

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: P322026

Luminaire Tested: **GAN-SA2A-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4986 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - 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

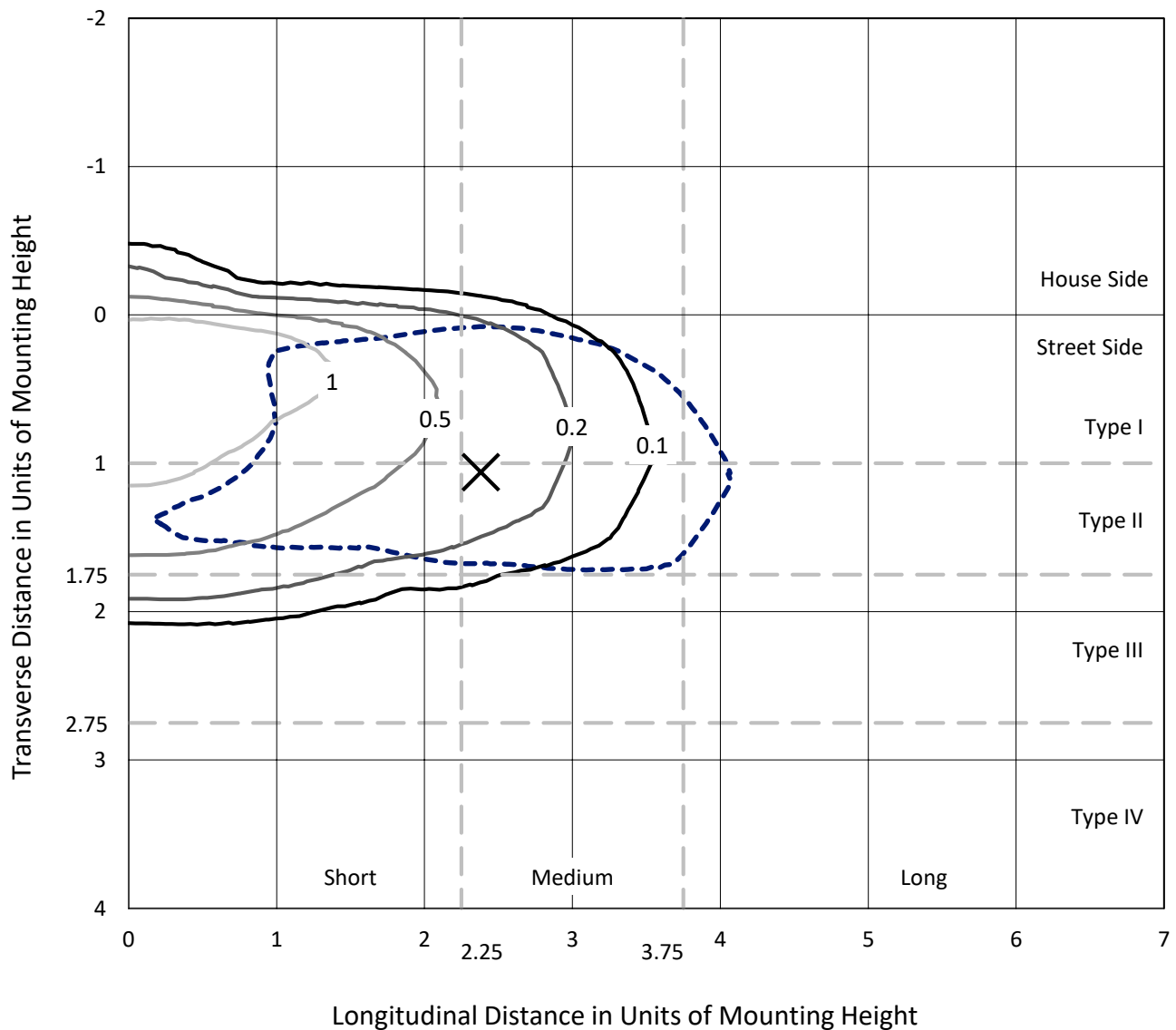


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Iso-Footcandle Lines of Horizontal Illumination

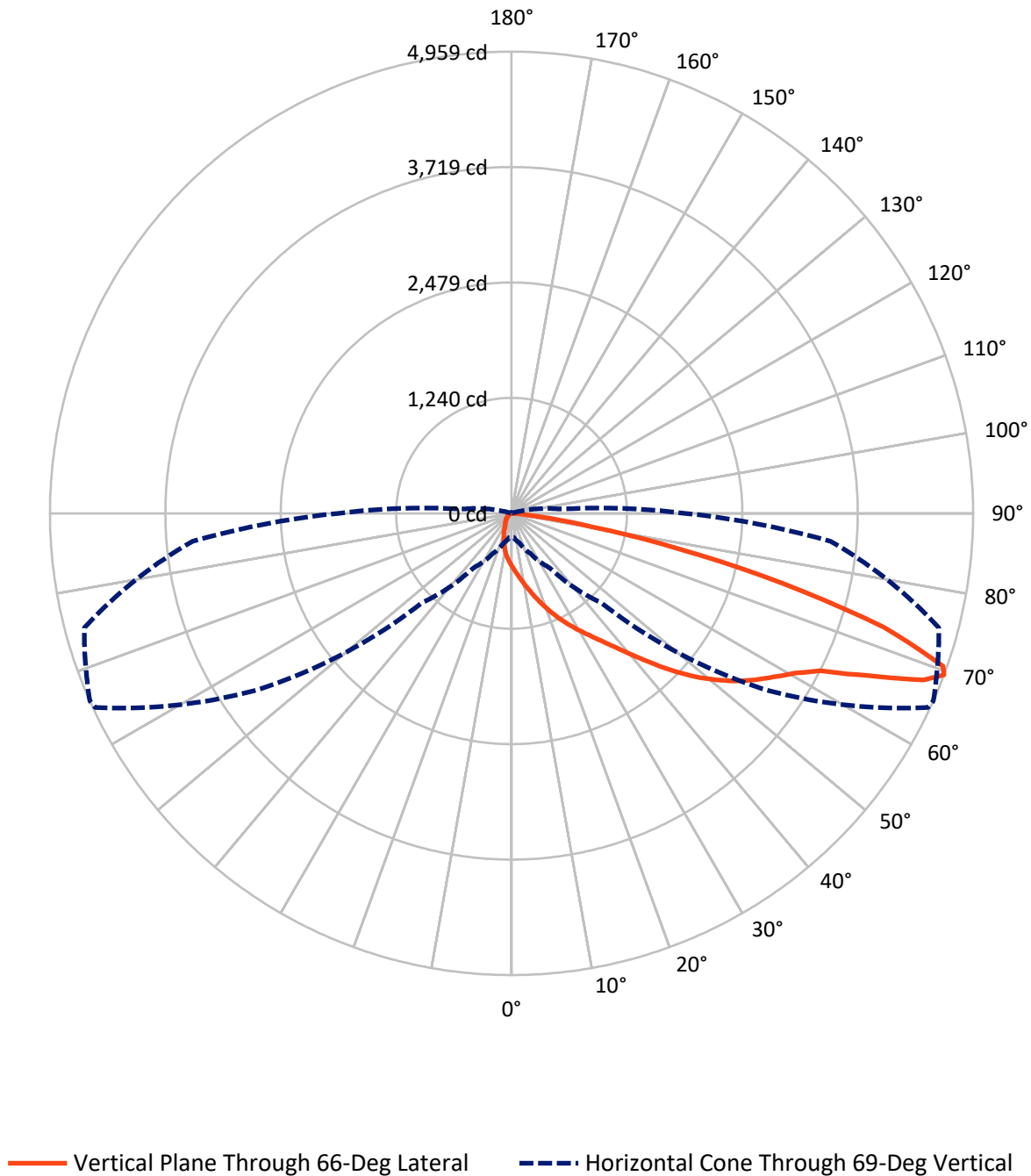
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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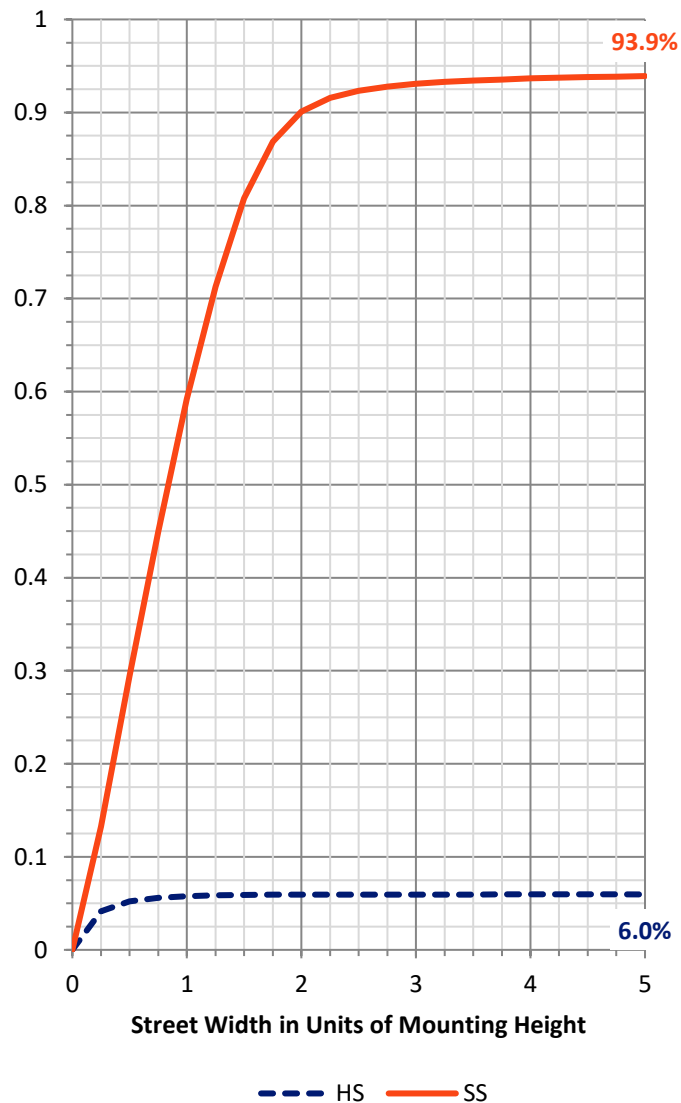
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	299.1	0.0	299.1
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	4686.9	0.0	4686.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	4986.0	0.0	4986.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	1.1
10°-20°	163.2	3.3
20°-30°	284.3	5.7
30°-40°	498.7	10.0
40°-50°	834.8	16.7
50°-60°	1227.1	24.6
60°-70°	1259.9	25.3
70°-80°	622.0	12.5
80°-90°	41.1	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°	4986.0	100.0
0°-180°	4986.0	100.0

Coefficient of Utilization



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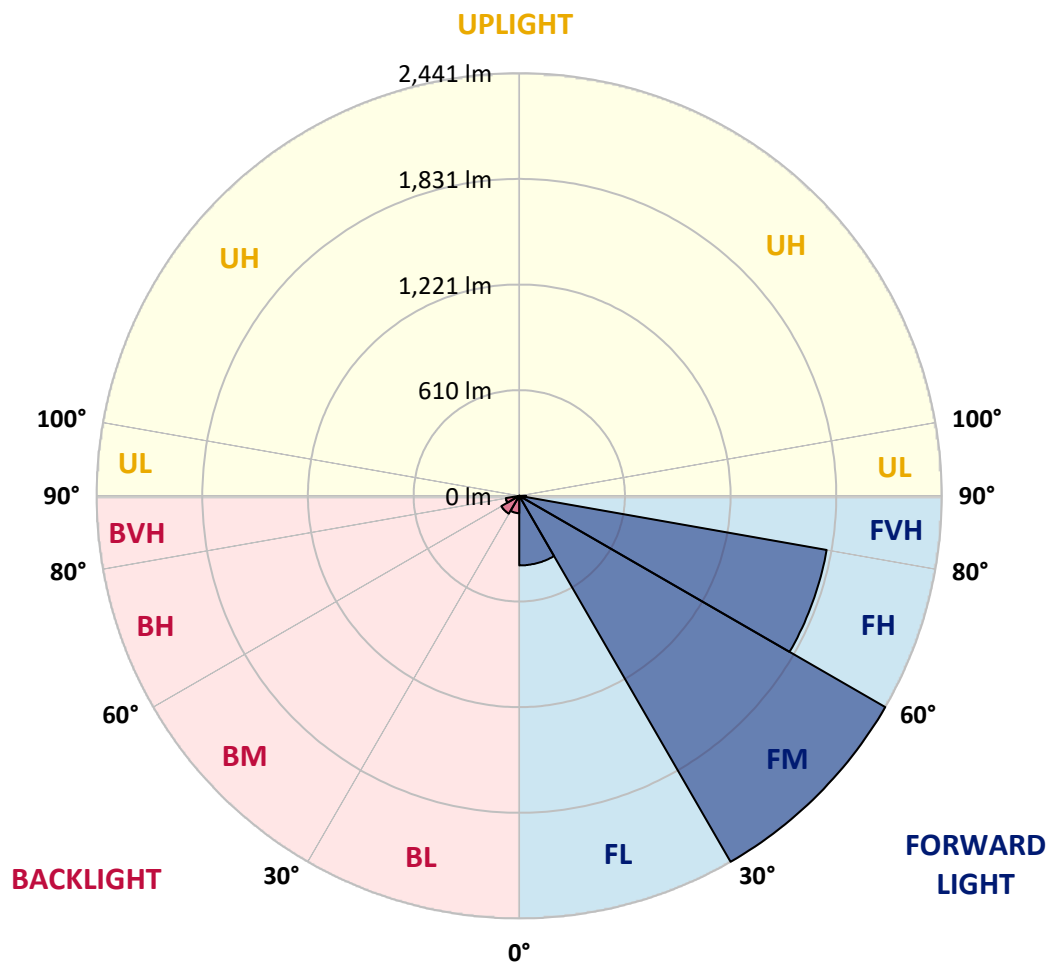
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	402.3	8.1			
FM	(30°-60°)	2441.4	49.0			
FH	(60°-80°)	1803.1	36.2			G2/5000
FVH	(80°-90°)	40.1	0.8			G1/100
BL	(0°-30°)	100.0	2.0	B0/110		
BM	(30°-60°)	119.2	2.4	B0/220		
BH	(60°-80°)	78.8	1.6	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4
2.5°	667.8	665.0	663.8	658.6	649.6	642.7	629.5	614.1	611.2	596.3	578.1
5°	754.5	752.1	750.5	743.1	733.9	716.6	692.5	663.8	658.4	629.9	593.5
7.5°	814.9	819.2	819.2	814.4	802.8	789.8	760.2	721.1	714.3	670.7	614.1
10°	850.2	855.4	859.4	863.4	861.8	856.6	828.6	784.6	776.3	718.5	638.0
12.5°	853.5	858.7	870.1	886.9	903.2	915.1	897.6	854.9	845.5	773.9	666.4
15°	835.0	840.5	858.0	890.7	930.2	964.8	970.5	932.8	923.1	840.0	701.9
17.5°	802.8	806.4	831.5	876.7	938.8	1002.2	1036.6	1016.4	1007.4	915.5	741.5
20°	778.9	781.5	803.5	852.1	933.5	1025.7	1099.1	1105.2	1095.8	996.5	784.4
22.5°	819.9	824.6	825.3	848.3	919.3	1037.3	1154.0	1192.6	1185.5	1082.5	826.5
25°	931.9	937.3	919.3	905.1	931.4	1042.5	1201.2	1282.1	1276.5	1175.1	868.9
27.5°	1079.9	1085.6	1062.4	1020.0	994.6	1062.1	1243.1	1373.1	1372.9	1273.1	914.6
30°	1225.3	1231.0	1207.3	1164.9	1106.7	1117.8	1279.3	1468.3	1469.7	1374.3	963.2
32.5°	1377.8	1384.9	1360.5	1306.1	1245.2	1213.9	1330.2	1564.0	1572.0	1491.5	1017.9
35°	1551.2	1552.1	1517.8	1460.7	1390.6	1342.5	1411.9	1671.2	1690.4	1636.7	1087.2
37.5°	1721.2	1728.1	1699.9	1609.9	1545.5	1491.0	1533.4	1805.3	1832.5	1814.0	1177.9
40°	1847.2	1861.6	1857.6	1760.5	1699.4	1660.6	1684.3	1964.7	1999.2	2020.6	1292.3
42.5°	1926.3	1937.2	1955.7	1897.2	1841.8	1848.2	1862.4	2150.3	2193.0	2256.0	1423.8
45°	2017.0	2022.2	2037.6	2011.8	1974.4	2038.8	2051.3	2359.4	2404.2	2509.1	1569.6
47.5°	2127.8	2140.2	2144.4	2120.7	2103.7	2207.4	2233.5	2549.6	2612.4	2780.3	1724.1
50°	2269.0	2272.3	2279.6	2264.2	2247.2	2352.3	2396.9	2749.3	2806.3	3052.4	1876.3
52.5°	2407.0	2418.9	2444.5	2434.8	2427.9	2475.7	2542.5	2929.2	2992.9	3279.3	2028.4
55°	2446.8	2457.0	2545.4	2605.7	2661.6	2627.8	2681.8	3090.5	3159.4	3482.0	2174.7
57.5°	2287.9	2308.5	2461.5	2618.8	2850.6	2864.1	2873.1	3256.1	3317.9	3637.3	2327.0
60°	1886.3	1890.3	2141.3	2411.1	2819.4	3070.4	3152.6	3433.9	3485.8	3782.0	2509.4
62.5°	1199.7	1240.7	1516.1	1896.9	2488.8	3040.5	3490.5	3702.9	3721.9	3955.6	2770.8
65°	571.4	598.0	796.4	1172.0	1802.7	2658.6	3723.8	4189.6	4198.1	4299.7	3120.1
67.5°	316.4	329.2	423.7	630.9	1053.9	1880.1	3629.5	4766.0	4774.1	4651.2	3426.6
69°	247.5	258.4	332.7	475.5	714.5	1351.3	3284.5	4934.9	4958.8	4751.8	3437.5
70°	210.1	220.7	286.6	401.6	574.5	1044.1	2923.6	4893.0	4918.3	4742.3	3356.2
72.5°	128.6	134.8	190.9	282.8	385.1	525.3	1802.9	4138.0	4180.8	4350.2	2884.5
75°	86.7	90.0	119.4	195.1	275.4	270.4	936.6	2916.7	3009.5	3383.9	2130.4
77.5°	62.0	65.1	80.0	126.2	193.0	178.6	424.1	1812.6	1832.5	2029.6	1161.8
80°	35.3	38.1	56.6	75.1	131.0	119.1	168.6	865.8	875.8	870.3	387.9
82.5°	18.5	20.8	31.0	49.5	84.1	77.9	70.1	289.9	291.3	242.3	85.0
85°	3.6	4.3	15.4	33.9	43.3	33.9	28.7	68.0	69.4	61.3	21.1
87.5°	0.0	0.2	6.2	7.6	8.5	8.8	9.2	13.3	14.2	19.2	5.7
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°	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4
2.5°	570.0	561.5	545.2	526.2	511.5	497.1	485.7	473.9	469.6	467.5	467.2
5°	575.7	557.7	523.1	487.6	458.5	431.0	411.4	392.6	383.9	379.9	378.2
7.5°	585.2	556.3	500.6	446.4	404.5	370.2	342.9	322.6	312.4	308.1	306.4
10°	596.3	554.4	474.4	402.8	349.3	313.8	286.8	266.7	255.5	250.8	248.4
12.5°	609.3	551.1	444.0	358.8	302.2	266.7	234.0	209.1	196.3	190.9	188.3
15°	625.4	547.8	412.3	317.3	260.7	217.4	181.6	164.8	162.2	161.3	161.5
17.5°	641.3	542.6	377.7	276.4	217.2	169.8	151.6	150.6	151.1	151.1	151.1
20°	655.5	530.7	340.1	241.3	175.7	143.3	139.5	137.8	136.6	135.7	134.5
22.5°	666.7	514.8	303.8	206.5	143.5	131.2	125.3	120.1	115.8	113.0	111.5
25°	674.2	493.8	270.7	173.1	129.1	119.4	108.7	99.9	93.3	89.3	87.6
27.5°	679.9	471.0	241.1	144.9	119.1	105.6	91.6	81.2	74.4	70.8	69.4
30°	683.9	445.2	215.0	127.4	108.0	91.2	76.3	66.1	61.1	59.2	58.3
32.5°	687.7	416.6	190.4	119.1	97.6	77.9	63.9	56.1	53.0	50.7	50.0
35°	697.2	390.0	167.0	110.4	86.9	66.5	54.9	49.3	46.2	44.8	44.3
37.5°	719.7	370.4	144.5	101.4	76.3	57.5	48.1	44.0	41.2	39.8	39.3
40°	755.9	360.4	125.5	91.6	65.8	50.7	43.6	39.8	36.7	34.6	34.1
42.5°	809.2	361.9	112.3	81.9	57.5	45.2	39.3	34.8	31.5	29.6	29.1
45°	873.9	372.3	103.0	72.5	50.7	41.0	34.6	29.8	26.8	25.1	24.6
47.5°	944.0	389.1	95.4	63.9	45.2	36.9	29.8	24.9	22.3	20.8	20.6
50°	1017.9	405.4	87.6	55.7	40.5	32.9	25.1	20.6	18.5	17.3	16.8
52.5°	1092.7	424.4	80.5	48.1	36.5	28.2	20.8	16.8	15.2	14.2	13.7
55°	1173.2	438.6	73.7	42.2	32.4	23.9	17.3	14.0	12.6	11.4	11.1
57.5°	1267.9	460.6	66.5	36.5	27.7	19.9	14.2	11.1	9.9	8.8	8.5
60°	1395.8	486.4	59.0	32.2	22.7	16.3	11.6	9.0	7.6	6.6	6.4
62.5°	1564.4	515.1	49.5	28.2	18.5	13.3	9.2	7.1	5.4	4.3	4.3
65°	1778.3	561.7	40.5	23.7	15.2	10.9	7.1	5.2	3.1	1.9	1.9
67.5°	1903.1	569.8	32.7	19.4	12.3	9.2	5.9	3.6	0.9	0.2	0.0
69°	1863.1	523.1	27.7	16.6	10.7	8.8	5.4	2.6	0.5	0.0	0.0
70°	1787.8	478.4	24.4	14.7	9.7	8.3	5.2	1.9	0.5	0.0	0.0
72.5°	1477.3	340.5	18.5	10.9	7.1	7.3	4.7	1.2	0.5	0.0	0.0
75°	1076.1	207.0	13.3	7.6	4.5	5.4	3.3	0.5	0.2	0.0	0.0
77.5°	598.7	97.6	8.3	4.3	2.8	3.3	1.7	0.0	0.0	0.0	0.0
80°	194.4	26.5	3.8	2.4	1.7	1.9	0.7	0.0	0.0	0.0	0.0
82.5°	36.0	7.6	2.1	1.2	0.5	0.5	0.0	0.0	0.0	0.0	0.0
85°	7.8	3.1	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.9	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)