

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: McGRAW-EDISON

Report Number: P192615

Luminaire Tested: **GLEON-AF-07-LED-E1-5WQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192615
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: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-5WQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28259.9 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 226
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: 25 FT

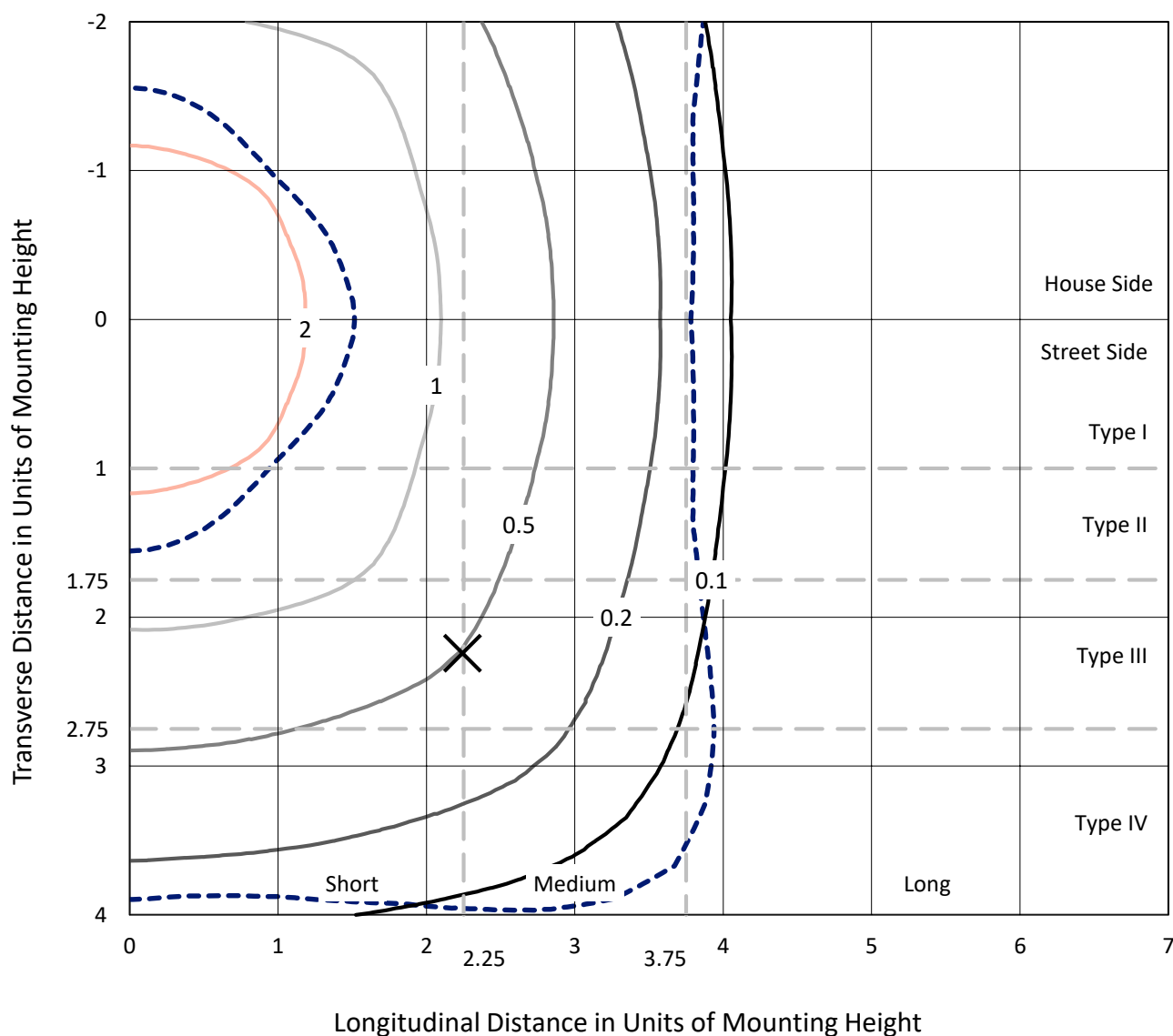


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

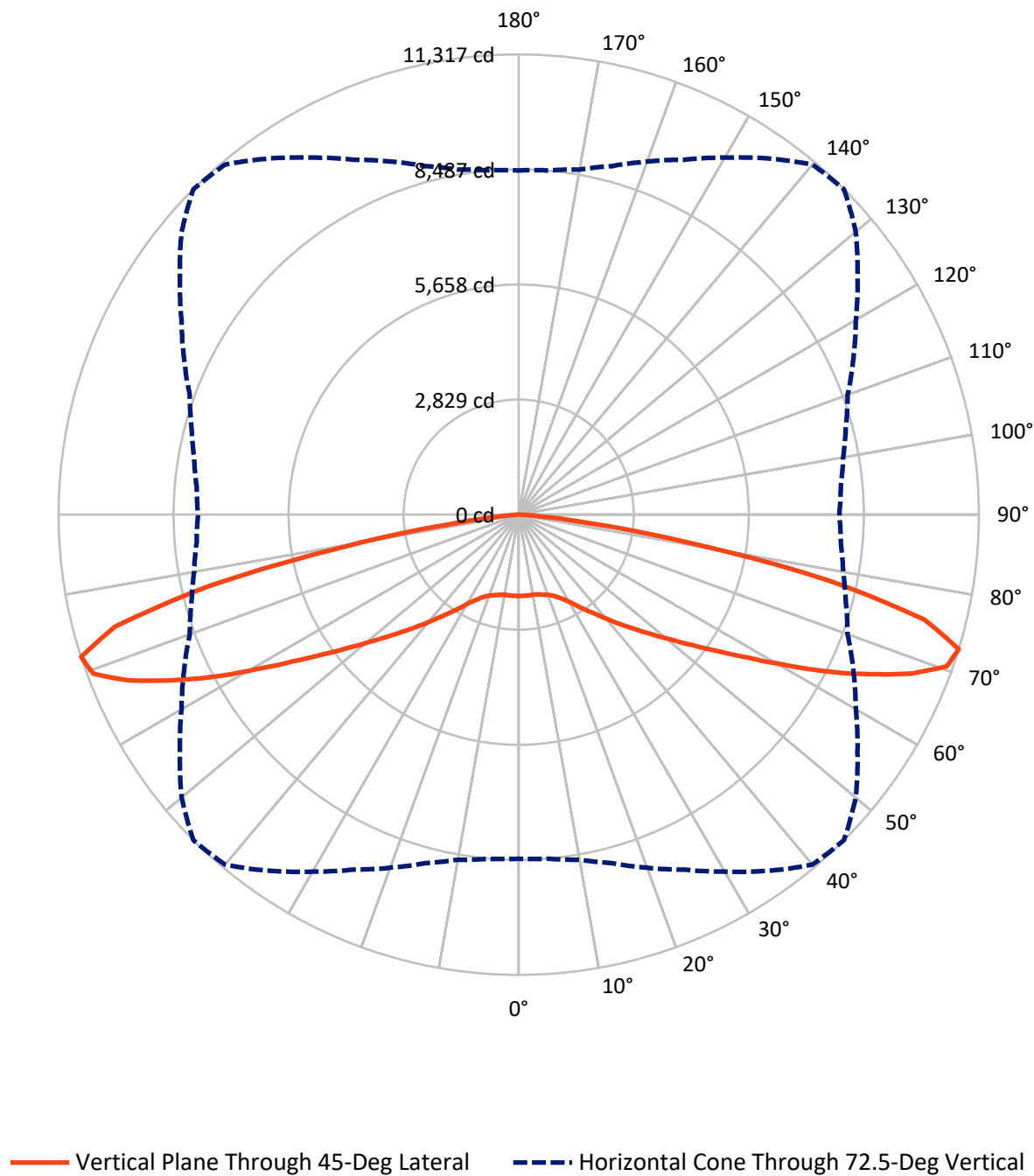


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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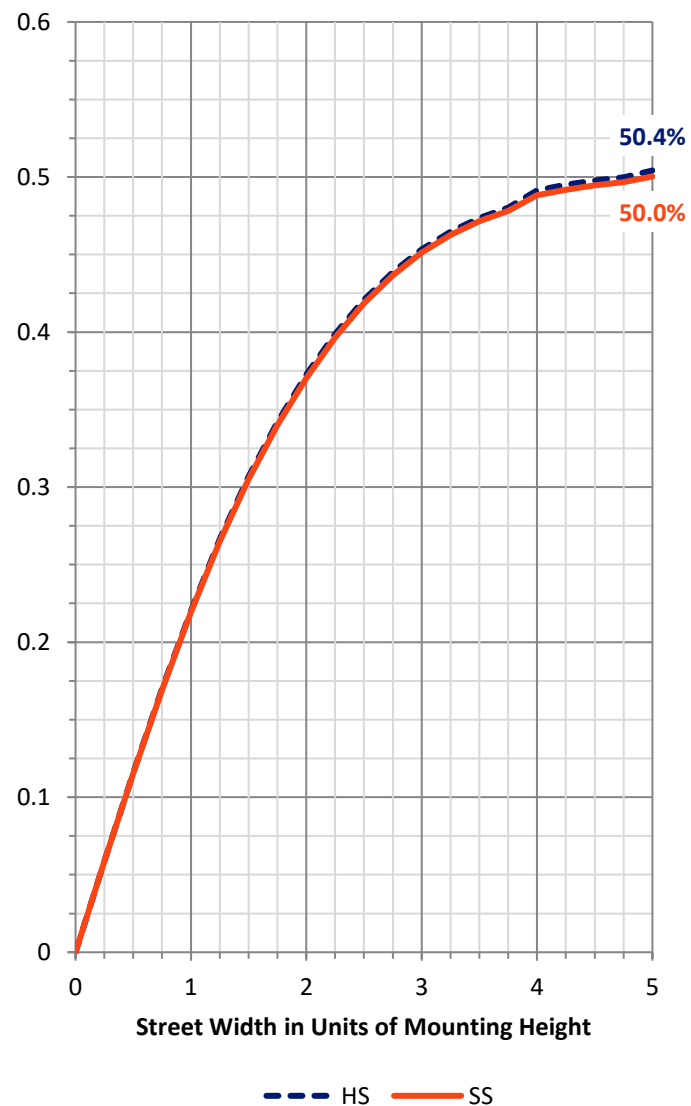
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14129.9	0.0	14129.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14129.9	0.0	14129.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	28259.9	0.0	28259.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	0.7
10°-20°	580.4	2.1
20°-30°	1060.6	3.8
30°-40°	1828.6	6.5
40°-50°	3126.0	11.1
50°-60°	5066.9	17.9
60°-70°	8405.8	29.7
70°-80°	7403.5	26.2
80°-90°	596.9	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°	28259.9	100.0
0°-180°	28259.9	100.0

Coefficient of Utilization



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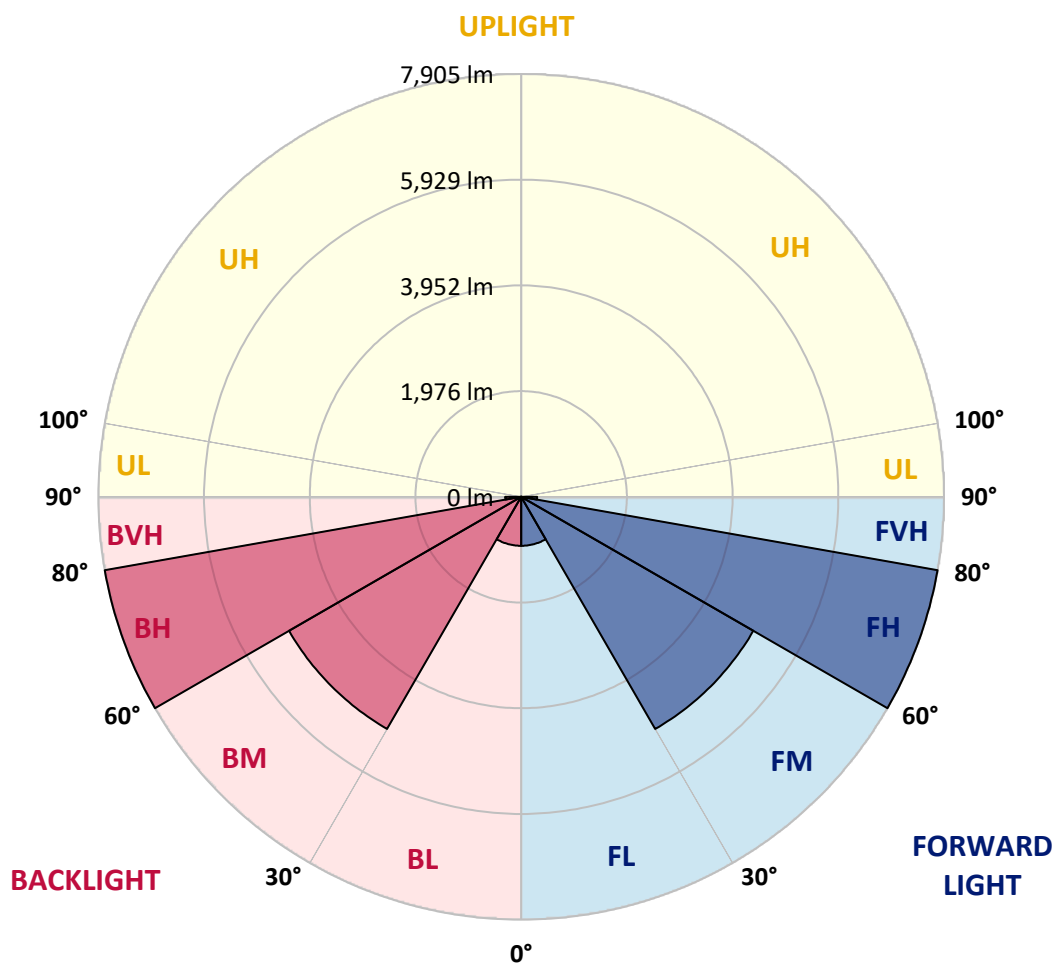
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	916.0	3.2			
FM	(30°-60°)	5010.8	17.7			
FH	(60°-80°)	7904.7	28.0			G4/12000
FVH	(80°-90°)	298.5	1.1			G3/500
BL	(0°-30°)	916.0	3.2	B2/1000		
BM	(30°-60°)	5010.8	17.7	B4/8500		
BH	(60°-80°)	7904.7	28.0	B5		G4/12000
BVH	(80°-90°)	298.5	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°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	2001.2	2002.5	2003.9	2002.5	2002.5	2001.2	2000.0	2001.2	2000.0	1997.4	1998.7
5°	2007.7	2010.3	2010.3	2007.7	2009.1	2007.7	2005.1	2006.4	2003.9	2000.0	2000.0
7.5°	2015.5	2016.8	2016.8	2014.2	2015.5	2012.9	2010.3	2009.1	2006.4	2001.2	1997.4
10°	2027.2	2028.5	2027.2	2024.6	2024.6	2020.6	2014.2	2011.6	2006.4	1998.7	1994.7
12.5°	2040.1	2041.4	2040.1	2037.5	2036.3	2029.7	2024.6	2020.6	2016.8	2010.3	2003.9
15°	2058.2	2060.8	2058.2	2053.1	2049.1	2044.0	2041.4	2042.7	2044.0	2038.8	2032.3
17.5°	2092.0	2093.3	2089.4	2077.7	2072.5	2067.3	2067.3	2069.9	2073.8	2071.2	2064.8
20°	2154.1	2150.3	2141.3	2127.0	2120.5	2111.4	2110.2	2111.4	2111.4	2110.2	2104.9
22.5°	2231.9	2229.3	2217.8	2199.5	2190.4	2185.3	2177.5	2171.0	2169.8	2165.8	2160.7
25°	2325.2	2324.0	2309.7	2294.1	2287.7	2281.3	2274.8	2265.6	2257.9	2248.8	2243.6
27.5°	2444.5	2439.3	2418.6	2410.8	2401.7	2397.9	2388.7	2378.5	2371.9	2360.2	2353.8
30°	2575.5	2575.5	2558.7	2556.0	2556.0	2547.0	2536.6	2518.4	2506.7	2495.1	2491.2
32.5°	2706.4	2707.7	2690.8	2696.0	2699.9	2706.4	2709.0	2702.4	2694.7	2693.3	2685.6
35°	2895.6	2890.4	2873.5	2877.5	2876.1	2874.8	2874.8	2889.2	2891.6	2894.3	2878.8
37.5°	3130.2	3130.2	3113.4	3113.4	3105.5	3097.8	3087.4	3096.5	3110.7	3114.7	3104.3
40°	3398.5	3407.6	3386.8	3385.5	3388.1	3363.4	3351.8	3366.1	3375.1	3390.8	3379.1
42.5°	3714.7	3708.3	3687.5	3684.9	3670.7	3662.9	3652.5	3664.2	3678.4	3688.8	3692.8
45°	4018.0	4012.9	3989.5	3989.5	3975.3	3968.8	3974.0	3993.4	3999.9	4014.1	4028.4
47.5°	4317.5	4311.0	4295.4	4301.9	4303.1	4314.8	4331.7	4349.8	4367.9	4387.5	4393.9
50°	4623.3	4624.6	4607.8	4623.3	4642.8	4675.2	4720.5	4750.4	4788.0	4812.6	4820.3
52.5°	4902.0	4907.2	4925.3	4961.6	5000.5	5064.0	5141.7	5214.4	5276.5	5318.0	5315.5
55°	5236.4	5244.2	5288.2	5350.4	5414.1	5510.0	5625.2	5753.6	5857.3	5916.8	5879.2
57.5°	5664.1	5680.9	5730.2	5814.4	5909.1	6033.6	6191.6	6384.8	6545.5	6625.9	6565.0
60°	6251.3	6261.6	6321.3	6414.6	6528.7	6683.0	6894.2	7153.4	7380.3	7486.6	7416.5
62.5°	7025.1	7044.5	7092.4	7187.1	7303.8	7478.7	7736.6	8060.7	8343.2	8491.0	8332.8
65°	7949.2	8011.4	8051.7	8147.6	8256.4	8441.8	8711.4	9058.6	9362.0	9459.2	9276.4
67.5°	8864.3	8918.8	8988.8	9098.9	9209.0	9417.7	9668.0	10004.9	10338.0	10426.2	10142.3
70°	9264.8	9295.9	9404.8	9555.2	9766.4	10012.7	10301.7	10680.2	11092.3	11164.9	10804.6
72.5°	8462.4	8493.6	8615.4	8870.8	9238.9	9630.3	10134.6	10690.6	11234.9	11316.6	10820.2
75°	6400.3	6349.8	6530.0	6868.2	7364.6	7910.4	8615.4	9412.5	10199.4	10301.7	9709.5
77.5°	3307.8	3301.3	3437.4	3857.3	4449.7	5070.5	5846.9	6747.8	7517.6	7828.7	7346.5
80°	931.9	942.3	1007.2	1215.7	1561.9	2010.3	2616.9	3460.7	4090.6	4412.1	4142.4
82.5°	365.5	394.0	418.7	457.6	502.9	569.0	759.6	1130.3	1516.5	1811.9	1484.1
85°	130.9	140.0	198.3	234.6	238.5	251.4	286.5	334.5	403.0	480.8	395.3
87.5°	49.2	54.4	63.5	105.0	103.7	94.6	115.4	120.5	90.6	82.9	102.3
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°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	1996.0	1997.4	1997.4	1998.7	2000.0	2000.0	2002.5	2002.5
5°	1997.4	1997.4	1994.7	1996.0	1994.7	1994.7	1996.0	1996.0
7.5°	1994.7	1993.4	1990.9	1989.6	1987.0	1987.0	1987.0	1987.0
10°	1990.9	1989.6	1987.0	1985.7	1984.3	1984.3	1984.3	1984.3
12.5°	2001.2	1997.4	1994.7	1993.4	1993.4	1993.4	1993.4	1993.4
15°	2028.5	2019.4	2012.9	2012.9	2014.2	2016.8	2016.8	2019.4
17.5°	2062.2	2051.8	2045.4	2040.1	2042.7	2046.7	2049.1	2051.8
20°	2102.3	2097.1	2088.1	2082.9	2082.9	2088.1	2090.6	2092.0
22.5°	2158.1	2154.1	2150.3	2143.7	2143.7	2146.4	2151.7	2151.7
25°	2241.0	2238.4	2235.9	2230.6	2229.3	2229.3	2231.9	2234.6
27.5°	2344.7	2346.1	2343.4	2342.1	2338.2	2336.9	2340.9	2339.6
30°	2483.4	2489.9	2496.3	2491.2	2484.7	2480.8	2476.9	2471.8
32.5°	2671.4	2663.5	2658.4	2649.3	2637.6	2627.2	2619.5	2610.4
35°	2848.9	2836.0	2830.8	2838.5	2837.3	2830.8	2821.7	2814.0
37.5°	3066.7	3064.0	3066.7	3080.9	3078.4	3084.8	3066.7	3065.4
40°	3341.4	3344.0	3362.2	3379.1	3388.1	3397.2	3386.8	3376.4
42.5°	3660.3	3659.0	3665.5	3688.8	3704.3	3714.7	3692.8	3690.1
45°	3997.2	3988.2	3993.4	4012.9	4028.4	4040.1	4015.5	4015.5
47.5°	4367.9	4352.5	4335.6	4357.6	4366.6	4374.5	4355.1	4348.5
50°	4781.5	4749.1	4712.8	4721.8	4721.8	4719.2	4694.7	4693.3
52.5°	5255.8	5196.3	5130.2	5105.4	5091.3	5075.6	5032.9	5012.2
55°	5801.5	5712.1	5608.4	5544.9	5511.1	5468.4	5397.1	5377.6
57.5°	6439.2	6299.3	6120.3	6042.6	5967.4	5897.5	5818.4	5796.3
60°	7194.8	6988.8	6751.5	6607.7	6526.0	6458.7	6377.0	6373.1
62.5°	8037.3	7712.1	7443.8	7314.2	7254.5	7194.8	7117.1	7127.5
65°	8894.1	8554.6	8303.0	8198.0	8142.3	8093.1	8015.4	8026.9
67.5°	9739.2	9426.8	9150.8	9043.2	8981.0	8918.8	8848.8	8860.4
70°	10345.8	9958.2	9647.1	9408.7	9259.6	9091.1	8982.2	8955.0
72.5°	10172.1	9574.6	9080.7	8607.7	8330.3	8104.8	7951.8	7885.7
75°	8803.3	7986.9	7351.7	6771.1	6444.4	6178.7	5985.6	5865.0
77.5°	6537.7	5620.1	4869.5	4200.8	3671.9	3316.8	3066.7	2904.6
80°	3578.7	2721.8	1989.6	1398.5	1027.8	854.2	754.3	706.4
82.5°	1114.7	719.4	530.1	457.6	425.1	407.0	377.2	329.2
85°	355.1	311.1	289.0	276.1	263.1	229.5	158.1	143.9
87.5°	137.3	141.3	140.0	132.2	134.8	97.2	77.8	68.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)