

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: P317586

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7894 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

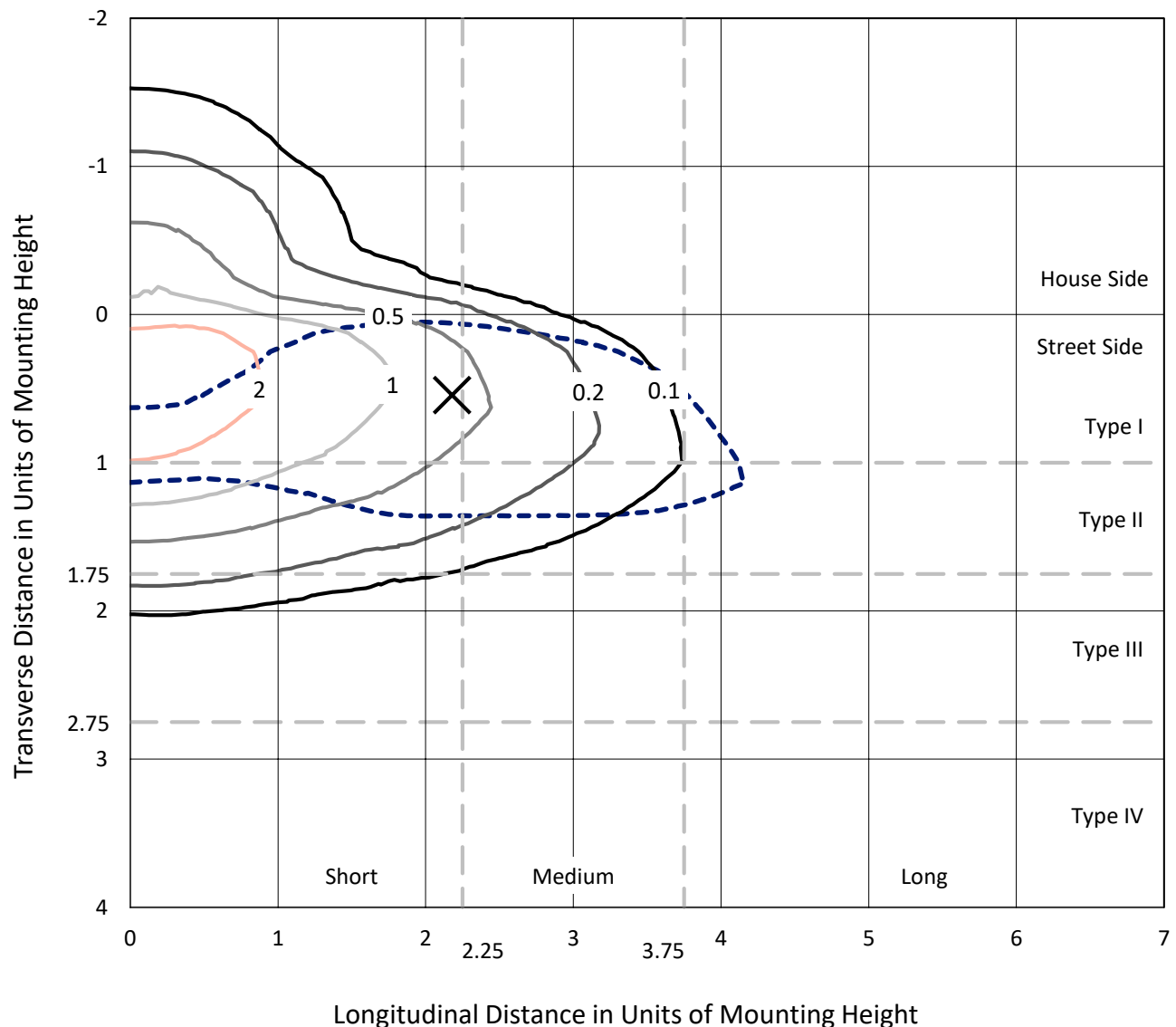
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

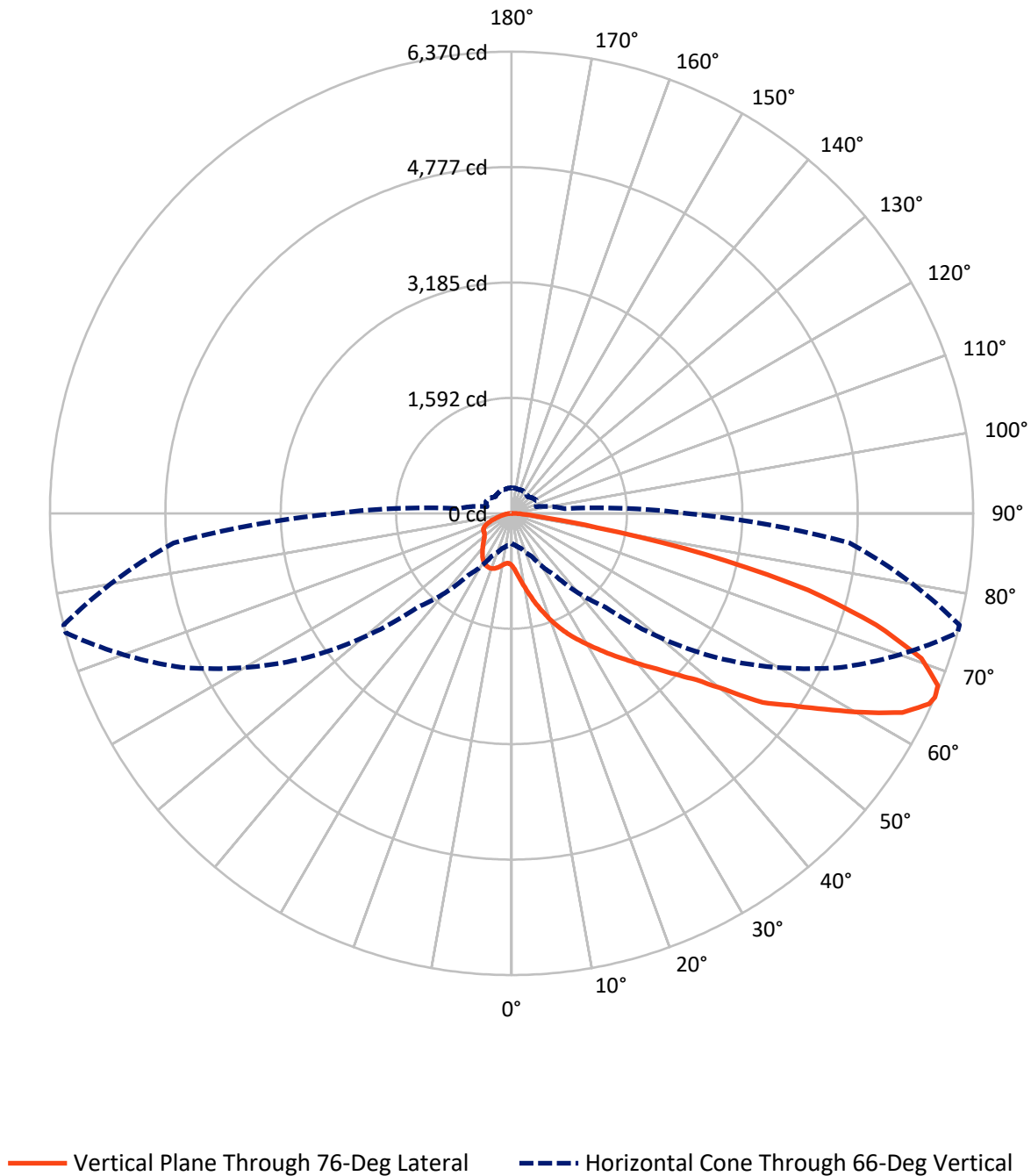
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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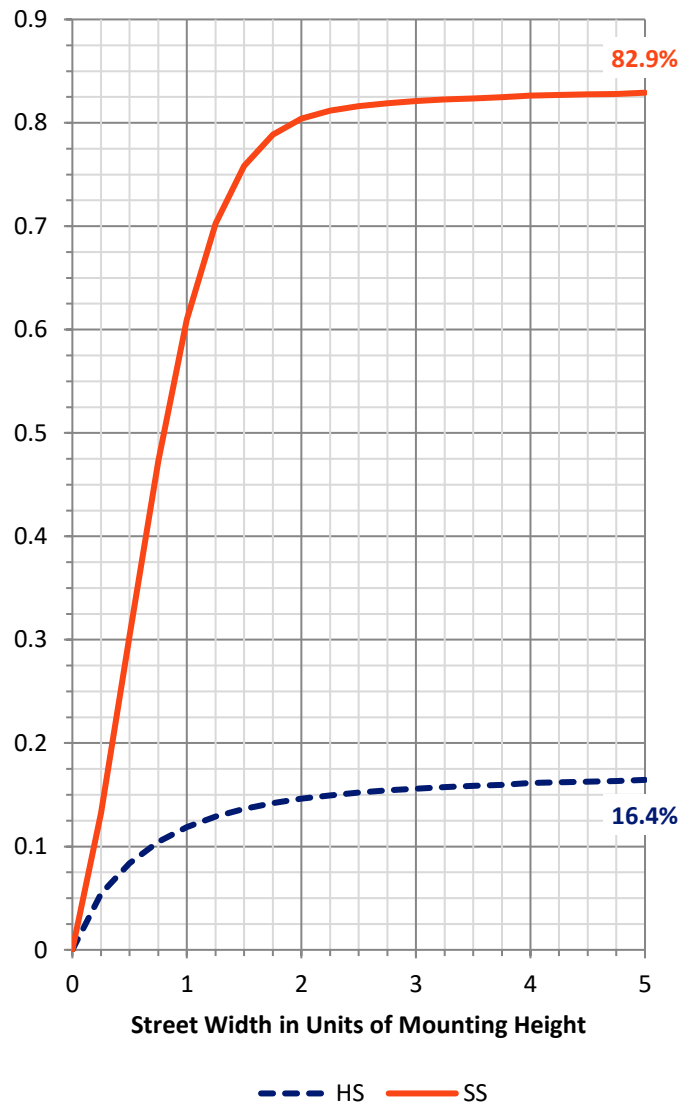
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1328.3	0.0	1328.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	6565.7	0.0	6565.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	7894.0	0.0	7894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.1
10°-20°	344.3	4.4
20°-30°	669.0	8.5
30°-40°	1091.9	13.8
40°-50°	1491.8	18.9
50°-60°	1737.7	22.0
60°-70°	1557.8	19.7
70°-80°	787.3	10.0
80°-90°	127.1	1.6
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°	7894.0	100.0
0°-180°	7894.0	100.0

Coefficient of Utilization



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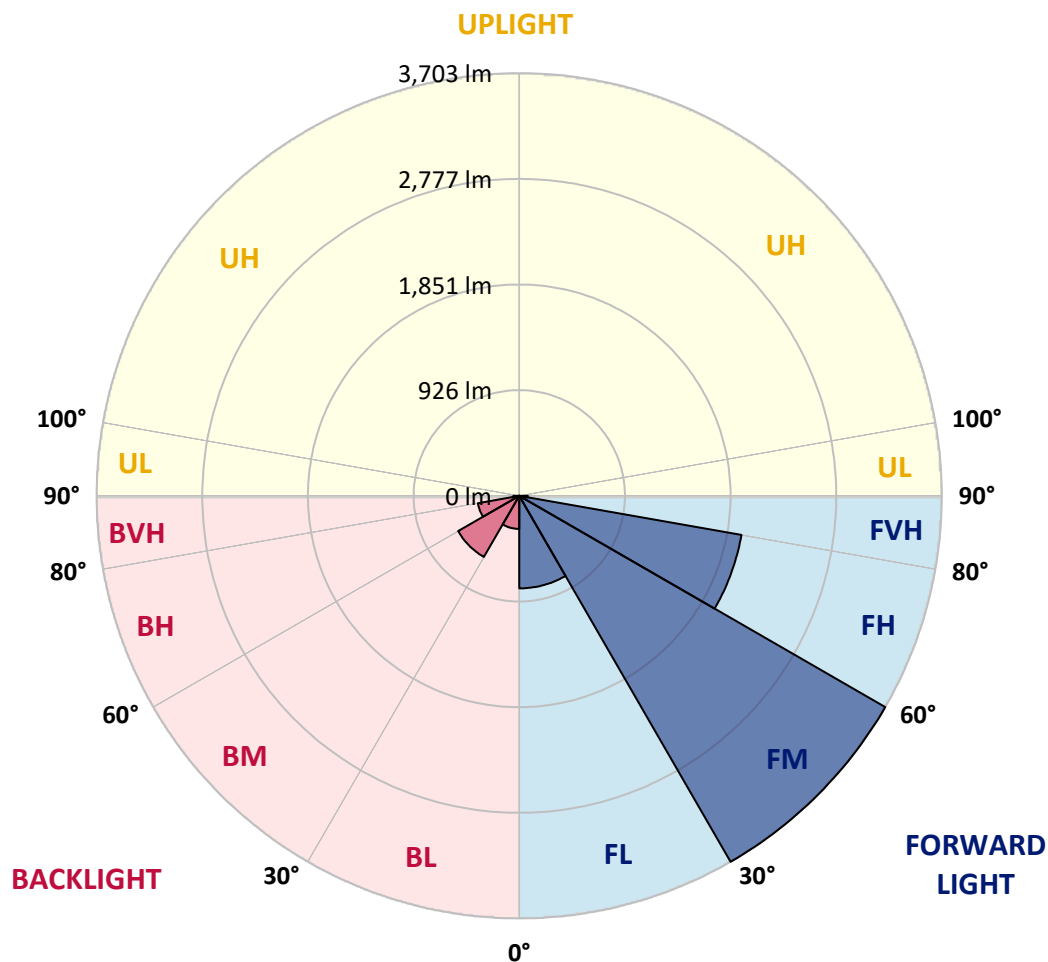
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	810.7	10.3			
FM	(30°-60°)	3702.8	46.9			
FH	(60°-80°)	1977.1	25.0			G2/5000
FVH	(80°-90°)	75.1	1.0			G1/100
BL	(0°-30°)	289.7	3.7	B1/500		
BM	(30°-60°)	618.5	7.8	B1/1000		
BH	(60°-80°)	368.0	4.7	B1/500		G1/500
BVH	(80°-90°)	52.1	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9
2.5°	957.0	942.5	941.2	920.0	915.2	874.7	845.0	813.9	778.5	771.6	743.7
5°	1229.3	1227.9	1209.5	1174.9	1147.8	1078.7	1010.3	938.0	858.6	845.8	783.1
7.5°	1474.2	1472.1	1457.9	1420.6	1381.5	1296.5	1199.0	1088.1	959.4	940.4	836.4
10°	1660.2	1659.4	1654.6	1627.3	1594.0	1512.6	1404.8	1253.4	1076.5	1050.5	903.1
12.5°	1803.9	1805.5	1808.7	1799.0	1783.2	1713.8	1603.4	1428.7	1201.4	1175.7	977.4
15°	1901.1	1906.0	1922.6	1936.2	1944.6	1901.9	1795.0	1608.0	1341.3	1310.5	1059.6
17.5°	1950.2	1955.5	1984.2	2025.5	2063.5	2059.3	1974.3	1778.9	1475.6	1445.8	1148.1
20°	1992.5	1996.5	2028.7	2078.3	2145.5	2175.3	2127.6	1943.5	1622.7	1587.3	1241.9
22.5°	2115.3	2120.4	2130.0	2158.1	2217.6	2272.3	2249.3	2099.2	1757.5	1724.5	1330.9
25°	2352.2	2358.3	2337.4	2313.6	2324.8	2362.9	2367.2	2241.2	1894.2	1856.9	1426.5
27.5°	2637.6	2646.4	2610.8	2549.4	2495.8	2481.1	2476.0	2357.5	2024.7	1981.5	1521.1
30°	2917.1	2932.4	2886.0	2806.4	2708.1	2638.9	2587.7	2471.4	2153.3	2112.1	1610.4
32.5°	3190.2	3184.0	3116.8	3039.0	2923.8	2837.2	2713.4	2593.6	2298.0	2250.6	1699.1
35°	3377.2	3379.4	3316.9	3224.8	3114.9	3048.4	2881.7	2725.5	2445.7	2402.0	1799.8
37.5°	3536.4	3526.5	3455.8	3369.7	3275.1	3246.7	3078.7	2870.7	2605.7	2558.0	1907.0
40°	3589.5	3578.0	3531.6	3469.7	3393.9	3391.4	3296.0	3035.3	2786.6	2739.4	2027.9
42.5°	3557.3	3542.6	3523.6	3506.7	3483.4	3494.1	3500.3	3228.2	2985.4	2932.6	2167.8
45°	3438.6	3416.4	3429.8	3466.5	3517.1	3577.7	3684.6	3441.8	3208.1	3163.9	2332.1
47.5°	3256.1	3236.0	3277.8	3356.3	3494.1	3647.4	3859.1	3677.7	3474.0	3430.0	2566.0
50°	2999.4	3005.3	3065.0	3207.9	3416.1	3679.5	4074.0	3989.9	3860.4	3819.4	2885.2
52.5°	2578.1	2579.2	2747.5	2982.0	3277.8	3662.9	4193.3	4388.9	4388.1	4338.5	3189.1
55°	2186.8	2210.7	2343.9	2655.5	3053.8	3596.5	4276.6	4582.9	4734.6	4676.5	3472.4
57.5°	1804.7	1818.6	1944.8	2257.8	2734.1	3419.3	4362.1	4815.8	5133.9	5097.2	3824.5
60°	1370.0	1391.4	1521.9	1811.1	2325.1	3105.0	4370.2	5058.9	5611.2	5574.2	4217.7
62.5°	889.2	926.2	1048.4	1319.3	1830.4	2652.9	4183.6	5217.8	6063.6	6050.5	4566.6
65°	511.1	538.9	623.9	832.9	1262.8	2085.3	3740.1	5156.7	6342.0	6334.5	4697.1
66°	417.5	435.0	500.1	651.0	1042.0	1831.2	3482.3	5027.8	6369.6	6369.9	4682.1
67.5°	333.9	341.7	370.9	466.0	768.9	1451.4	3021.6	4743.5	6335.3	6344.7	4585.4
70°	276.3	280.3	289.4	312.5	419.7	875.3	2144.7	4004.6	5991.0	5998.2	4207.8
72.5°	247.9	250.3	253.8	257.0	296.1	489.1	1309.9	3203.6	5252.7	5262.0	3632.4
75°	224.6	225.9	225.4	225.6	248.4	311.7	676.9	2391.8	4247.1	4228.4	2782.6
77.5°	197.2	198.6	195.9	196.4	219.8	239.6	336.9	1674.4	2866.2	2733.8	1567.8
80°	166.7	167.8	166.7	168.6	191.3	180.9	195.9	942.0	1267.3	1198.7	557.4
82.5°	126.0	130.5	133.7	141.2	157.6	128.6	131.0	366.9	385.9	367.4	171.0
85°	55.2	67.3	100.8	108.0	118.5	77.2	86.0	149.5	157.0	152.2	62.2
87.5°	14.5	15.8	49.8	62.7	65.7	34.8	44.8	68.1	71.8	68.1	20.6
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°	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9	720.9
2.5°	728.9	715.8	692.2	671.3	655.5	644.8	634.1	628.7	625.5	622.3	622.8
5°	752.3	725.7	685.3	656.6	640.5	630.3	625.0	622.8	621.5	618.3	618.3
7.5°	787.4	749.8	694.1	664.6	652.0	644.3	641.0	640.0	638.4	634.6	635.1
10°	831.6	779.1	712.6	683.9	672.4	663.8	659.3	657.7	654.7	650.4	651.0
12.5°	883.6	815.2	737.0	707.0	693.0	681.5	674.0	669.4	664.4	658.7	659.0
15°	940.4	854.6	763.2	727.6	708.6	692.5	680.4	672.7	664.6	657.7	657.4
17.5°	998.0	892.7	783.3	738.9	713.1	692.0	675.6	663.5	653.6	645.1	644.3
20°	1060.2	927.0	794.6	737.8	704.6	679.4	657.7	642.6	631.7	623.1	621.7
22.5°	1123.4	959.1	796.5	726.8	685.5	654.7	631.9	615.3	604.1	595.2	592.0
25°	1181.3	984.1	788.7	705.6	659.0	625.8	603.5	586.6	577.5	567.1	563.9
27.5°	1234.1	1001.5	773.2	678.6	629.2	596.6	575.6	561.2	551.3	543.2	540.5
30°	1281.5	1010.9	747.7	646.4	598.7	568.9	551.3	541.3	532.8	522.6	520.7
32.5°	1326.6	1010.9	715.0	611.3	568.4	544.6	534.1	527.9	518.3	508.4	505.7
35°	1371.6	1004.7	676.4	574.6	540.5	527.1	526.6	519.4	504.6	491.2	487.7
37.5°	1419.0	992.1	633.0	540.3	517.8	519.4	523.9	507.8	486.9	467.9	462.8
40°	1472.6	974.7	588.0	510.5	498.7	515.9	516.7	491.2	450.5	433.1	428.5
42.5°	1535.6	957.3	546.2	484.3	483.7	505.4	503.0	455.3	430.9	422.1	419.7
45°	1618.4	947.4	506.5	459.3	471.9	488.6	479.7	435.5	425.3	420.2	418.1
47.5°	1748.9	952.4	470.1	439.5	460.1	471.7	436.3	427.4	420.2	414.0	411.9
50°	1912.4	949.5	440.6	425.8	446.7	454.0	416.7	417.0	413.2	406.3	403.1
52.5°	2035.4	926.5	421.6	418.1	435.0	422.6	404.4	406.8	404.9	394.8	391.3
55°	2154.1	906.6	411.9	415.1	426.4	383.5	389.9	395.8	393.9	384.0	382.4
57.5°	2301.8	902.9	406.0	415.9	419.1	363.9	376.0	383.8	382.4	378.1	377.3
60°	2482.7	903.9	400.6	417.3	411.1	349.5	362.9	372.8	373.6	372.8	372.2
62.5°	2582.1	874.7	387.2	413.5	396.9	336.9	349.2	363.7	363.9	365.5	365.3
65°	2497.7	787.4	362.3	400.4	373.0	326.4	337.4	353.2	349.2	356.4	356.4
66°	2415.7	737.0	350.0	391.8	362.9	322.4	333.7	347.9	342.8	352.7	352.7
67.5°	2248.2	652.0	327.8	373.6	348.4	316.8	329.4	339.0	332.0	346.8	345.7
70°	1942.1	504.4	283.0	332.3	324.5	308.5	323.5	321.3	311.1	333.7	329.4
72.5°	1637.4	383.2	227.3	278.2	288.4	298.0	315.2	298.8	285.9	301.8	292.4
75°	1270.6	288.1	179.6	216.3	243.6	281.7	305.2	272.8	254.3	252.7	247.6
77.5°	686.9	197.8	142.3	165.1	193.5	261.3	298.5	244.9	217.1	210.6	206.6
80°	272.0	128.6	103.4	125.2	135.3	231.8	282.5	212.5	179.0	172.6	166.4
82.5°	112.3	76.1	66.7	83.9	88.2	198.3	253.5	174.2	138.3	191.3	203.1
85°	48.2	41.8	39.7	43.4	49.8	139.1	201.8	132.9	149.3	133.2	105.9
87.5°	14.5	17.7	16.9	16.6	18.2	33.2	107.5	74.0	109.6	41.5	31.1
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)