

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: P192642

Luminaire Tested: **GAN-AF-04-LED-U-5WQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-5WQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26833 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 258
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: 28.75 FT



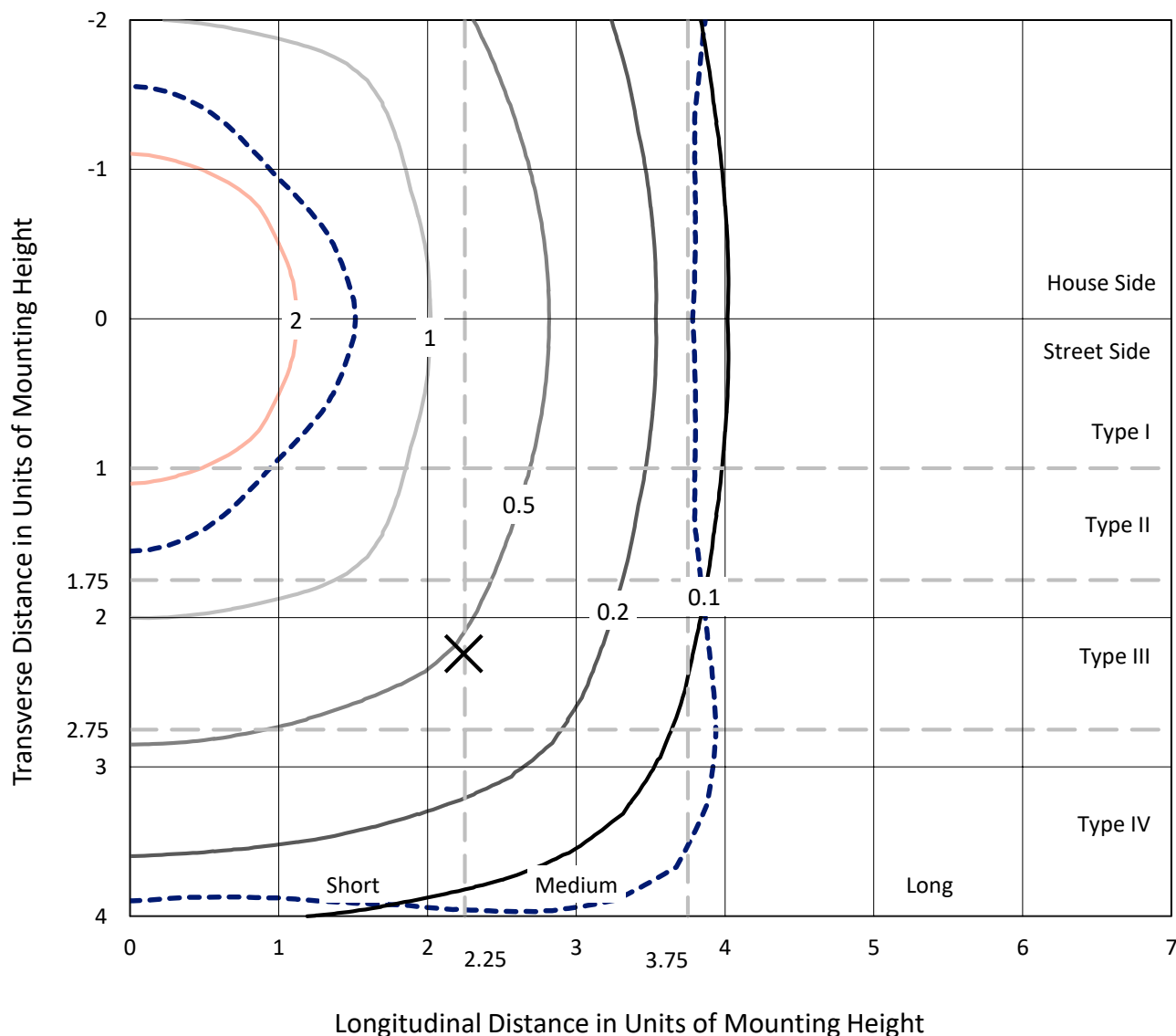
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

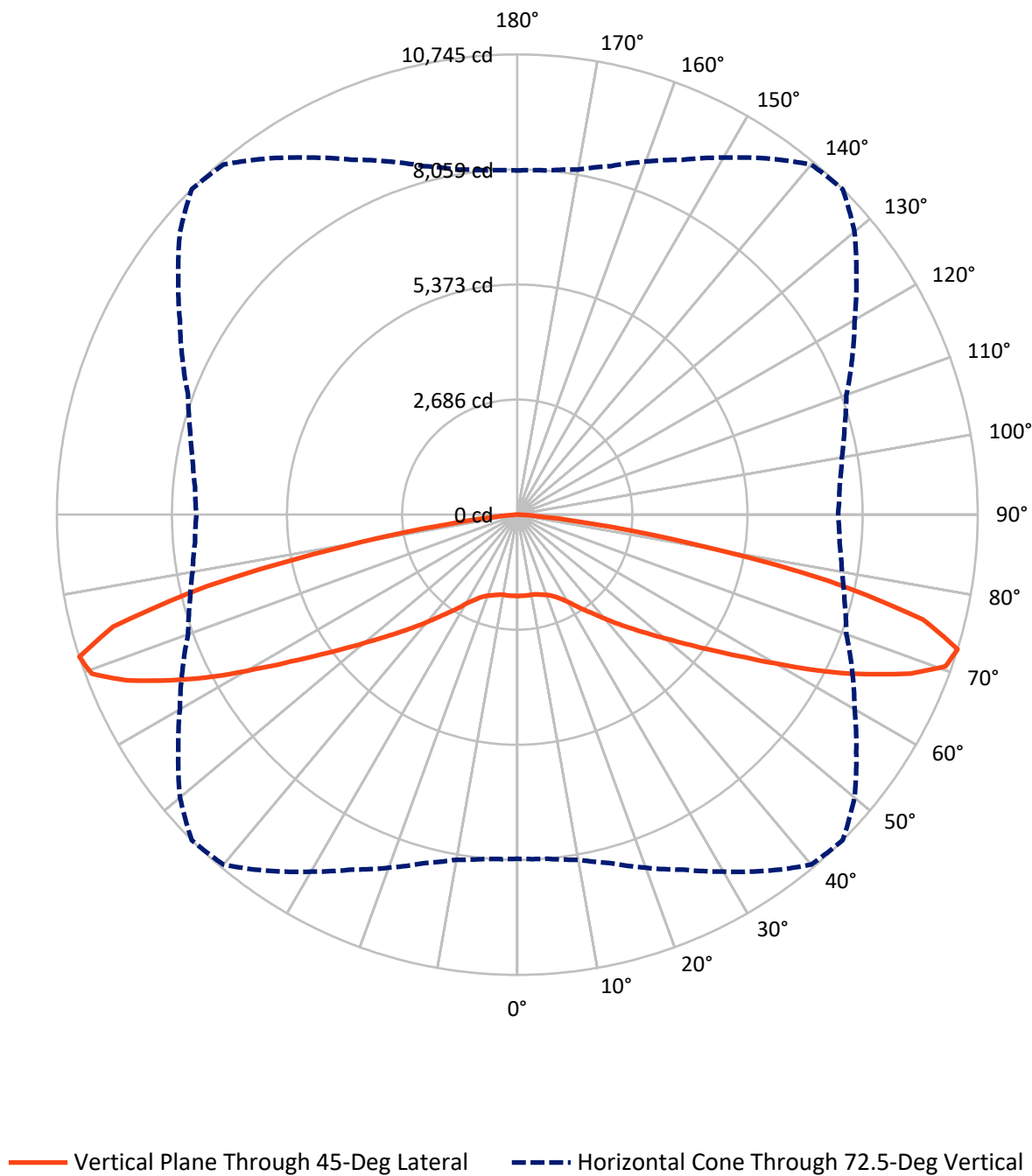


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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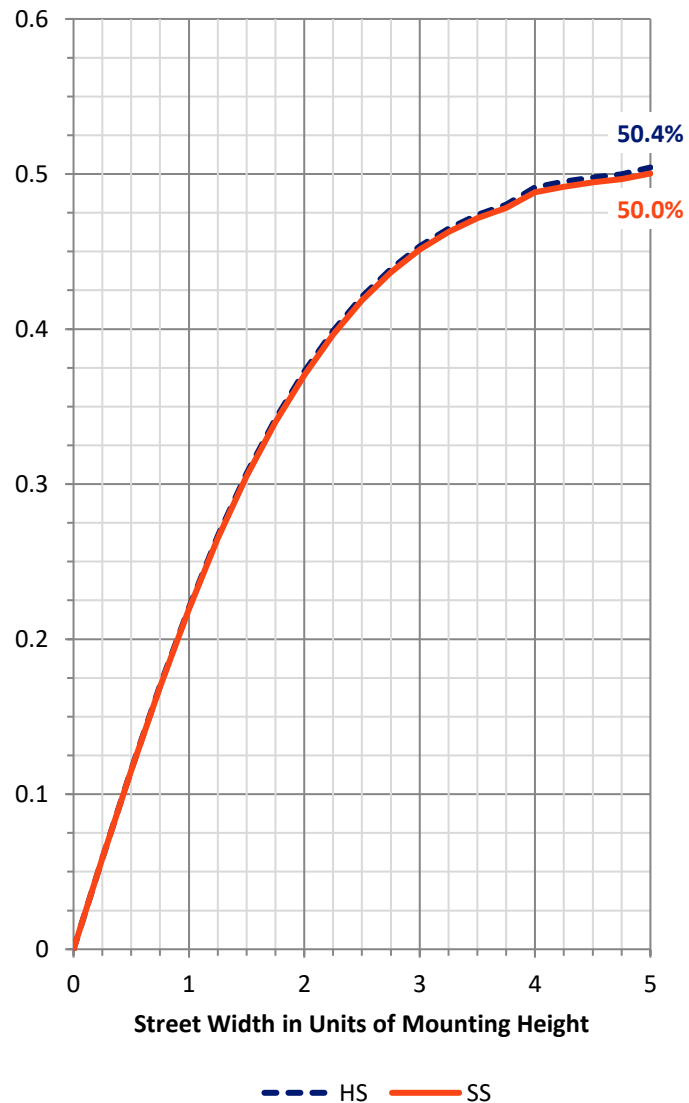
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13416.5	0.0	13416.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13416.5	0.0	13416.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26833.0	0.0	26833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.4	0.7
10°-20°	551.1	2.1
20°-30°	1007.0	3.8
30°-40°	1736.3	6.5
40°-50°	2968.2	11.1
50°-60°	4811.1	17.9
60°-70°	7981.4	29.7
70°-80°	7029.7	26.2
80°-90°	566.8	2.1
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°	26833.0	100.0
0°-180°	26833.0	100.0

Coefficient of Utilization



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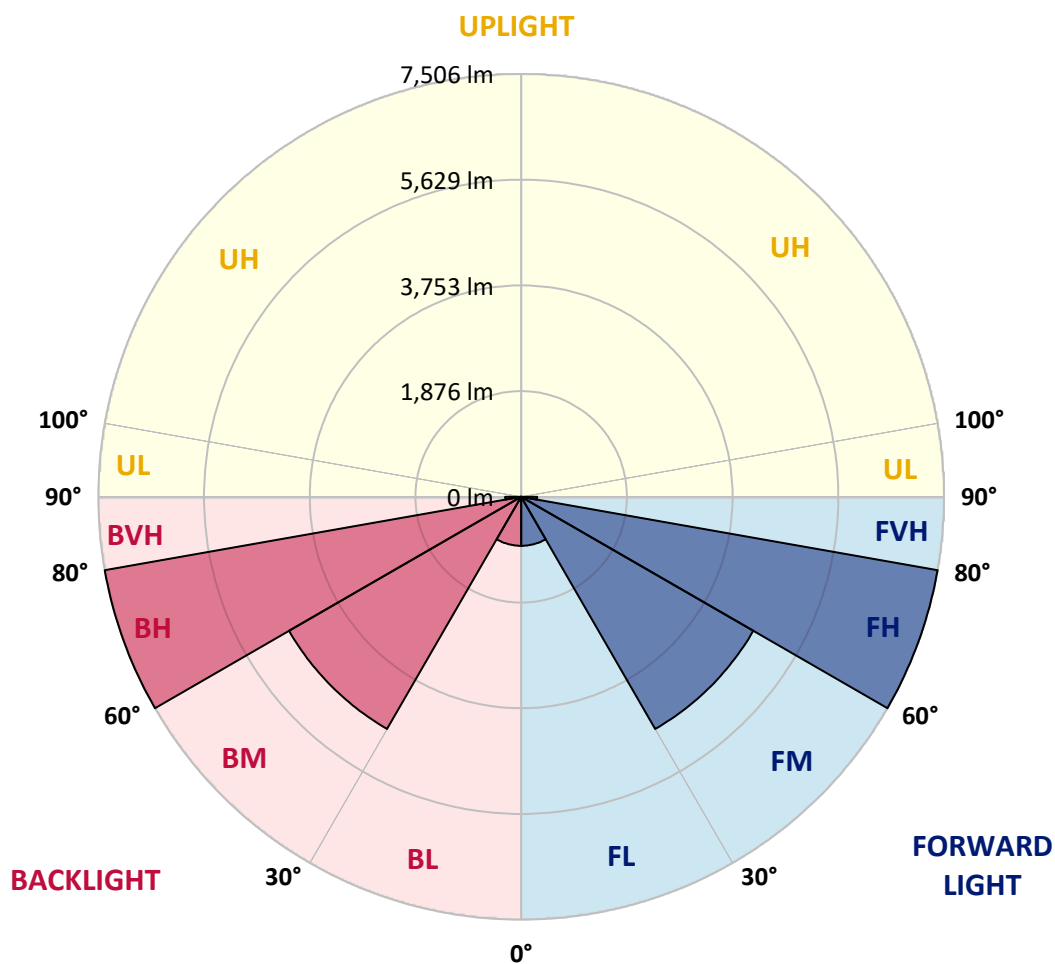
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	869.8	3.2			
FM	(30°-60°)	4757.8	17.7			
FH	(60°-80°)	7505.5	28.0			G4/12000
FVH	(80°-90°)	283.4	1.1			G3/500
BL	(0°-30°)	869.8	3.2	B2/1000		
BM	(30°-60°)	4757.8	17.7	B3/5000		
BH	(60°-80°)	7505.5	28.0	B5		G4/12000
BVH	(80°-90°)	283.4	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1900.2	1900.2	1900.2	1900.2	1900.2	1900.2	1900.2	1900.2	1900.2	1900.2	1900.2
2.5°	1900.2	1901.4	1902.6	1901.4	1901.4	1900.2	1898.9	1900.2	1898.9	1896.5	1897.8
5°	1906.3	1908.8	1908.8	1906.3	1907.5	1906.3	1903.9	1905.2	1902.6	1898.9	1898.9
7.5°	1913.6	1915.0	1915.0	1912.5	1913.6	1911.3	1908.8	1907.5	1905.2	1900.2	1896.5
10°	1924.8	1926.0	1924.8	1922.3	1922.3	1918.7	1912.5	1910.1	1905.2	1897.8	1894.0
12.5°	1937.1	1938.4	1937.1	1934.7	1933.5	1927.3	1922.3	1918.7	1915.0	1908.8	1902.6
15°	1954.3	1956.9	1954.3	1949.4	1945.7	1940.8	1938.4	1939.6	1940.8	1935.8	1929.7
17.5°	1986.4	1987.5	1983.9	1972.7	1967.9	1963.0	1963.0	1965.5	1969.1	1966.6	1960.5
20°	2045.5	2041.7	2033.1	2019.5	2013.4	2004.8	2003.6	2004.8	2004.8	2003.6	1998.7
22.5°	2119.3	2116.8	2105.8	2088.5	2079.9	2075.0	2067.5	2061.4	2060.2	2056.5	2051.6
25°	2207.9	2206.6	2193.1	2178.3	2172.2	2166.1	2159.8	2151.2	2143.8	2135.3	2130.3
27.5°	2321.1	2316.2	2296.5	2289.1	2280.5	2276.8	2268.2	2258.3	2252.2	2241.1	2234.9
30°	2445.4	2445.4	2429.4	2426.9	2426.9	2418.4	2408.5	2391.2	2380.2	2369.1	2365.4
32.5°	2569.7	2570.9	2554.9	2559.8	2563.5	2569.7	2572.2	2566.0	2558.7	2557.4	2550.0
35°	2749.4	2744.5	2728.4	2732.1	2730.9	2729.8	2729.8	2743.2	2745.6	2748.1	2733.3
37.5°	2972.2	2972.2	2956.1	2956.1	2948.7	2941.4	2931.5	2940.1	2953.8	2957.3	2947.5
40°	3226.9	3235.5	3215.8	3214.6	3217.0	3193.6	3182.6	3196.2	3204.7	3219.6	3208.4
42.5°	3527.2	3521.0	3501.3	3498.8	3485.4	3477.9	3468.1	3479.2	3492.7	3502.6	3506.2
45°	3815.2	3810.2	3788.1	3788.1	3774.6	3768.4	3773.3	3791.8	3798.0	3811.5	3824.9
47.5°	4099.4	4093.3	4078.5	4084.6	4085.9	4097.0	4112.9	4130.2	4147.5	4165.9	4172.1
50°	4389.9	4391.1	4375.1	4389.9	4408.4	4439.1	4482.2	4510.4	4546.2	4569.6	4577.0
52.5°	4654.5	4659.4	4676.7	4711.2	4748.0	4808.3	4882.1	4951.1	5010.2	5049.5	5047.1
55°	4972.0	4979.4	5021.2	5080.3	5140.6	5231.7	5341.2	5463.1	5561.6	5618.1	5582.4
57.5°	5378.2	5394.1	5440.9	5520.9	5610.7	5728.9	5879.0	6062.4	6215.0	6291.2	6233.5
60°	5935.6	5945.5	6002.0	6090.6	6199.1	6345.4	6546.0	6792.2	7007.6	7108.5	7042.1
62.5°	6670.4	6688.9	6734.4	6824.3	6935.0	7101.1	7346.0	7653.7	7922.0	8062.2	7912.1
65°	7547.8	7606.9	7645.1	7736.1	7839.6	8015.5	8271.5	8601.3	8889.4	8981.6	8808.1
67.5°	8416.7	8468.3	8534.9	8639.4	8744.1	8942.3	9179.8	9499.8	9816.1	9899.7	9630.2
70°	8797.0	8826.5	8929.9	9072.7	9273.3	9507.0	9781.6	10140.9	10532.3	10601.2	10259.1
72.5°	8035.3	8064.8	8180.5	8422.9	8772.4	9144.0	9622.8	10150.7	10667.6	10745.2	10273.8
75°	6077.2	6029.2	6200.3	6521.4	6992.8	7510.9	8180.5	8937.3	9684.3	9781.6	9219.1
77.5°	3140.7	3134.5	3263.8	3662.6	4224.9	4814.5	5551.7	6407.0	7138.0	7433.4	6975.5
80°	884.9	894.8	956.2	1154.5	1482.9	1908.8	2484.8	3286.0	3884.0	4189.3	3933.4
82.5°	347.0	374.1	397.4	434.5	477.5	540.3	721.2	1073.2	1439.9	1720.5	1409.1
85°	124.3	133.0	188.3	222.8	226.5	238.7	271.9	317.5	382.7	456.6	375.5
87.5°	46.8	51.7	60.3	99.7	98.5	89.8	109.5	114.5	86.1	78.7	97.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1900.2	1900.2	1900.2	1900.2	1900.2	1900.2	1900.2	1900.2
2.5°	1895.3	1896.5	1896.5	1897.8	1898.9	1898.9	1901.4	1901.4
5°	1896.5	1896.5	1894.0	1895.3	1894.0	1894.0	1895.3	1895.3
7.5°	1894.0	1892.8	1890.3	1889.1	1886.7	1886.7	1886.7	1886.7
10°	1890.3	1889.1	1886.7	1885.4	1884.1	1884.1	1884.1	1884.1
12.5°	1900.2	1896.5	1894.0	1892.8	1892.8	1892.8	1892.8	1892.8
15°	1926.0	1917.4	1911.3	1911.3	1912.5	1915.0	1915.0	1917.4
17.5°	1958.0	1948.2	1942.1	1937.1	1939.6	1943.2	1945.7	1948.2
20°	1996.1	1991.2	1982.6	1977.7	1977.7	1982.6	1985.1	1986.4
22.5°	2049.1	2045.5	2041.7	2035.6	2035.6	2038.0	2042.9	2042.9
25°	2127.9	2125.4	2122.9	2118.0	2116.8	2116.8	2119.3	2121.7
27.5°	2226.3	2227.6	2225.1	2223.9	2220.1	2218.9	2222.7	2221.3
30°	2358.1	2364.2	2370.3	2365.4	2359.2	2355.5	2351.8	2346.9
32.5°	2536.5	2529.1	2524.1	2515.5	2504.4	2494.6	2487.3	2478.6
35°	2705.0	2692.8	2687.9	2695.2	2694.0	2687.9	2679.2	2671.8
37.5°	2911.9	2909.3	2911.9	2925.3	2922.9	2929.0	2911.9	2910.5
40°	3172.8	3175.2	3192.4	3208.4	3217.0	3225.7	3215.8	3206.0
42.5°	3475.4	3474.2	3480.5	3502.6	3517.3	3527.2	3506.2	3503.8
45°	3795.4	3786.8	3791.8	3810.2	3824.9	3836.1	3812.7	3812.7
47.5°	4147.5	4132.6	4116.7	4137.6	4146.2	4153.6	4135.1	4129.0
50°	4540.0	4509.2	4474.8	4483.5	4483.5	4480.9	4457.6	4456.3
52.5°	4990.4	4933.8	4871.1	4847.8	4834.1	4819.4	4778.8	4759.2
55°	5508.7	5423.6	5325.2	5264.8	5232.9	5192.3	5124.6	5106.1
57.5°	6114.0	5981.2	5811.4	5737.5	5666.0	5599.6	5524.5	5503.7
60°	6831.6	6635.9	6410.7	6274.1	6196.5	6132.5	6055.0	6051.4
62.5°	7631.5	7322.7	7067.9	6944.8	6888.2	6831.6	6757.8	6767.6
65°	8444.9	8122.6	7883.8	7784.1	7731.1	7684.4	7610.6	7621.7
67.5°	9247.4	8950.8	8688.8	8586.5	8527.4	8468.3	8401.9	8413.1
70°	9823.4	9455.4	9160.1	8933.6	8792.1	8632.1	8528.7	8502.9
72.5°	9658.5	9091.1	8622.2	8173.0	7909.8	7695.5	7550.4	7487.5
75°	8358.9	7583.5	6980.5	6429.2	6119.1	5866.6	5683.3	5569.0
77.5°	6207.7	5336.3	4623.8	3988.7	3486.6	3149.4	2911.9	2758.0
80°	3398.0	2584.4	1889.1	1327.9	975.9	811.0	716.3	670.8
82.5°	1058.4	683.1	503.3	434.5	403.7	386.4	358.2	312.6
85°	337.2	295.3	274.5	262.1	249.8	217.9	150.1	136.6
87.5°	130.4	134.2	133.0	125.5	128.0	92.4	73.9	65.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)