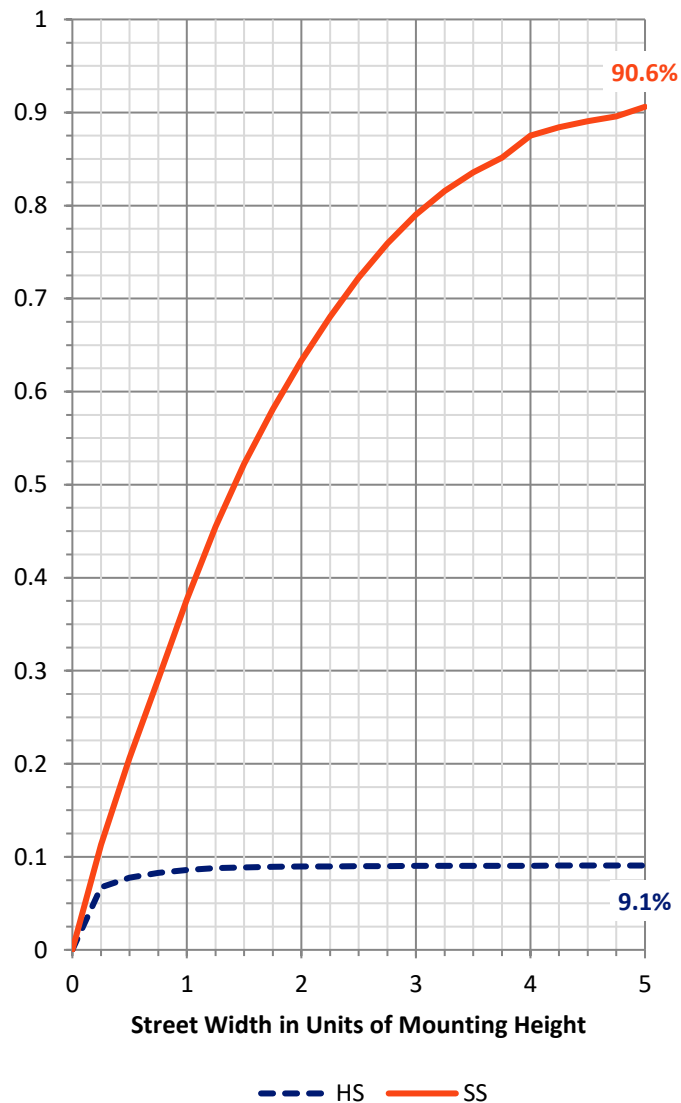
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	453.7	0.0	453.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	4523.3	0.0	4523.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	4977.0	0.0	4977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	1.4
10°-20°	154.2	3.1
20°-30°	231.0	4.6
30°-40°	367.5	7.4
40°-50°	656.2	13.2
50°-60°	1018.3	20.5
60°-70°	1353.7	27.2
70°-80°	1018.2	20.5
80°-90°	107.0	2.1
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°	4977.0	100.0
0°-180°	4977.0	100.0

Coefficient of Utilization



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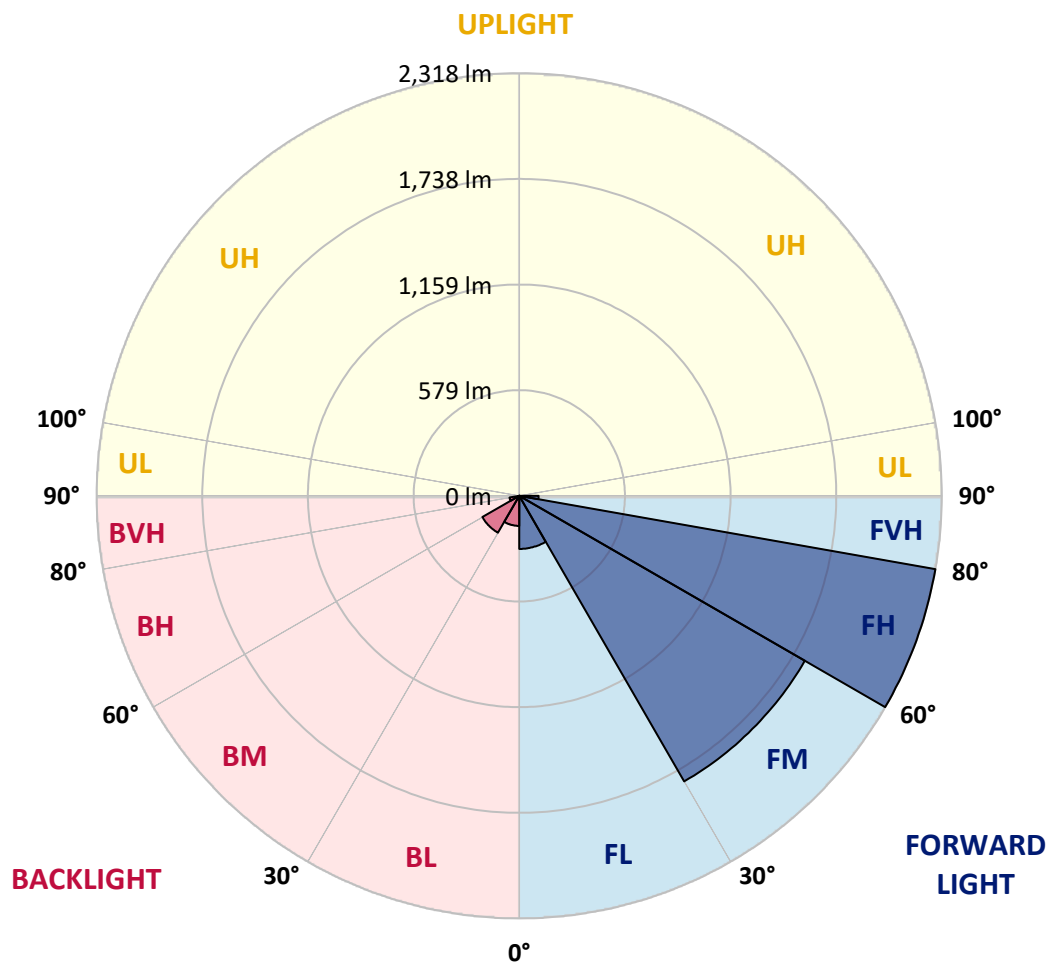
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	291.2	5.9			
FM	(30°-60°)	1808.5	36.3			
FH	(60°-80°)	2317.6	46.6			G2/5000
FVH	(80°-90°)	106.1	2.1			G2/225
BL	(0°-30°)	165.0	3.3	B1/500		
BM	(30°-60°)	233.5	4.7	B1/1000		
BH	(60°-80°)	54.3	1.1	B0/110		G0/110
BVH	(80°-90°)	0.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	856.3	856.3	856.3	856.3	856.3	856.3	856.3	856.3	856.3	856.3	856.3
2.5°	811.5	814.9	818.6	819.3	825.4	825.6	834.4	841.0	847.5	853.9	856.1
5°	728.2	733.8	740.4	747.0	759.9	765.0	786.4	808.3	829.3	849.2	859.0
7.5°	639.3	645.6	654.9	671.2	685.6	695.6	729.4	768.4	807.4	844.1	865.3
10°	558.2	564.0	573.8	591.1	613.2	626.9	672.4	726.5	783.7	839.5	874.8
12.5°	506.6	509.7	515.1	533.6	553.6	568.9	622.5	689.5	764.2	839.3	890.2
15°	497.1	498.0	493.7	501.9	517.5	532.4	586.7	659.5	749.4	843.2	910.1
17.5°	512.2	511.7	497.1	496.1	508.5	520.7	569.2	638.8	738.9	852.2	935.9
20°	535.1	533.4	508.0	503.4	516.6	528.0	567.9	631.0	735.0	867.3	967.4
22.5°	565.5	562.6	522.9	518.0	532.1	544.1	583.0	638.6	738.4	887.5	1003.9
25°	603.3	598.9	548.5	543.1	557.5	569.4	610.1	660.2	748.7	912.1	1050.2
27.5°	645.9	639.5	589.4	575.5	591.8	604.2	646.1	693.4	764.7	938.1	1106.9
30°	686.1	677.8	632.5	609.6	629.6	643.4	685.1	732.8	790.5	978.3	1184.6
32.5°	726.5	717.2	671.0	643.7	661.7	676.8	725.3	787.1	839.0	1039.7	1287.9
35°	819.5	809.8	753.0	708.0	707.7	716.3	781.5	861.4	903.1	1125.2	1411.1
37.5°	976.1	970.5	916.5	831.0	808.1	798.6	858.3	950.1	995.1	1242.8	1550.2
40°	1147.6	1142.7	1082.1	1004.6	969.8	946.4	968.3	1073.5	1125.2	1386.5	1692.1
42.5°	1341.2	1318.1	1209.9	1186.8	1155.6	1137.8	1118.1	1225.8	1284.9	1542.9	1832.9
45°	1517.0	1478.1	1337.8	1302.7	1295.7	1300.0	1311.0	1430.3	1464.7	1728.7	1973.2
47.5°	1621.8	1591.1	1483.4	1449.8	1447.9	1476.9	1559.7	1661.5	1643.7	1890.6	2096.7
50°	1721.4	1693.6	1604.2	1612.5	1621.5	1661.0	1841.9	1899.2	1807.1	2037.5	2209.9
52.5°	1802.0	1759.6	1712.8	1759.4	1803.7	1867.3	2133.2	2112.5	1923.0	2154.4	2306.9
55°	1848.5	1829.3	1851.9	1898.7	1982.0	2085.2	2408.2	2290.1	2007.8	2261.1	2371.4
57.5°	2019.0	1981.2	2026.3	2066.7	2175.3	2319.8	2643.7	2422.3	2068.9	2327.1	2386.3
60°	2225.3	2194.8	2221.4	2288.6	2435.2	2605.0	2863.8	2530.2	2100.8	2369.4	2347.8
62.5°	2553.6	2513.4	2496.8	2572.1	2766.4	2951.8	3030.9	2605.0	2093.8	2350.7	2215.8
65°	2993.4	2951.8	2877.7	2945.9	3193.1	3323.9	3217.7	2620.8	2045.0	2199.0	1882.1
67.5°	3444.0	3413.8	3350.4	3465.4	3688.5	3730.6	3415.2	2582.3	1888.2	1783.0	1329.8
70°	3741.6	3728.7	3769.8	4024.1	4223.1	4210.9	3596.4	2375.5	1471.7	1096.4	657.8
72.5°	3527.0	3588.9	3892.8	4353.8	4596.9	4497.5	3503.4	1824.1	841.2	421.8	190.2
73°	3349.2	3428.4	3837.5	4366.3	4626.4	4517.5	3425.2	1674.4	717.0	332.9	144.2
75°	2330.0	2427.2	3177.0	4066.5	4488.5	4304.2	2855.1	1024.8	332.2	147.6	58.2
77.5°	1131.3	1203.1	1749.4	2938.1	3490.7	3362.9	1777.4	381.9	150.0	92.3	26.8
80°	422.3	469.6	759.4	1495.4	2017.3	2070.1	781.8	144.4	99.9	74.3	13.6
82.5°	110.6	123.2	280.1	666.8	1033.8	1082.1	246.5	72.8	73.1	61.1	8.3
85°	35.3	40.4	87.4	299.3	487.1	427.7	64.3	35.3	53.1	45.5	4.6
87.5°	4.4	5.6	27.8	70.4	107.4	59.7	10.0	10.5	22.6	25.3	2.7
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°	856.3	856.3	856.3	856.3	856.3	856.3	856.3	856.3	856.3	856.3	856.3
2.5°	858.3	857.0	857.3	850.9	846.8	838.5	830.0	826.1	822.0	820.3	822.0
5°	862.6	860.4	854.1	834.6	813.9	787.1	762.1	743.1	719.2	712.6	719.4
7.5°	869.5	865.1	846.6	806.9	760.8	709.7	652.2	610.3	576.0	553.8	561.9
10°	879.4	871.2	833.9	766.4	684.1	593.5	511.9	448.4	403.3	384.8	384.1
12.5°	896.2	880.7	818.3	713.8	590.4	469.6	362.6	293.7	257.2	233.6	233.1
15°	914.8	891.9	798.6	650.8	481.2	336.3	233.6	181.2	157.6	150.0	149.0
17.5°	937.4	904.8	773.0	573.1	367.0	222.8	152.5	137.4	136.4	135.7	135.7
20°	965.9	920.1	740.1	484.2	260.3	148.8	129.6	130.5	131.0	130.1	130.3
22.5°	999.0	935.7	700.9	388.7	176.1	124.5	124.0	125.2	125.7	125.2	125.4
25°	1037.5	953.7	653.2	288.6	127.1	118.1	119.3	121.0	122.3	122.3	122.3
27.5°	1085.2	975.6	595.7	201.4	109.8	111.5	115.0	118.1	119.8	120.3	120.3
30°	1147.3	1002.9	526.8	138.1	99.9	102.8	109.1	115.2	118.4	118.8	119.1
32.5°	1225.8	1033.6	446.9	102.0	91.3	93.5	100.3	110.6	116.7	117.6	117.6
35°	1315.6	1069.2	360.9	88.9	85.2	86.0	91.3	103.0	113.7	116.4	116.7
37.5°	1414.0	1104.2	274.5	83.0	80.1	80.1	84.0	94.0	106.7	115.0	115.9
40°	1505.8	1125.4	192.4	78.4	75.5	75.5	78.9	86.2	98.1	110.6	113.2
42.5°	1590.6	1132.7	133.9	74.0	71.1	71.8	74.8	80.6	89.6	102.0	104.5
45°	1677.8	1131.5	97.7	68.9	66.7	68.9	71.1	75.5	82.1	89.1	89.6
47.5°	1743.5	1121.3	77.4	64.1	62.6	65.5	67.5	70.4	74.0	73.6	73.6
50°	1805.2	1096.4	62.3	57.5	58.5	61.9	62.8	63.8	64.1	59.4	58.9
52.5°	1851.9	1057.7	49.9	50.4	54.3	57.7	56.7	55.3	52.8	47.2	46.3
55°	1867.5	983.2	39.2	41.6	48.2	52.6	49.0	45.8	41.2	36.5	35.6
57.5°	1839.2	887.0	31.9	32.4	40.7	44.3	40.2	36.5	31.4	27.5	26.8
60°	1779.3	780.1	26.3	24.4	31.4	34.6	31.9	28.3	23.6	20.7	20.5
62.5°	1660.5	666.1	21.7	19.0	23.9	26.5	24.8	22.2	18.3	16.3	16.1
65°	1410.6	532.9	17.5	15.3	18.5	20.7	19.2	17.3	14.4	12.9	12.7
67.5°	984.7	360.2	14.4	12.7	14.6	16.3	15.1	14.1	11.4	11.2	11.4
70°	474.9	173.6	11.9	10.2	11.4	12.7	12.2	11.4	11.0	12.7	14.6
72.5°	136.1	58.2	9.5	8.5	9.3	10.0	10.5	10.2	11.9	15.3	17.8
73°	104.7	47.0	9.0	8.0	8.8	9.7	10.2	10.0	12.2	15.6	17.8
75°	44.8	22.6	6.8	6.6	7.3	8.5	9.0	9.0	12.2	15.8	17.0
77.5°	20.2	12.2	4.4	5.1	6.3	6.8	7.5	7.5	9.7	12.2	12.2
80°	11.4	6.6	3.4	3.9	4.6	4.6	4.6	4.1	4.4	4.9	5.4
82.5°	7.3	4.4	2.7	3.2	2.9	2.4	1.9	1.9	1.7	1.9	2.4
85°	4.1	2.4	2.4	1.9	1.2	1.0	1.2	1.0	0.2	0.0	0.2
87.5°	2.4	1.5	0.7	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)