

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: P193382

Luminaire Tested: **GAN-AF-04-LED-U-5NQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-5NQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16329 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 171
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

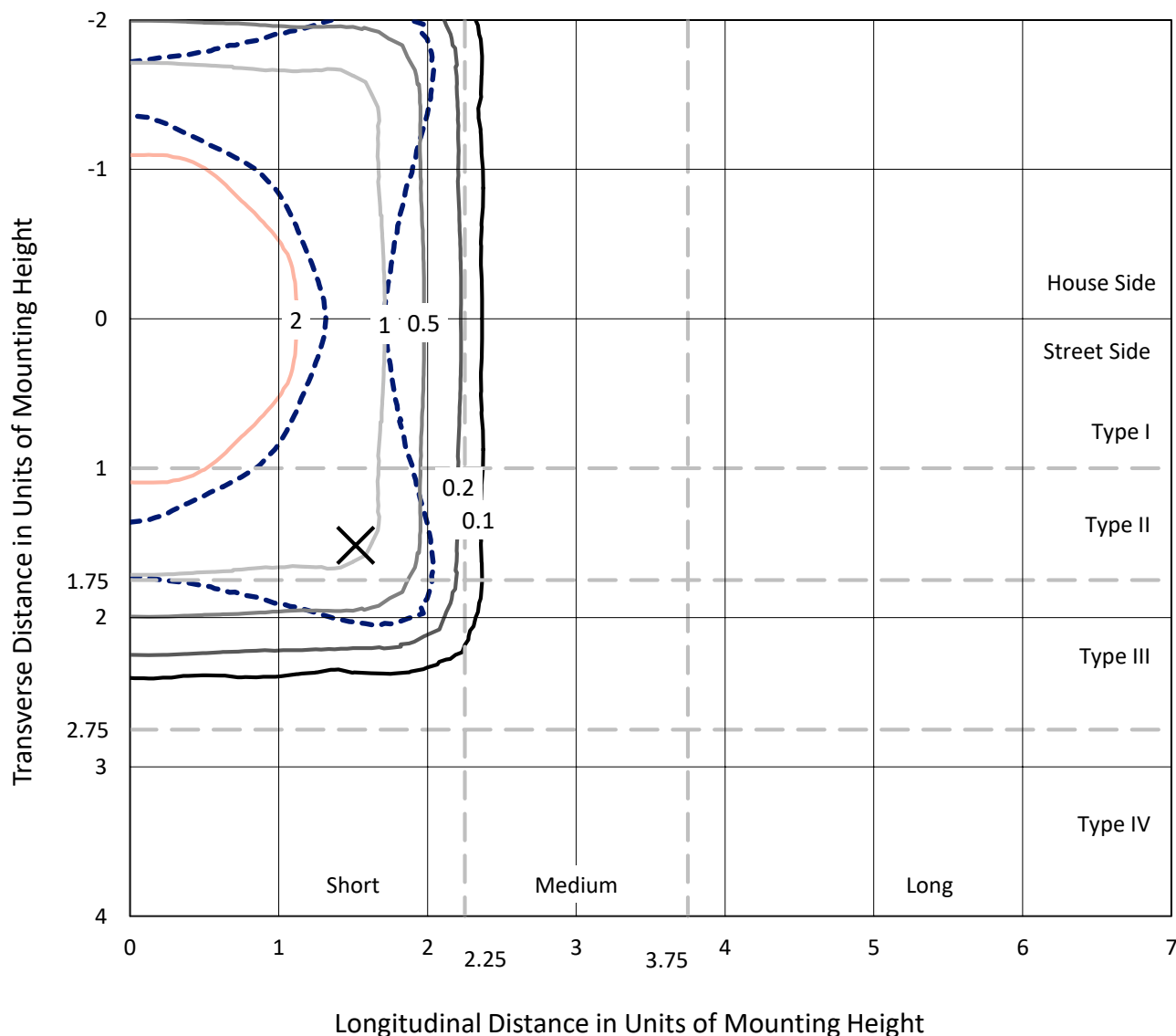


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

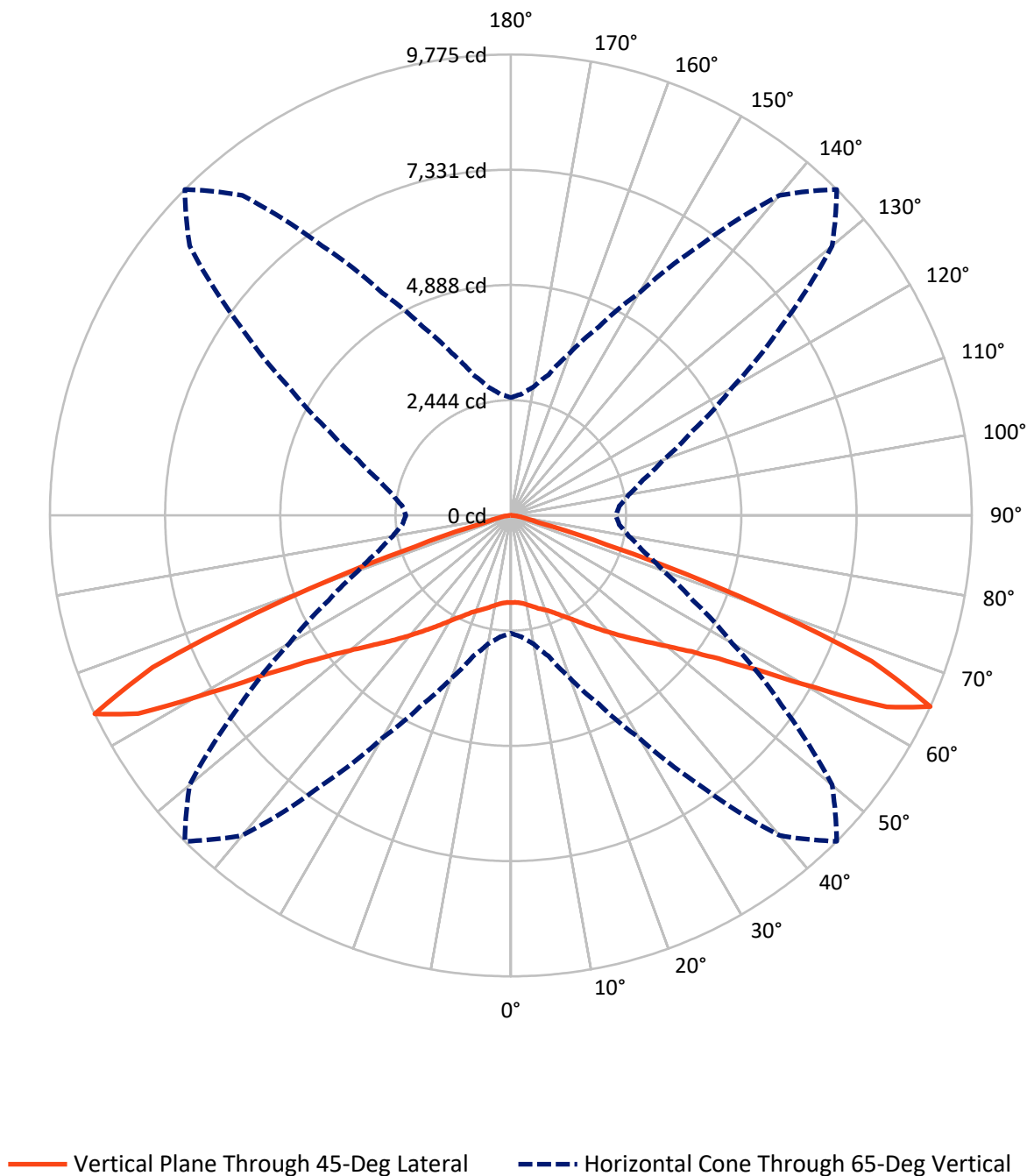


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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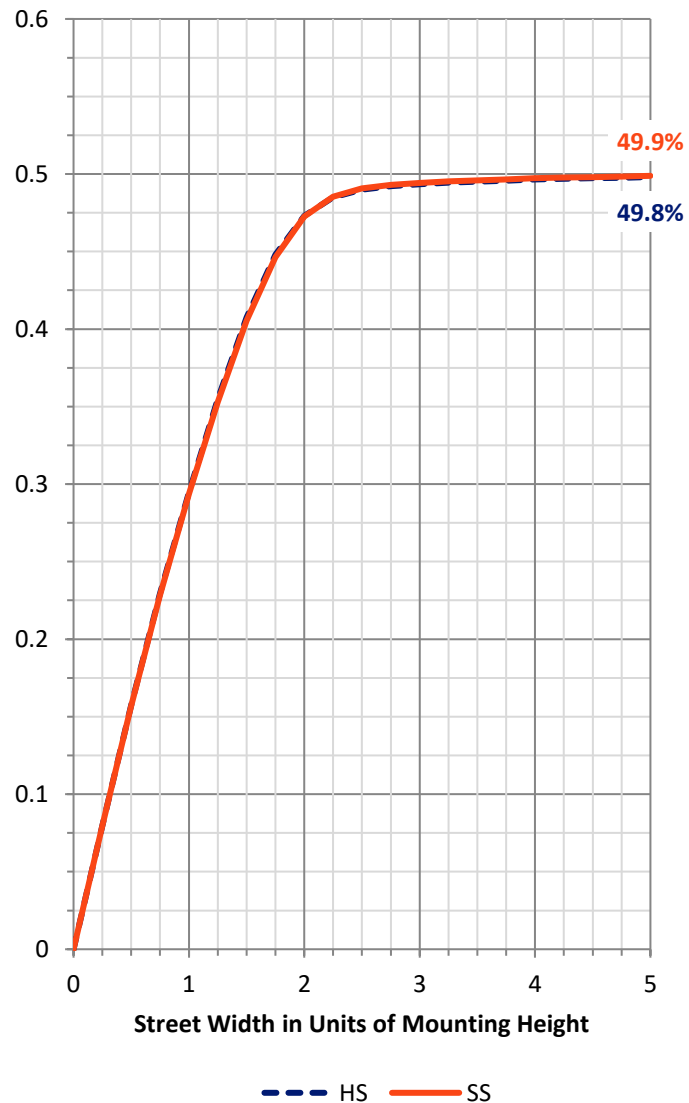
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8164.5	0.0	8164.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8164.5	0.0	8164.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16329.0	0.0	16329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	1.1
10°-20°	577.6	3.5
20°-30°	1079.9	6.6
30°-40°	1826.5	11.2
40°-50°	2986.5	18.3
50°-60°	4749.0	29.1
60°-70°	4292.8	26.3
70°-80°	543.3	3.3
80°-90°	93.5	0.6
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°	16329.0	100.0
0°-180°	16329.0	100.0

Coefficient of Utilization



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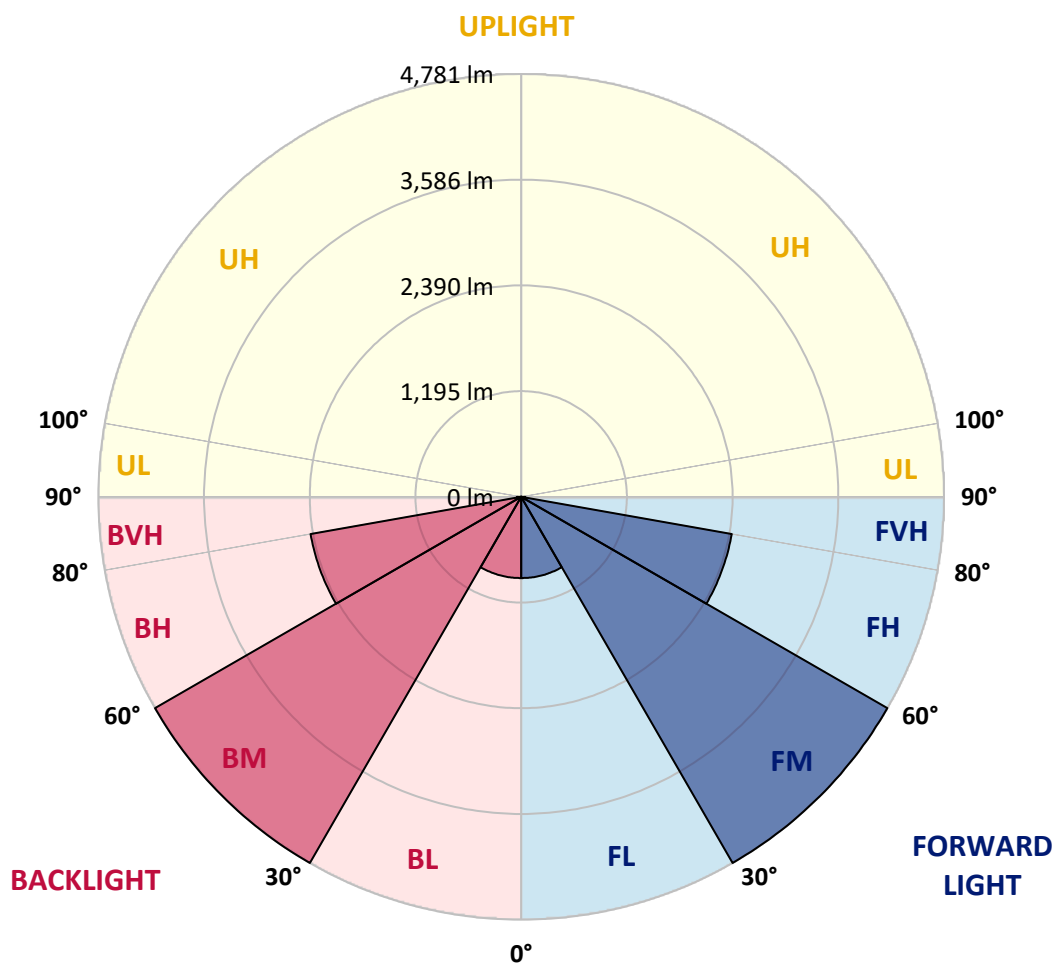
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	918.8	5.6			
FM	(30°-60°)	4781.0	29.3			
FH	(60°-80°)	2418.0	14.8			G2/5000
FVH	(80°-90°)	46.7	0.3			G1/100
BL	(0°-30°)	918.8	5.6	B2/1000		
BM	(30°-60°)	4781.0	29.3	B3/5000		
BH	(60°-80°)	2418.0	14.8	B3/2500		G2/5000
BVH	(80°-90°)	46.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1847.6	1847.6	1847.6	1847.6	1847.6	1847.6	1847.6	1847.6	1847.6	1847.6	1847.6
2.5°	1849.2	1850.7	1852.2	1850.7	1852.2	1849.9	1848.4	1850.7	1848.4	1846.1	1847.6
5°	1865.2	1866.0	1866.0	1863.7	1866.0	1864.5	1862.2	1865.2	1862.9	1860.6	1862.2
7.5°	1892.0	1895.0	1892.8	1890.5	1892.0	1890.5	1888.9	1889.7	1888.9	1886.6	1887.4
10°	1927.9	1930.2	1928.7	1927.9	1929.5	1928.7	1927.2	1926.4	1927.2	1924.9	1924.9
12.5°	1971.5	1970.8	1970.0	1970.8	1973.1	1973.1	1972.3	1973.1	1974.6	1975.3	1973.8
15°	2014.4	2015.9	2015.9	2015.9	2020.5	2024.3	2026.6	2028.1	2031.2	2031.9	2028.9
17.5°	2067.9	2067.9	2067.1	2067.9	2072.5	2078.6	2080.9	2083.9	2087.0	2089.3	2085.5
20°	2127.5	2129.1	2129.1	2130.6	2136.7	2143.6	2143.6	2145.1	2143.6	2145.1	2142.8
22.5°	2200.2	2204.8	2204.8	2205.5	2211.7	2220.1	2217.8	2220.1	2216.2	2219.3	2216.2
25°	2295.0	2301.9	2300.4	2300.4	2305.0	2310.3	2311.1	2315.7	2314.9	2318.7	2316.4
27.5°	2402.1	2412.8	2415.8	2415.1	2418.1	2423.5	2425.0	2430.4	2427.3	2430.4	2428.8
30°	2530.6	2535.1	2541.3	2543.6	2547.4	2552.7	2552.7	2553.5	2549.7	2554.3	2556.6
32.5°	2663.6	2672.0	2678.2	2691.9	2698.8	2702.6	2701.9	2703.4	2699.6	2705.7	2710.3
35°	2839.5	2845.6	2855.6	2866.3	2875.5	2874.7	2872.4	2873.2	2873.2	2878.5	2883.1
37.5°	3051.4	3052.9	3065.9	3081.2	3085.8	3081.2	3067.4	3064.4	3057.5	3064.4	3072.0
40°	3275.4	3280.8	3306.8	3316.7	3319.0	3310.6	3290.7	3279.2	3264.0	3272.4	3283.1
42.5°	3510.2	3520.9	3544.6	3562.2	3569.9	3564.5	3537.0	3519.4	3499.5	3504.1	3514.8
45°	3770.2	3783.2	3816.9	3833.7	3848.2	3839.8	3813.0	3786.3	3754.9	3757.2	3774.0
47.5°	4060.8	4073.8	4117.4	4145.7	4153.4	4151.8	4122.0	4085.3	4042.5	4040.9	4055.5
50°	4386.6	4399.6	4453.9	4497.5	4519.7	4517.4	4482.2	4430.2	4378.2	4379.0	4397.3
52.5°	4704.7	4720.8	4777.4	4852.3	4895.9	4927.3	4905.9	4856.9	4793.5	4795.0	4811.8
55°	5003.0	5029.8	5094.8	5196.5	5277.5	5365.5	5390.7	5389.2	5351.0	5361.7	5378.5
57.5°	5147.5	5187.3	5287.5	5448.1	5613.3	5792.2	5943.6	6056.8	6105.0	6177.6	6160.8
60°	4873.7	4937.2	5084.8	5321.1	5647.7	6020.9	6420.8	6811.6	7145.1	7396.7	7252.1
62.5°	3990.5	4073.1	4252.0	4554.8	5048.9	5646.1	6411.7	7335.5	8341.9	8949.1	8515.5
65°	2496.9	2582.6	2764.6	3088.8	3667.0	4409.5	5448.1	6979.1	8859.6	9775.0	8892.5
67.5°	973.5	1020.2	1118.8	1326.1	1760.5	2421.2	3463.6	5201.1	7450.2	8252.4	7311.8
70°	487.9	492.5	510.9	549.1	642.4	834.3	1269.5	2411.3	4272.7	5160.5	4118.9
72.5°	352.5	353.3	362.5	379.3	409.1	452.0	534.6	738.0	1389.6	2123.7	1302.4
75°	270.0	273.0	278.4	287.5	303.6	325.0	354.8	425.2	526.9	611.0	513.9
77.5°	208.0	214.1	218.0	226.4	236.3	250.8	259.3	286.0	332.7	350.3	344.9
80°	158.3	163.7	172.1	179.0	185.8	192.7	189.7	201.9	226.4	240.9	233.2
82.5°	100.9	107.1	131.5	137.7	140.7	145.3	139.9	140.7	151.4	160.6	151.4
85°	65.0	68.8	83.4	91.0	91.8	94.8	92.5	87.2	87.2	79.5	89.5
87.5°	29.8	30.6	37.5	44.4	45.9	41.3	40.5	39.0	31.4	29.8	32.1
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°	1847.6	1847.6	1847.6	1847.6	1847.6	1847.6	1847.6	1847.6
2.5°	1846.9	1848.4	1849.2	1851.5	1852.2	1852.2	1853.0	1854.5
5°	1861.4	1863.7	1864.5	1867.5	1868.3	1867.5	1869.0	1869.8
7.5°	1887.4	1891.2	1892.8	1895.8	1893.5	1896.6	1897.3	1897.3
10°	1925.6	1929.5	1930.2	1933.3	1931.8	1933.3	1933.3	1931.8
12.5°	1976.1	1976.9	1974.6	1976.9	1973.8	1975.3	1973.1	1971.5
15°	2031.9	2029.6	2024.3	2024.3	2019.7	2020.5	2019.7	2018.9
17.5°	2086.2	2081.6	2077.8	2076.3	2072.5	2071.7	2069.4	2069.4
20°	2145.9	2143.6	2141.3	2138.2	2134.4	2130.6	2129.8	2131.4
22.5°	2217.8	2217.0	2217.0	2215.5	2210.1	2206.3	2204.0	2204.0
25°	2314.1	2307.2	2307.2	2306.5	2304.2	2301.9	2297.3	2299.6
27.5°	2422.7	2418.9	2422.0	2421.2	2418.9	2418.9	2415.8	2415.8
30°	2556.6	2555.0	2559.6	2555.8	2548.1	2547.4	2544.3	2540.5
32.5°	2711.0	2709.5	2716.4	2711.8	2699.6	2692.7	2686.6	2683.5
35°	2883.1	2883.9	2892.3	2889.2	2875.5	2870.9	2860.2	2858.6
37.5°	3071.2	3083.5	3098.0	3101.1	3089.6	3086.5	3075.1	3068.9
40°	3292.2	3308.3	3330.5	3335.8	3323.6	3321.3	3305.2	3296.8
42.5°	3527.8	3555.3	3582.9	3587.4	3575.2	3563.0	3547.7	3541.6
45°	3790.9	3823.7	3859.7	3868.9	3850.5	3836.0	3816.1	3816.1
47.5°	4086.1	4127.4	4167.9	4193.1	4176.3	4161.0	4137.3	4122.0
50°	4434.8	4491.4	4544.1	4570.1	4543.4	4514.3	4473.0	4459.3
52.5°	4872.2	4933.4	4979.3	4965.5	4924.2	4883.7	4838.6	4820.2
55°	5430.5	5451.1	5451.1	5399.1	5316.5	5248.5	5177.4	5153.6
57.5°	6128.7	6049.2	5926.8	5771.6	5576.6	5406.8	5292.1	5237.8
60°	6949.3	6566.9	6134.8	5710.4	5361.7	5074.1	4903.6	4825.6
62.5°	7496.1	6495.8	5630.1	4948.7	4447.0	4100.6	3865.0	3773.3
65°	7005.9	5417.5	4258.1	3442.9	2896.1	2543.6	2310.3	2224.7
67.5°	5131.5	3394.7	2267.5	1625.1	1190.7	949.8	854.2	814.5
70°	2303.4	1195.3	732.6	572.0	493.3	452.7	435.1	429.0
72.5°	694.4	502.4	423.7	382.4	351.0	331.1	316.6	315.1
75°	419.1	348.7	309.7	285.3	265.4	249.3	241.7	239.4
77.5°	292.9	256.2	237.8	220.2	205.0	192.7	185.8	180.5
80°	205.7	188.1	179.7	169.8	159.8	148.4	138.4	133.8
82.5°	137.7	133.8	133.8	127.7	119.3	108.6	88.7	84.1
85°	88.7	87.9	89.5	87.2	81.1	69.6	57.4	54.3
87.5°	41.3	42.1	46.6	45.9	44.4	36.7	29.1	27.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)