

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: P321426

Luminaire Tested: **GAN-SA2A-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6116 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

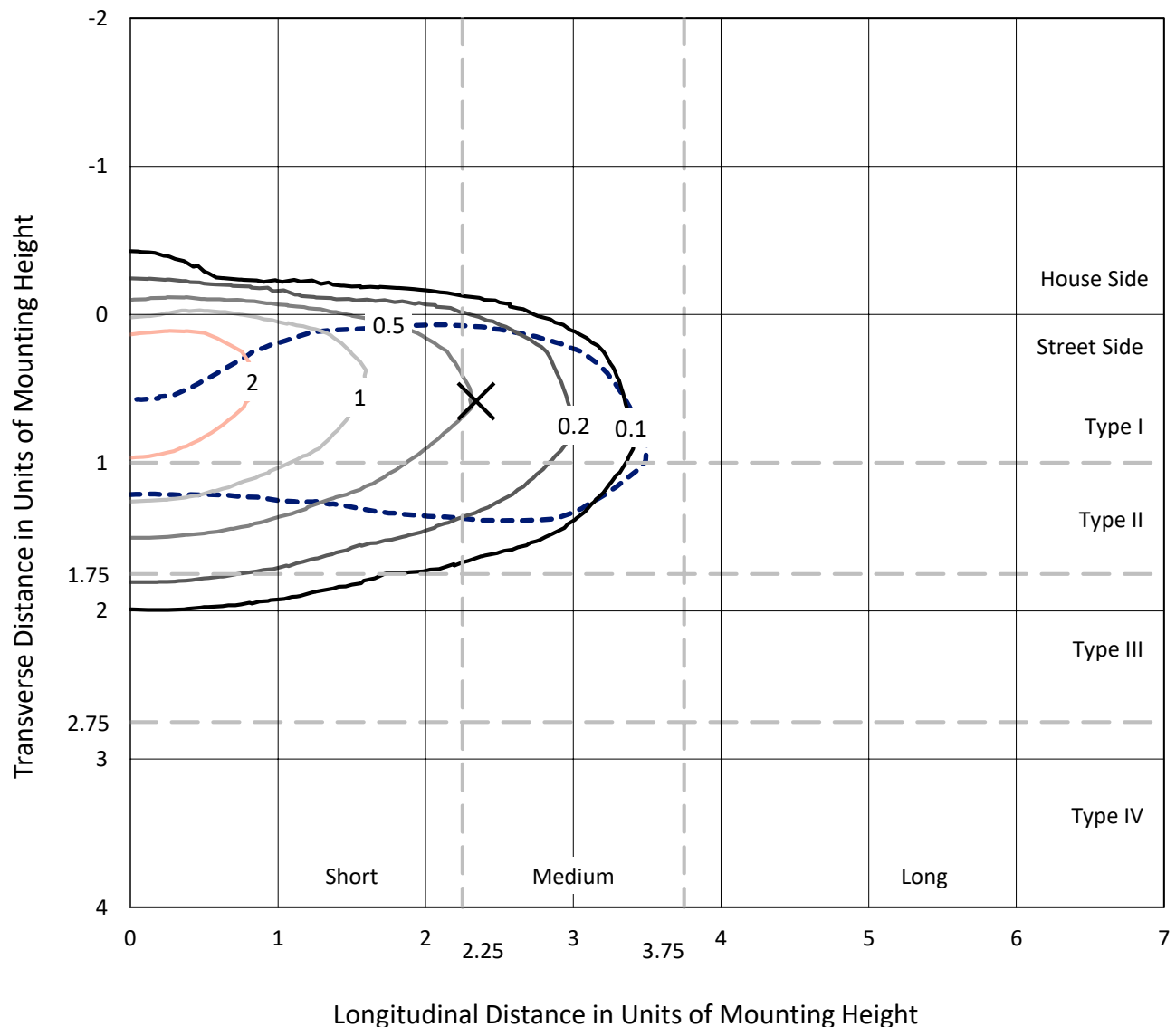
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

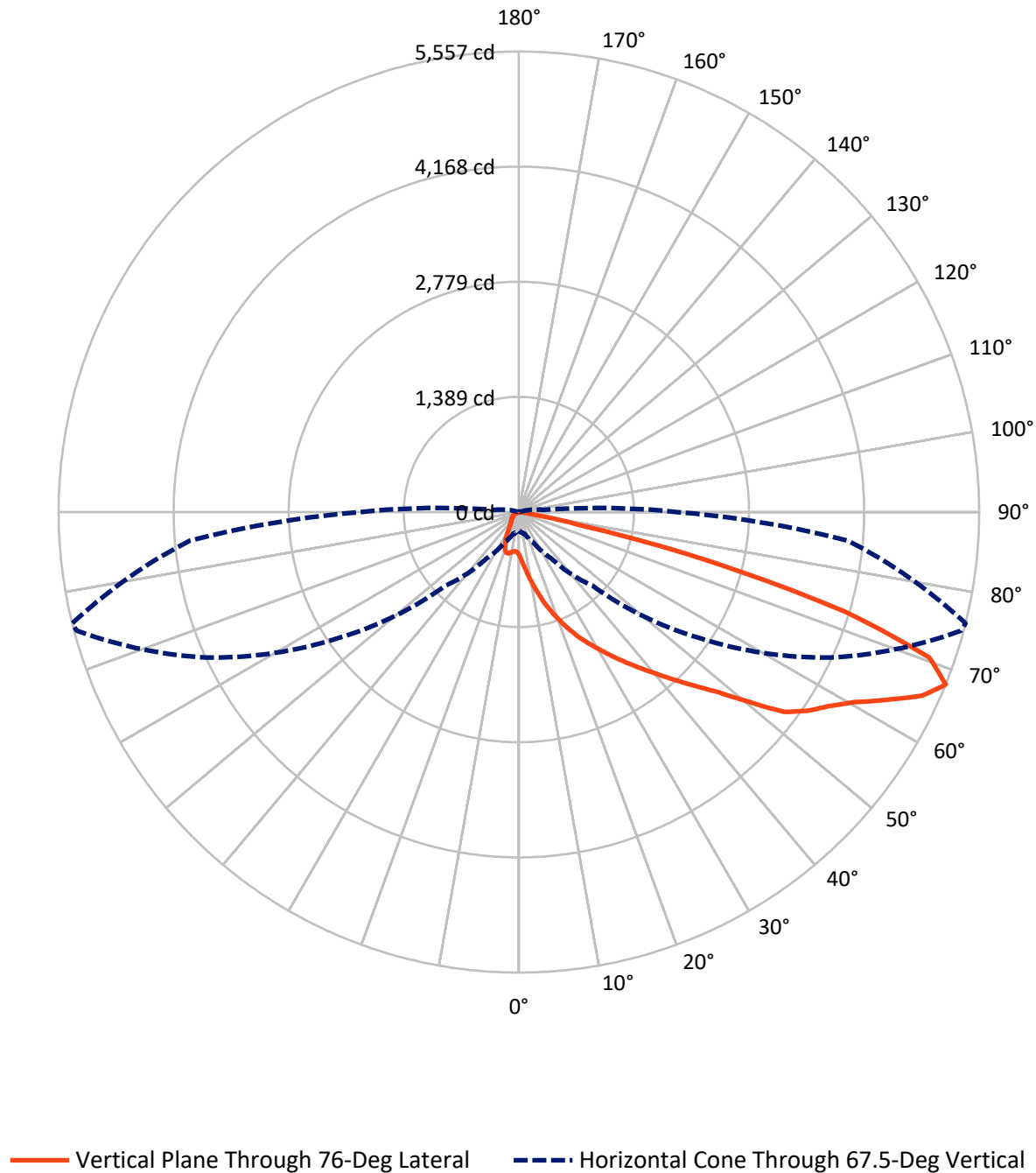
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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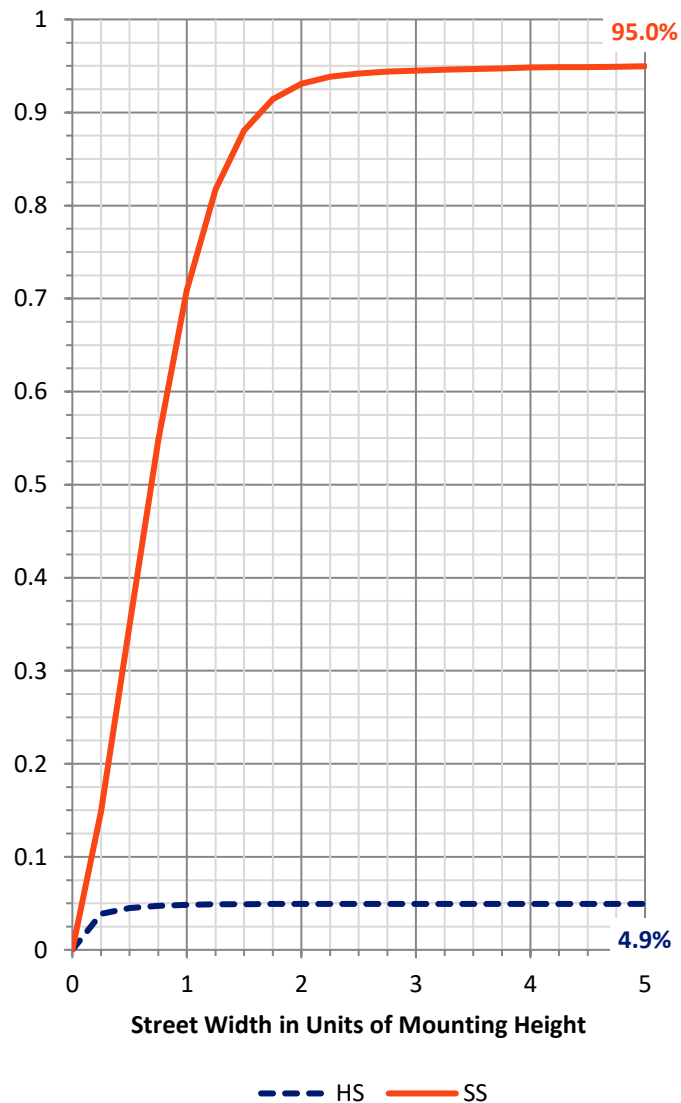
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	303.7	0.0	303.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5812.3	0.0	5812.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	6116.0	0.0	6116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.1
10°-20°	255.7	4.2
20°-30°	520.3	8.5
30°-40°	903.2	14.8
40°-50°	1276.0	20.9
50°-60°	1447.1	23.7
60°-70°	1200.2	19.6
70°-80°	434.8	7.1
80°-90°	14.1	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°	6116.0	100.0
0°-180°	6116.0	100.0

Coefficient of Utilization



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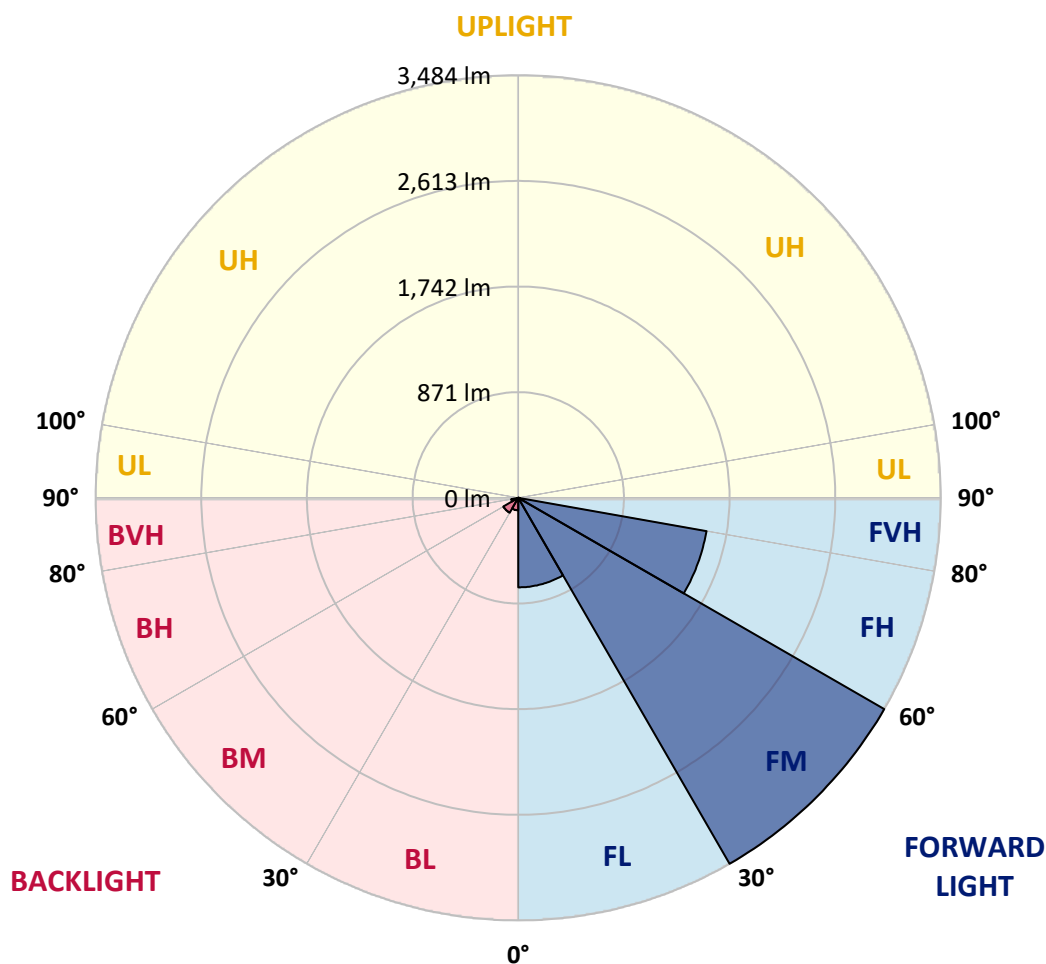
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	738.2	12.1			
FM	(30°-60°)	3484.2	57.0			
FH	(60°-80°)	1576.3	25.8			G1/1800
FVH	(80°-90°)	13.7	0.2			G1/100
BL	(0°-30°)	102.4	1.7	B0/110		
BM	(30°-60°)	142.1	2.3	B0/220		
BH	(60°-80°)	58.7	1.0	B0/110		G0/110
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: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	518.8	518.8	518.8	518.8	518.8	518.8	518.8	518.8	518.8	518.8	518.8
2.5°	774.5	757.1	761.1	749.8	729.4	687.6	652.0	618.2	578.8	577.5	545.1
5°	1044.3	1029.6	1027.7	1004.9	968.0	896.9	827.8	749.0	661.1	654.7	585.8
7.5°	1289.3	1277.5	1273.2	1246.1	1177.2	1108.1	1018.1	902.3	764.8	753.0	640.7
10°	1477.4	1471.8	1472.8	1453.5	1394.6	1330.3	1212.1	1064.4	882.5	864.2	706.7
12.5°	1620.0	1621.3	1630.9	1619.1	1586.2	1538.5	1412.3	1237.3	1012.7	987.8	782.0
15°	1724.7	1731.4	1749.1	1763.9	1761.4	1720.2	1604.4	1412.8	1151.0	1123.4	865.9
17.5°	1792.5	1800.0	1825.8	1858.5	1888.5	1878.8	1789.9	1582.2	1290.9	1259.0	955.6
20°	1852.0	1860.9	1888.5	1931.6	1987.6	1999.7	1941.3	1746.4	1430.5	1391.6	1048.3
22.5°	1980.9	1980.7	1997.5	2022.7	2076.1	2107.1	2070.2	1898.9	1568.5	1528.0	1142.9
25°	2214.1	2205.2	2199.3	2179.5	2191.3	2210.6	2190.0	2041.5	1707.3	1666.3	1238.9
27.5°	2491.2	2496.5	2448.8	2395.5	2354.2	2334.4	2300.6	2173.6	1840.8	1795.8	1332.7
30°	2783.5	2785.1	2728.9	2660.8	2570.0	2494.6	2436.2	2299.8	1978.0	1928.9	1423.8
32.5°	3047.2	3036.8	2981.0	2888.3	2773.6	2688.9	2567.5	2440.8	2123.2	2075.8	1525.1
35°	3256.3	3243.9	3176.1	3091.7	2972.7	2887.5	2741.5	2581.5	2276.0	2229.6	1626.7
37.5°	3409.0	3394.5	3324.9	3238.0	3135.4	3085.8	2943.3	2734.5	2442.7	2392.8	1733.6
40°	3462.1	3449.5	3405.8	3342.3	3259.7	3248.5	3157.4	2910.6	2624.1	2571.0	1854.7
42.5°	3430.4	3418.1	3402.6	3381.1	3346.8	3357.6	3359.4	3111.3	2825.6	2773.3	1988.4
45°	3305.0	3294.0	3310.1	3341.5	3384.1	3437.1	3543.8	3327.0	3050.7	2995.0	2143.1
47.5°	3120.4	3112.3	3156.8	3235.1	3359.7	3506.0	3712.4	3553.7	3303.4	3251.7	2336.0
50°	2857.8	2856.4	2945.4	3088.2	3279.8	3539.2	3886.5	3811.5	3654.5	3600.1	2604.3
52.5°	2448.8	2451.5	2626.5	2855.1	3139.7	3516.7	3998.6	4142.7	4062.9	4006.3	2836.6
55°	2059.4	2075.5	2199.6	2529.2	2924.8	3433.1	4037.2	4297.4	4288.3	4234.7	2965.8
57.5°	1678.1	1707.3	1826.8	2134.7	2611.0	3240.4	4016.0	4364.4	4456.0	4415.0	3136.2
60°	1264.9	1278.3	1416.0	1703.8	2208.2	2888.9	3862.4	4400.8	4685.4	4657.0	3383.5
62.5°	804.8	838.2	960.4	1238.1	1719.4	2400.6	3603.6	4400.3	4972.4	4988.0	3702.7
65°	423.9	463.1	527.9	767.2	1181.5	1855.2	3214.2	4359.0	5324.5	5346.2	3952.2
67.5°	228.6	239.8	274.1	398.2	685.2	1256.8	2642.0	4155.3	5528.5	5557.2	3987.0
70°	167.2	173.4	186.2	220.3	344.9	730.0	1927.9	3693.6	5265.6	5254.9	3542.5
72.5°	128.4	138.0	147.7	161.3	198.3	389.6	1200.3	2892.3	4201.4	4130.7	2647.9
75°	101.3	102.9	116.6	128.9	148.7	221.9	533.0	1684.5	2564.3	2396.8	1373.1
77.5°	80.9	82.0	90.0	100.8	119.5	145.8	165.1	662.7	818.7	730.5	298.0
80°	48.0	50.6	67.0	77.7	99.2	91.9	60.3	143.9	127.8	115.8	50.1
82.5°	26.8	28.9	37.8	61.4	69.1	43.9	30.0	38.9	30.0	29.2	14.2
85°	0.0	1.3	24.4	38.1	28.1	9.6	12.6	12.9	8.8	8.3	5.6
87.5°	0.0	0.0	7.5	7.2	1.1	1.6	2.9	4.3	3.5	3.5	2.9
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°	518.8	518.8	518.8	518.8	518.8	518.8	518.8	518.8	518.8	518.8	518.8
2.5°	529.0	514.5	487.2	460.4	437.9	419.4	402.8	396.1	390.7	389.9	385.6
5°	552.6	523.4	471.1	428.2	399.6	379.2	361.8	351.1	342.7	339.5	336.6
7.5°	588.2	544.0	469.0	419.7	385.4	351.1	318.9	284.1	262.4	254.0	249.2
10°	631.6	571.3	477.0	417.2	357.2	284.9	231.5	187.3	169.4	163.5	161.9
12.5°	682.3	605.4	490.9	402.2	297.2	202.3	159.7	144.7	140.7	138.8	138.8
15°	740.4	642.6	500.9	358.8	219.7	153.0	138.3	131.3	127.0	124.6	124.9
17.5°	799.9	679.1	496.0	295.9	162.1	136.1	125.1	117.6	111.7	109.3	108.8
20°	860.0	712.8	469.2	220.3	137.2	123.5	111.2	102.9	97.0	94.6	94.1
22.5°	922.1	741.5	422.1	161.6	123.3	109.6	97.5	89.2	83.6	81.5	80.4
25°	982.7	764.8	356.1	130.8	110.1	96.5	85.0	77.2	72.1	69.9	69.7
27.5°	1039.2	779.6	279.8	115.5	98.6	84.7	74.2	67.3	63.0	61.4	61.1
30°	1090.2	780.9	206.9	104.2	88.4	74.5	64.9	58.7	54.9	53.3	52.8
32.5°	1141.6	769.6	150.6	94.1	79.1	65.7	56.3	51.5	48.8	47.4	47.4
35°	1190.1	743.7	117.4	85.2	69.9	57.1	49.6	46.1	44.5	43.1	43.1
37.5°	1237.5	706.4	99.7	77.4	61.4	49.8	43.7	41.5	40.2	38.9	38.9
40°	1285.8	659.5	90.6	70.2	54.4	44.2	38.9	37.0	35.6	34.6	34.3
42.5°	1345.0	605.4	84.7	63.5	48.2	39.1	34.3	32.2	31.1	30.0	29.5
45°	1413.6	558.7	79.9	56.8	43.1	34.8	29.7	27.6	26.0	24.7	24.4
47.5°	1512.5	525.0	73.4	49.6	38.3	30.3	25.7	23.3	20.9	19.6	19.3
50°	1638.7	497.1	65.1	43.1	33.5	25.7	21.4	18.5	16.3	15.0	15.0
52.5°	1701.4	460.7	57.6	37.5	28.1	21.7	17.4	13.9	12.9	11.5	11.5
55°	1726.6	432.8	50.1	31.9	23.3	18.0	13.7	10.7	9.9	9.1	8.8
57.5°	1797.4	424.8	43.7	27.1	19.3	14.2	10.5	8.0	7.5	6.4	6.4
60°	1911.3	428.8	37.8	23.0	15.5	11.0	7.8	6.2	5.6	4.6	4.6
62.5°	2034.3	423.7	31.9	19.8	12.1	8.0	5.4	4.6	4.6	2.7	2.4
65°	2057.8	377.3	27.3	16.3	9.4	5.9	3.5	2.9	4.0	0.5	0.0
67.5°	1909.9	292.6	23.6	12.6	7.0	4.6	2.7	1.3	3.5	0.0	0.0
70°	1527.2	186.0	19.0	9.1	5.4	3.8	2.1	0.5	2.7	0.0	0.0
72.5°	1080.0	108.0	15.0	6.4	4.6	2.9	1.6	0.0	1.6	0.0	0.0
75°	546.1	57.6	9.4	4.8	3.5	2.1	1.1	0.0	0.3	0.0	0.0
77.5°	118.2	26.8	5.9	3.5	2.4	1.3	0.5	0.0	0.0	0.0	0.0
80°	25.7	11.8	3.8	2.1	1.3	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	9.4	6.2	1.9	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	3.2	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	1.1	0.3	0.3	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)