

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: P318967

Luminaire Tested: **GAN-SA3C-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17931 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

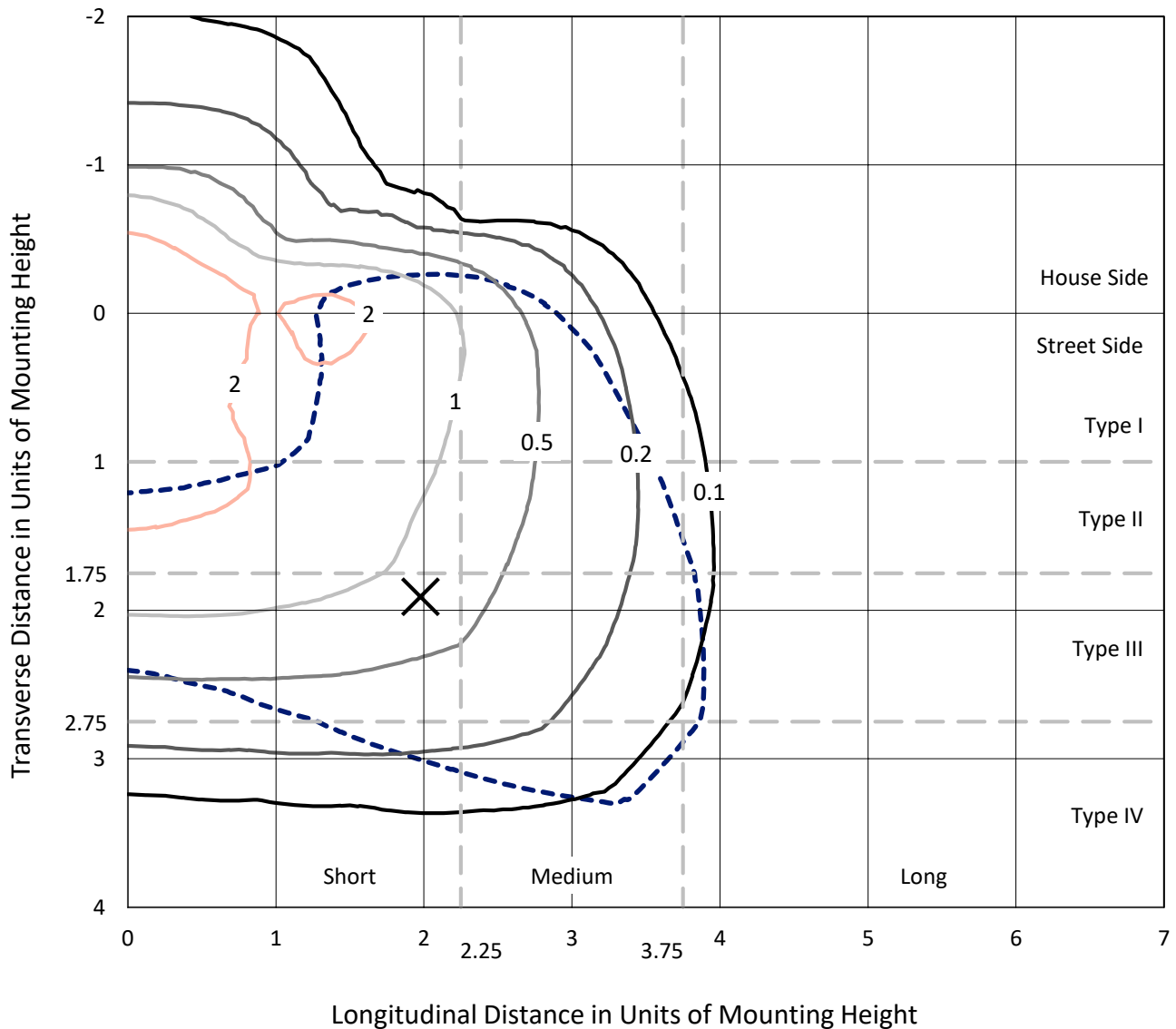
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

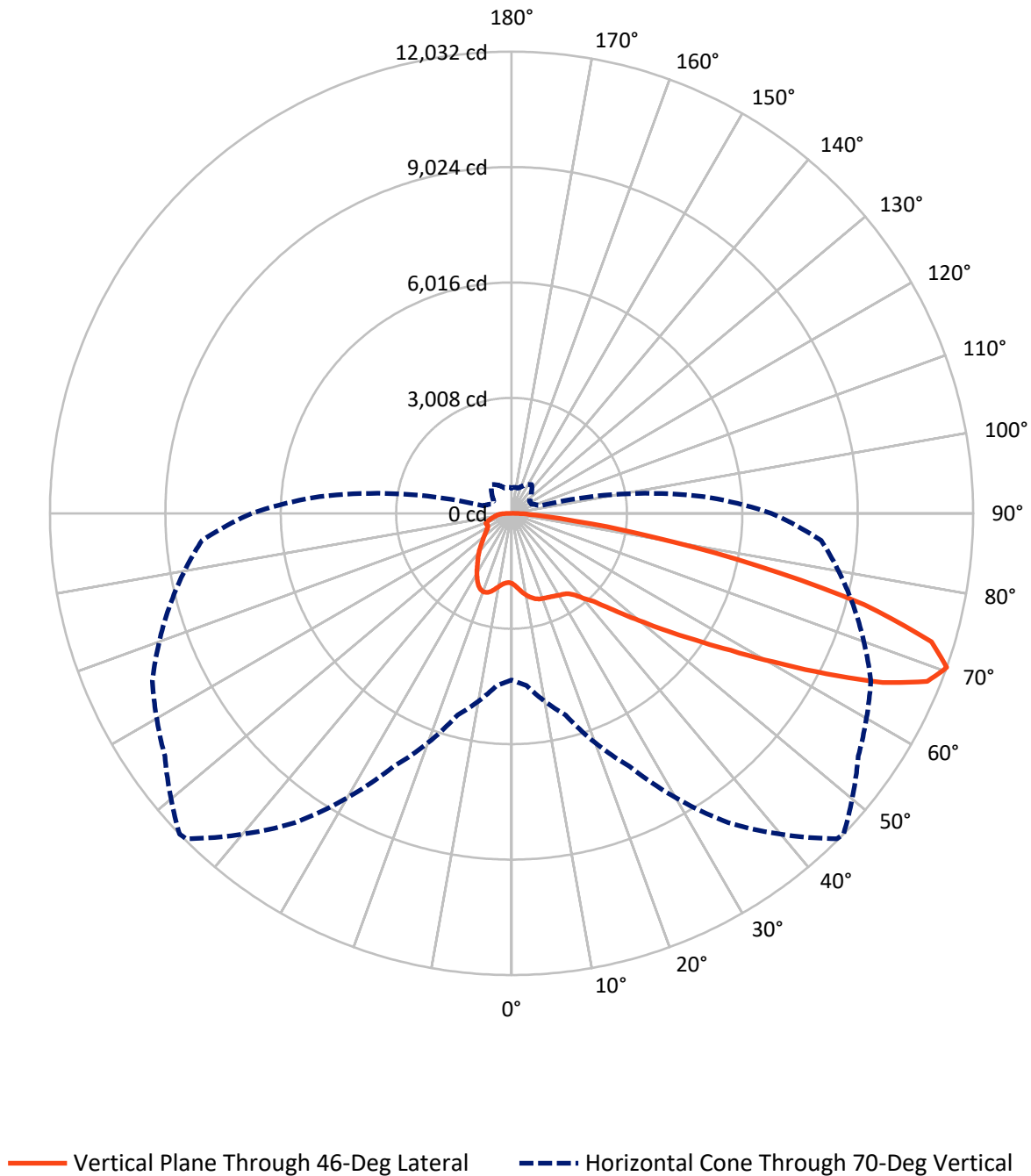
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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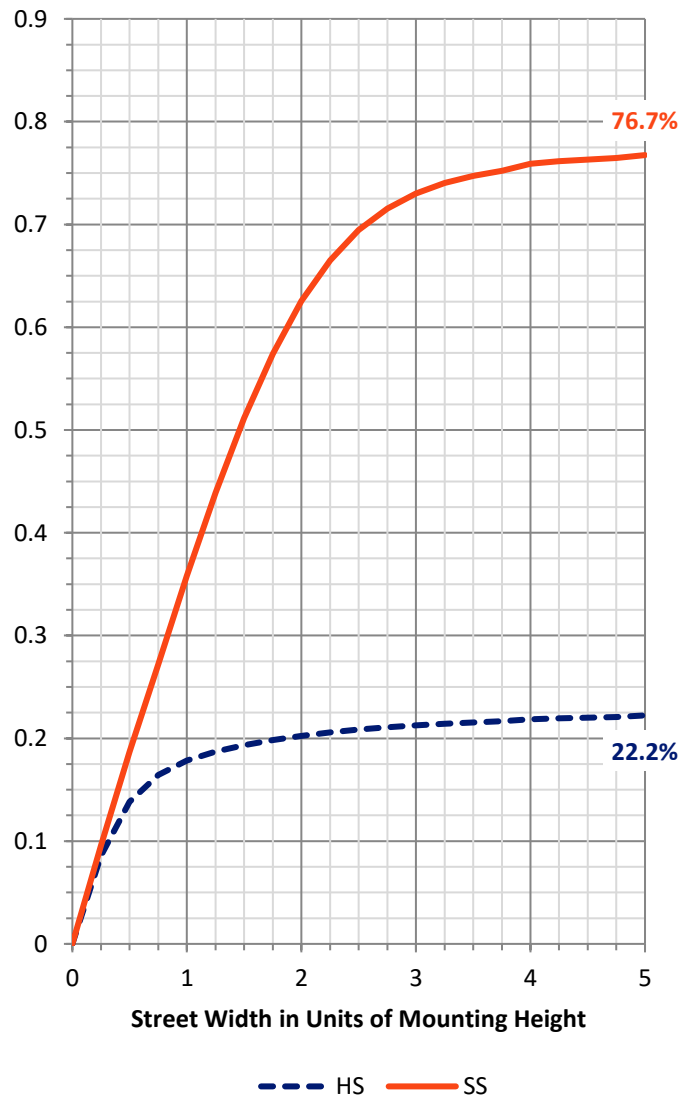
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4109.7	0.0	4109.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	13821.3	0.0	13821.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	17931.0	0.0	17931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	1.0
10°-20°	620.5	3.5
20°-30°	1034.6	5.8
30°-40°	1468.1	8.2
40°-50°	2159.5	12.0
50°-60°	3657.1	20.4
60°-70°	5191.2	29.0
70°-80°	3153.7	17.6
80°-90°	460.2	2.6
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°	17931.0	100.0
0°-180°	17931.0	100.0

Coefficient of Utilization



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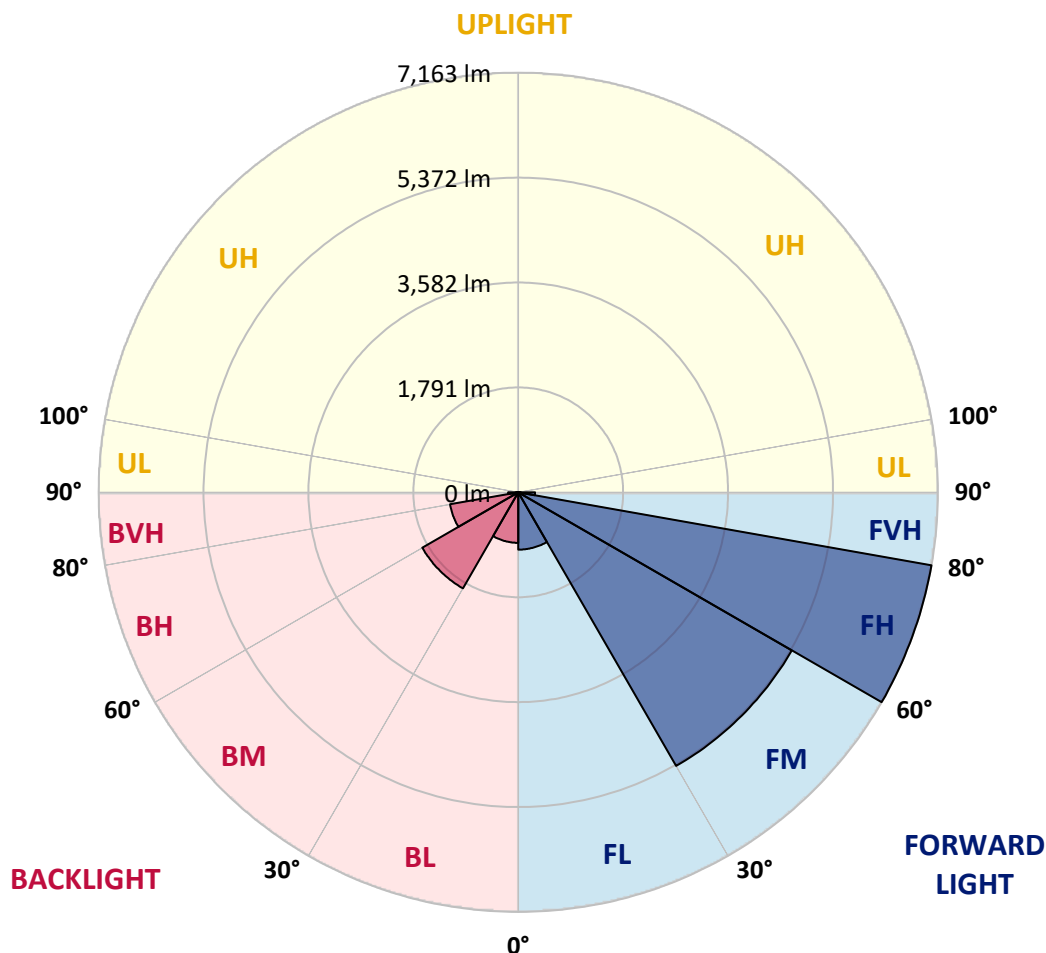
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	978.4	5.5			
FM	(30°-60°)	5392.8	30.1			
FH	(60°-80°)	7163.3	39.9			G3/7500
FVH	(80°-90°)	286.7	1.6			G3/500
BL	(0°-30°)	862.9	4.8	B2/1000		
BM	(30°-60°)	1891.8	10.6	B2/2500		
BH	(60°-80°)	1181.5	6.6	B3/2500		G3/2500
BVH	(80°-90°)	173.6	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1826.8	1826.8	1826.8	1826.8	1826.8	1826.8	1826.8	1826.8	1826.8	1826.8	1826.8
2.5°	1918.3	1919.5	1921.9	1915.8	1898.6	1893.7	1891.9	1874.1	1862.4	1845.2	1830.5
5°	2071.7	2072.9	2069.2	2052.0	2014.0	1985.8	1983.3	1942.8	1906.0	1866.7	1837.2
7.5°	2231.8	2233.7	2222.0	2189.5	2136.1	2087.0	2083.9	2028.7	1972.9	1913.3	1869.2
10°	2373.6	2366.2	2347.2	2301.8	2238.6	2178.4	2176.0	2118.3	2053.9	1982.1	1923.2
12.5°	2468.1	2461.9	2437.4	2382.2	2312.8	2257.6	2252.7	2199.3	2136.7	2058.2	1987.6
15°	2520.2	2524.5	2491.4	2428.8	2361.3	2314.7	2310.4	2272.3	2216.5	2137.3	2056.3
17.5°	2527.0	2530.7	2498.8	2436.8	2381.6	2349.6	2347.8	2322.6	2282.1	2206.0	2121.4
20°	2487.7	2490.2	2463.8	2412.8	2376.6	2366.8	2366.2	2355.2	2325.1	2257.6	2175.4
22.5°	2430.6	2432.5	2413.5	2376.6	2364.4	2379.7	2384.0	2379.7	2358.2	2295.0	2217.7
25°	2416.5	2415.3	2395.7	2358.2	2368.7	2401.2	2406.7	2408.6	2393.8	2338.6	2271.7
27.5°	2484.6	2480.3	2442.9	2382.8	2389.5	2428.8	2436.2	2454.0	2444.8	2396.3	2333.1
30°	2681.6	2674.3	2597.6	2476.1	2442.9	2463.2	2472.4	2500.6	2502.4	2461.9	2414.7
32.5°	3014.2	3005.0	2867.6	2650.3	2533.1	2498.1	2506.7	2549.1	2571.8	2540.5	2489.6
35°	3434.6	3424.1	3243.7	2946.7	2684.1	2565.0	2571.2	2604.9	2650.3	2606.1	2538.6
37.5°	3872.7	3847.5	3673.9	3295.3	2924.0	2708.0	2708.0	2712.3	2733.8	2641.7	2596.3
40°	4308.4	4283.2	4126.1	3705.2	3234.5	2933.2	2919.1	2824.0	2806.8	2727.6	2712.3
42.5°	4713.4	4706.0	4613.4	4168.5	3599.0	3154.7	3135.1	2973.7	2977.4	2928.3	2928.9
45°	5144.2	5144.2	5068.7	4636.1	4023.7	3510.7	3491.0	3253.5	3290.4	3267.7	3322.3
47.5°	5495.8	5506.8	5496.4	5123.3	4517.6	3962.9	3927.3	3641.4	3744.5	3822.4	3981.3
50°	5854.8	5872.0	5873.8	5657.8	5114.7	4500.5	4460.0	4156.2	4386.3	4609.7	4922.0
52.5°	6375.8	6414.4	6260.4	6191.1	5846.2	5138.7	5098.8	4818.3	5202.5	5516.0	6054.2
55°	6858.7	6824.9	6715.1	6758.1	6629.2	5865.2	5835.1	5589.1	6111.9	6519.4	7218.3
57.5°	7120.1	7117.7	7228.1	7412.2	7473.6	6761.1	6736.0	6496.6	7137.3	7443.5	8311.2
60°	7426.9	7431.2	7704.9	8122.8	8375.6	7876.7	7865.7	7684.0	8133.2	8306.3	9168.5
62.5°	7469.9	7547.2	8018.5	8737.7	9220.0	9180.1	9204.7	8753.6	9024.2	8994.8	9808.5
65°	6975.9	7077.8	7930.7	8923.6	10059.5	10605.6	10628.3	9829.3	9726.9	9583.3	10037.4
67.5°	5963.4	6114.3	7041.0	8519.2	10336.2	11659.2	11691.1	10663.3	10309.8	9782.7	9486.3
70°	4339.7	4507.2	5440.0	7276.0	9842.8	11996.1	12032.3	11032.1	10331.9	9215.1	8098.3
72.5°	2621.5	2752.8	3521.7	5356.5	8307.5	11382.5	11446.9	10564.5	9432.9	7805.6	5980.0
75°	1151.2	1237.1	1702.9	3086.6	5947.4	9417.6	9498.0	9042.7	7664.4	5672.5	3534.6
77.5°	490.3	514.8	698.3	1340.8	3362.2	6435.3	6545.7	6607.1	5200.0	3086.6	1493.6
80°	305.6	315.4	395.2	606.9	1573.4	3614.4	3733.4	3887.4	2582.2	1134.6	521.6
82.5°	185.9	197.0	262.6	367.0	819.2	1638.4	1695.5	1804.1	1002.1	490.3	270.0
85°	111.7	119.7	160.8	232.0	466.4	644.3	643.7	711.8	471.9	315.4	142.4
87.5°	53.4	59.5	85.9	120.3	235.0	241.8	226.4	256.5	286.6	206.8	71.8
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°	1826.8	1826.8	1826.8	1826.8	1826.8	1826.8	1826.8	1826.8	1826.8	1826.8	1826.8
2.5°	1825.6	1823.1	1815.2	1809.0	1807.8	1804.1	1801.0	1802.9	1805.3	1806.0	1806.0
5°	1825.0	1818.2	1807.8	1803.5	1809.0	1816.4	1825.6	1837.9	1845.2	1850.8	1854.4
7.5°	1854.4	1841.5	1829.9	1827.4	1838.5	1858.1	1879.0	1904.8	1922.5	1934.8	1937.3
10°	1903.5	1887.6	1875.9	1878.4	1898.0	1926.2	1955.7	1988.8	2015.8	2032.4	2033.6
12.5°	1960.0	1944.6	1933.6	1944.0	1976.5	2010.9	2041.6	2070.4	2095.0	2111.5	2111.5
15°	2025.0	2014.0	2001.1	2025.0	2069.2	2099.9	2112.8	2126.9	2140.4	2152.7	2150.2
17.5°	2087.6	2077.2	2070.4	2098.7	2144.7	2158.8	2150.2	2139.8	2139.8	2146.5	2147.8
20°	2141.6	2132.4	2136.7	2164.3	2188.3	2173.5	2141.6	2108.5	2095.0	2098.7	2102.3
22.5°	2188.9	2184.6	2197.5	2210.3	2193.2	2141.6	2082.7	2037.9	2021.3	2020.1	2021.3
25°	2244.1	2243.5	2259.4	2236.1	2160.0	2064.9	1985.8	1942.2	1933.0	1940.3	1952.6
27.5°	2312.8	2319.6	2327.6	2242.3	2092.5	1948.9	1868.5	1838.5	1847.7	1865.5	1877.1
30°	2400.6	2419.0	2401.8	2226.9	1995.6	1816.4	1739.7	1731.1	1756.2	1781.4	1793.7
32.5°	2485.9	2514.7	2473.0	2187.0	1870.4	1675.9	1616.3	1613.9	1644.6	1669.1	1686.3
35°	2554.6	2611.7	2526.4	2107.9	1725.6	1546.4	1502.8	1486.2	1497.3	1526.1	1545.8
37.5°	2644.2	2739.3	2563.2	1987.0	1568.5	1439.6	1388.7	1350.6	1340.8	1352.5	1362.3
40°	2808.0	2933.8	2580.4	1818.2	1415.1	1332.8	1281.3	1225.4	1186.8	1158.6	1159.2
42.5°	3075.6	3187.3	2569.3	1613.3	1273.3	1228.5	1170.2	1105.8	1043.2	979.4	974.5
45°	3510.0	3564.0	2536.2	1396.0	1148.7	1119.3	1064.7	1000.2	916.8	844.4	837.6
47.5°	4205.3	4085.6	2484.6	1206.4	1038.9	1026.6	976.3	902.1	813.7	755.4	750.5
50°	5153.4	4838.6	2459.5	1055.5	941.9	945.6	904.5	826.0	742.5	699.6	694.6
52.5°	6287.4	5715.5	2508.0	938.9	864.0	876.9	846.2	772.6	702.6	668.9	664.0
55°	7463.8	6623.7	2560.1	854.2	790.4	815.5	805.1	744.4	681.1	649.8	645.6
57.5°	8470.7	7301.7	2455.8	785.5	724.7	764.0	773.2	726.6	670.1	641.9	637.0
60°	9104.6	7574.8	2182.1	721.0	672.6	722.9	754.8	721.6	674.4	671.9	668.3
62.5°	9405.3	7550.9	1771.6	670.1	640.0	705.1	768.3	749.3	723.5	745.6	747.4
65°	9270.3	7190.1	1319.3	636.3	616.7	711.8	808.8	801.4	737.6	759.7	762.8
67.5°	8381.8	6329.1	976.9	606.9	590.9	730.8	882.4	818.6	710.0	725.9	716.1
70°	6774.6	5017.8	753.6	573.8	564.6	728.4	915.6	808.2	679.9	683.6	657.2
72.5°	4671.7	3421.7	613.0	543.1	526.5	664.0	892.2	782.4	654.8	626.5	591.6
75°	2540.5	1836.6	521.0	511.2	459.6	583.0	849.3	764.0	632.1	594.6	575.0
77.5°	999.6	762.1	452.3	467.6	401.9	514.8	801.4	729.0	600.8	551.7	541.8
80°	408.1	389.1	374.9	404.4	345.5	450.4	743.7	687.9	563.3	511.8	492.1
82.5°	231.3	241.8	291.5	319.1	280.4	414.8	716.1	654.8	518.5	458.4	435.1
85°	118.4	141.8	203.1	228.9	206.2	352.8	659.7	573.1	416.1	351.0	352.8
87.5°	57.1	79.2	128.3	143.6	133.8	255.3	492.8	415.4	324.0	256.5	248.5
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)