

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: P319526

Luminaire Tested: **GAN-SA2C-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11266 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

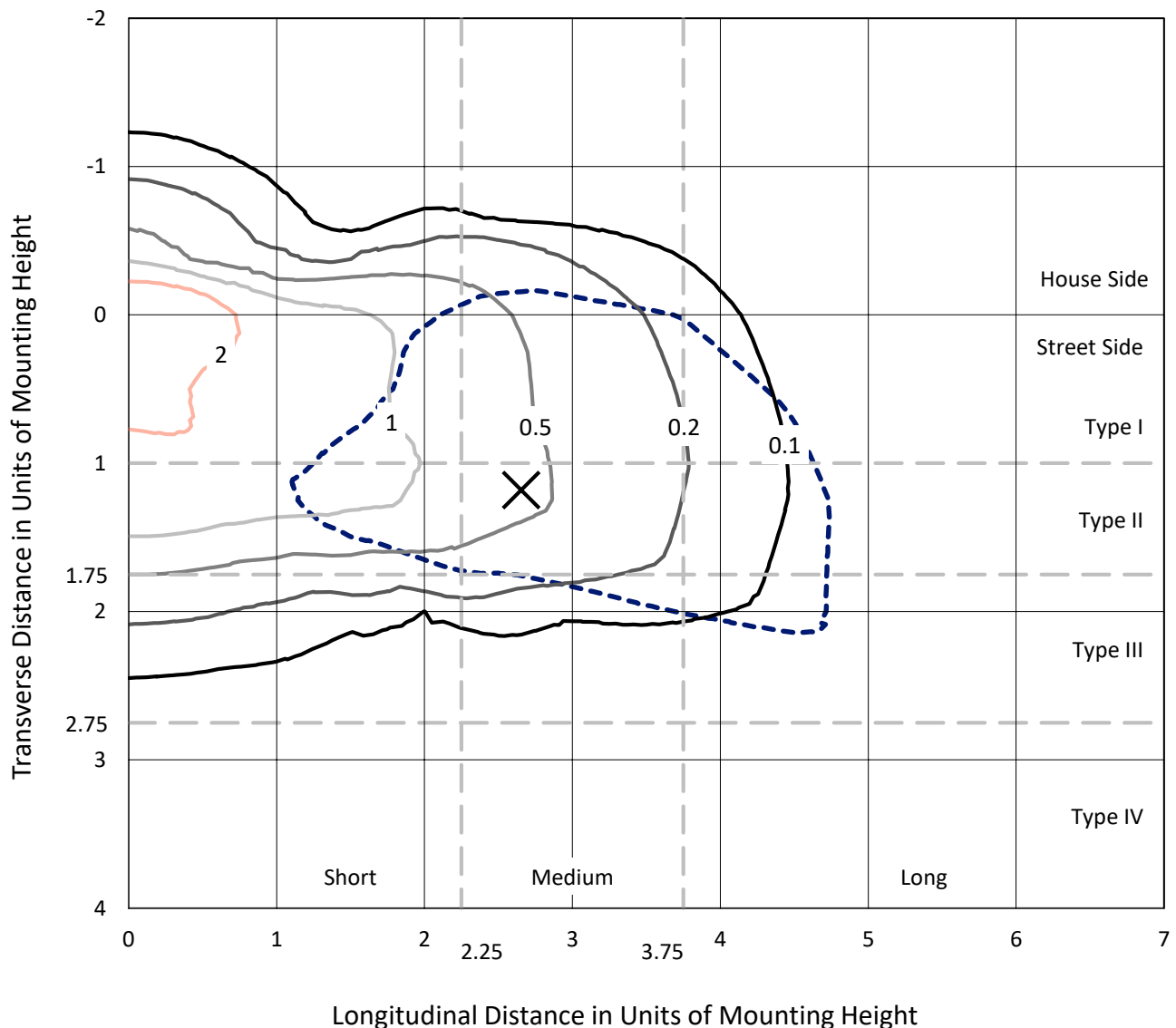
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

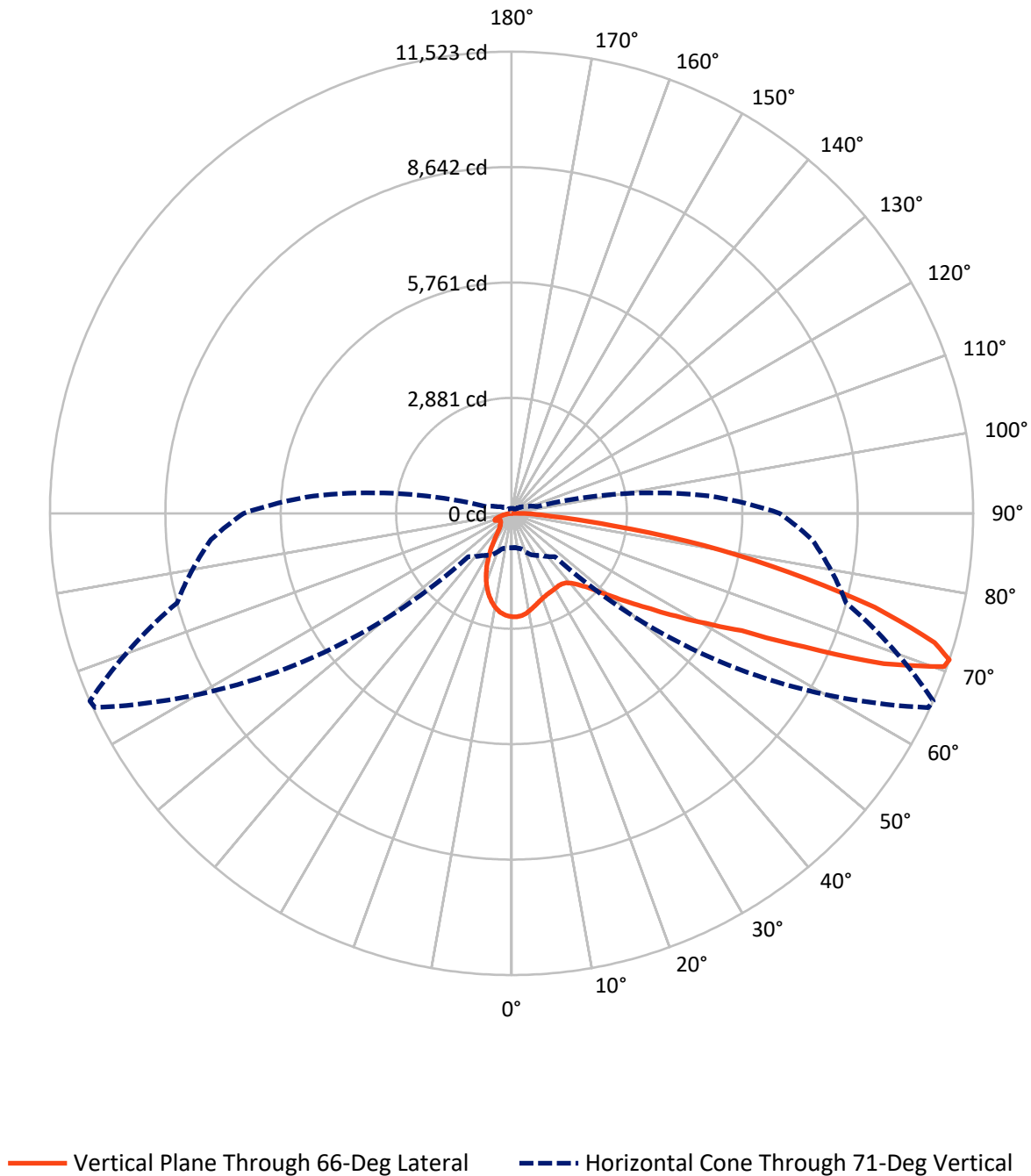
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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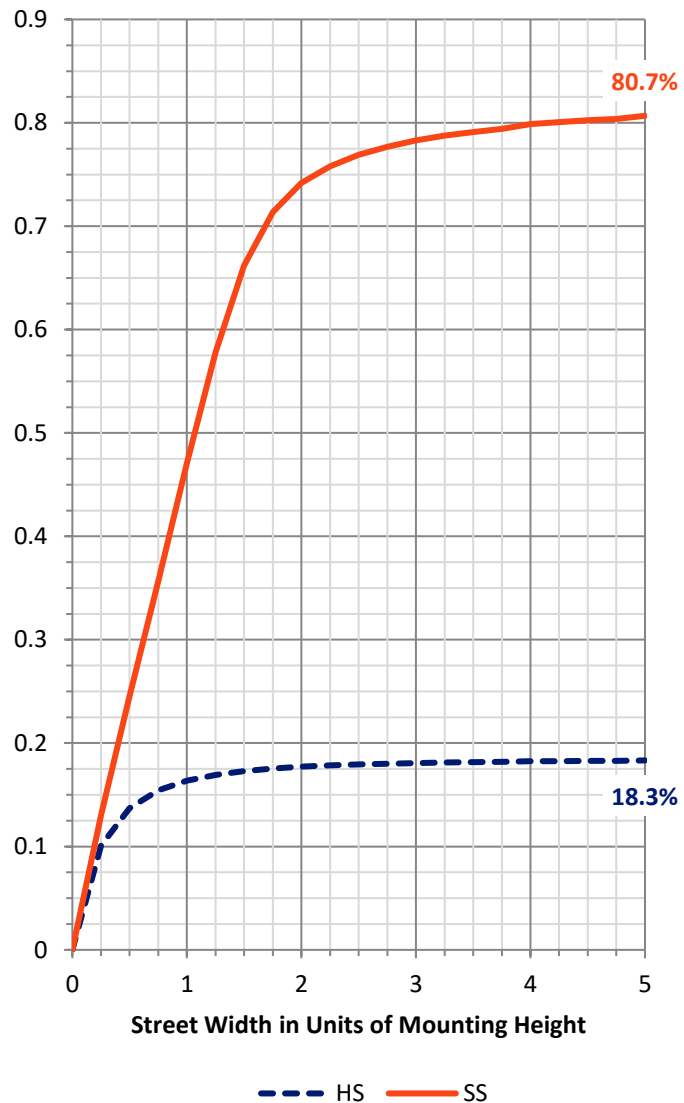
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2087.9	0.0	2087.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	9178.1	0.0	9178.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	11266.0	0.0	11266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.2	2.0
10°-20°	544.9	4.8
20°-30°	731.9	6.5
30°-40°	962.8	8.5
40°-50°	1400.6	12.4
50°-60°	2187.9	19.4
60°-70°	2740.7	24.3
70°-80°	2090.5	18.6
80°-90°	379.6	3.4
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°	11266.0	100.0
0°-180°	11266.0	100.0

Coefficient of Utilization



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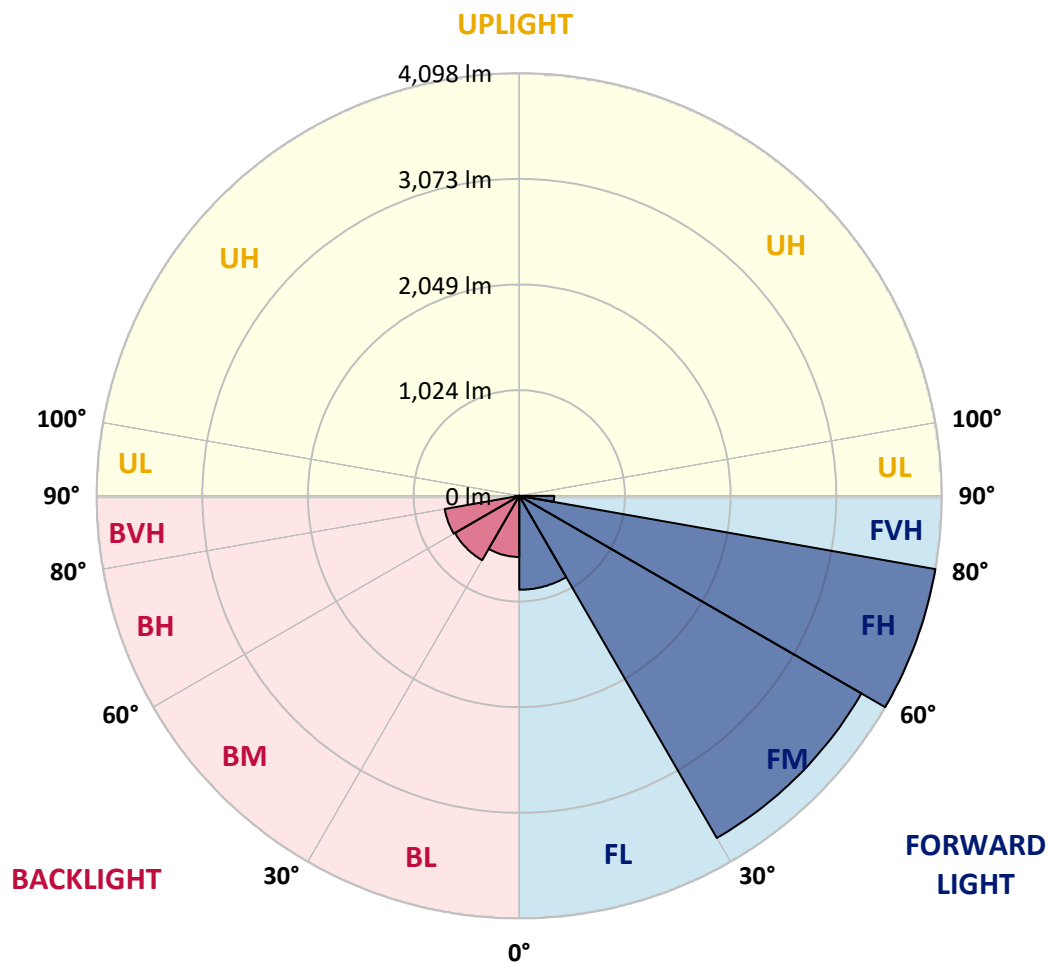
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	911.0	8.1			
FM	(30°-60°)	3831.0	34.0			
FH	(60°-80°)	4097.6	36.4			G2/5000
FVH	(80°-90°)	338.5	3.0			G3/500
BL	(0°-30°)	592.9	5.3	B2/1000		
BM	(30°-60°)	720.3	6.4	B1/1000		
BH	(60°-80°)	733.6	6.5	B2/1000		G2/1000
BVH	(80°-90°)	41.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8
2.5°	2533.0	2529.1	2540.8	2552.8	2557.5	2565.3	2576.9	2583.5	2583.2	2584.3	2580.4
5°	2364.9	2359.9	2383.2	2402.3	2438.8	2480.1	2530.3	2566.0	2566.8	2587.0	2592.5
7.5°	2205.9	2202.4	2229.2	2259.9	2302.3	2365.3	2446.6	2523.6	2528.3	2583.2	2602.2
10°	2078.3	2077.5	2103.6	2137.0	2186.4	2256.8	2350.2	2463.0	2470.0	2564.5	2603.8
12.5°	1978.7	1980.3	2002.8	2040.9	2093.1	2166.6	2267.7	2394.9	2406.2	2534.9	2594.8
15°	1905.2	1911.4	1929.7	1968.2	2019.5	2094.2	2198.1	2331.9	2349.0	2501.9	2589.8
17.5°	1863.2	1870.2	1883.0	1914.9	1963.1	2035.1	2133.5	2280.1	2295.7	2476.6	2590.2
20°	1850.7	1856.6	1863.9	1883.4	1924.2	1989.6	2082.6	2233.5	2250.2	2456.4	2594.0
22.5°	1875.2	1879.5	1880.3	1878.7	1903.6	1956.9	2045.6	2199.2	2217.1	2443.1	2596.8
25°	1927.7	1933.6	1929.3	1914.9	1906.7	1939.4	2026.5	2176.7	2194.6	2433.4	2591.3
27.5°	2006.7	2007.5	2004.0	1985.3	1946.8	1941.4	2020.7	2163.5	2180.6	2422.1	2580.0
30°	2114.1	2119.1	2112.9	2087.6	2024.6	1972.5	2027.7	2150.6	2166.2	2407.7	2561.8
32.5°	2239.7	2252.1	2251.8	2225.3	2135.1	2042.1	2056.5	2142.8	2154.9	2392.6	2539.6
35°	2370.0	2387.1	2419.0	2407.7	2296.1	2152.2	2111.7	2155.3	2163.5	2390.6	2524.0
37.5°	2505.4	2522.5	2588.2	2618.6	2487.9	2309.7	2198.9	2199.2	2203.1	2414.3	2522.9
40°	2646.9	2665.2	2764.0	2843.0	2736.4	2509.3	2339.3	2291.0	2286.8	2472.7	2545.8
42.5°	2845.3	2861.7	2980.3	3081.0	3012.2	2764.8	2533.4	2432.6	2423.7	2587.0	2619.3
45°	3096.2	3110.2	3236.2	3344.0	3308.6	3056.5	2777.3	2627.5	2625.9	2777.6	2768.3
47.5°	3394.5	3405.4	3518.6	3622.9	3635.7	3392.2	3083.8	2928.2	2902.9	3039.0	2999.0
50°	3705.3	3717.4	3794.4	3906.4	4001.7	3841.5	3478.2	3296.5	3262.7	3384.0	3325.7
52.5°	3911.1	3927.1	3994.0	4135.9	4413.3	4333.9	3944.6	3743.1	3691.7	3802.2	3757.5
55°	3819.3	3855.1	3957.4	4184.9	4742.3	5086.2	4519.8	4263.9	4205.9	4297.7	4271.3
57.5°	3401.9	3451.0	3590.6	3941.8	4788.6	5749.0	5389.6	4877.3	4836.5	4810.0	4822.1
60°	2639.2	2686.2	2859.3	3317.1	4466.2	6232.9	6698.5	5633.5	5574.3	5324.2	5335.1
62.5°	1867.8	1844.1	1962.7	2297.7	3629.1	6289.7	8187.8	6644.8	6450.3	5867.2	5819.4
65°	1424.4	1419.0	1472.3	1578.8	2198.1	5610.1	9075.1	8344.6	8040.8	6505.9	6393.1
67.5°	1170.4	1160.7	1213.2	1368.4	1415.5	3619.4	9094.5	10316.7	10018.3	7301.0	7056.7
70°	962.3	951.4	1000.4	1200.8	1308.1	1835.6	7654.2	11471.5	11455.6	8307.6	7557.7
71°	862.7	855.0	913.7	1136.2	1285.2	1529.8	6608.6	11474.6	11522.5	8648.4	7528.1
72.5°	702.5	705.2	767.4	1011.3	1268.0	1350.9	4857.1	10939.8	11040.9	8973.2	7259.4
75°	466.8	469.1	550.8	777.9	1229.5	1321.7	2669.5	9179.7	9365.6	8778.7	6624.2
77.5°	313.5	312.7	368.4	533.7	1071.2	1321.7	1565.2	6865.7	7069.9	6985.1	5106.8
80°	215.9	214.3	253.6	368.4	811.0	1337.7	1210.1	4811.6	4873.4	3772.2	2075.5
82.5°	132.3	133.4	165.7	260.2	551.9	1203.9	1142.4	2623.6	2556.3	1058.0	518.5
85°	75.8	75.5	105.8	176.2	354.4	1016.0	1114.0	1129.2	1035.8	318.6	187.5
87.5°	27.2	29.2	56.8	97.6	203.0	707.5	945.2	587.3	529.4	143.9	84.8
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°	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8	2580.8
2.5°	2577.7	2580.0	2577.3	2561.8	2548.5	2527.1	2515.1	2498.4	2493.3	2491.0	2497.2
5°	2587.4	2588.2	2565.3	2524.4	2478.5	2424.5	2385.6	2337.7	2315.2	2305.4	2311.7
7.5°	2596.4	2592.9	2542.7	2464.5	2379.7	2285.6	2202.0	2125.3	2080.6	2062.3	2063.9
10°	2597.5	2582.8	2502.3	2381.3	2249.8	2111.7	1983.4	1865.1	1790.4	1741.8	1756.6
12.5°	2585.5	2560.6	2442.7	2273.5	2091.1	1902.8	1729.4	1552.0	1445.4	1396.0	1397.6
15°	2576.2	2531.0	2369.6	2146.7	1901.7	1652.3	1415.5	1207.0	1093.4	1042.8	1019.1
17.5°	2568.4	2499.1	2284.8	2004.0	1678.0	1361.8	1077.1	891.1	828.9	814.1	807.9
20°	2557.5	2465.3	2190.3	1838.7	1423.2	1036.6	786.5	694.7	695.1	712.2	714.5
22.5°	2542.3	2426.8	2089.6	1653.1	1149.8	755.0	616.5	590.1	616.9	649.6	655.4
25°	2519.8	2381.3	1977.5	1448.1	876.7	580.3	526.7	525.5	558.2	592.4	597.5
27.5°	2487.9	2321.8	1853.1	1228.0	646.1	493.2	471.8	480.0	504.1	529.0	530.9
30°	2445.1	2252.5	1715.8	995.8	506.4	439.1	436.8	444.2	459.0	476.5	478.0
32.5°	2398.0	2182.1	1569.1	770.9	433.7	410.0	412.3	415.8	422.8	429.8	431.4
35°	2355.2	2110.2	1419.0	585.8	399.1	390.9	389.4	388.6	389.4	387.0	387.4
37.5°	2327.6	2050.7	1262.6	466.4	379.2	374.2	369.5	363.7	357.1	353.2	354.0
40°	2317.5	2006.3	1104.3	403.0	362.9	359.4	350.5	338.0	330.2	327.9	327.9
42.5°	2344.7	1983.4	951.4	371.1	349.3	343.5	328.7	314.3	308.5	308.1	307.7
45°	2428.0	1992.7	805.9	353.6	336.8	325.6	306.1	294.1	290.2	291.0	290.6
47.5°	2577.3	2051.4	681.5	341.9	324.4	309.6	287.8	278.1	273.4	273.4	273.8
50°	2831.3	2188.7	582.3	332.2	313.9	294.8	274.6	262.6	256.3	255.9	255.9
52.5°	3201.2	2434.6	520.4	324.0	302.2	281.6	261.4	246.2	238.8	237.3	236.5
55°	3664.9	2787.0	503.3	318.6	286.7	267.2	245.4	230.3	222.1	218.6	218.2
57.5°	4183.4	3215.6	537.2	312.0	270.7	250.1	227.9	213.5	205.0	200.7	200.3
60°	4708.1	3683.6	675.3	302.6	257.5	231.4	210.0	196.8	188.3	183.6	182.8
62.5°	5233.6	4176.8	957.3	301.8	248.2	213.5	191.8	180.5	172.3	167.3	166.1
65°	5826.4	4716.7	1277.8	322.5	245.1	197.2	173.1	164.1	157.1	152.5	152.1
67.5°	6507.1	5326.2	1247.0	364.9	255.6	182.4	155.6	148.6	143.5	139.6	139.3
70°	6826.4	5230.9	775.2	394.8	270.3	168.0	138.9	133.8	129.9	127.2	126.0
71°	6692.6	4966.8	650.0	391.3	268.8	161.8	132.3	128.4	124.5	122.1	121.0
72.5°	6327.8	4529.6	542.2	364.1	251.3	150.5	123.7	119.8	116.3	113.6	112.8
75°	5678.2	4045.3	434.1	291.0	200.3	127.2	108.5	104.2	101.5	100.0	98.4
77.5°	4174.0	2886.9	335.7	229.9	147.4	103.9	92.6	89.5	86.7	84.4	83.2
80°	1599.1	1118.3	226.0	171.5	108.1	82.1	74.7	73.1	70.4	68.8	68.8
82.5°	430.6	334.1	120.6	103.9	72.3	59.9	57.2	56.4	54.1	51.0	51.3
85°	174.3	147.4	67.7	57.2	44.3	35.4	38.5	38.9	36.2	32.3	32.7
87.5°	76.6	62.6	37.7	25.3	19.4	13.6	17.5	17.5	15.9	13.2	12.1
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)