Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P299592

Luminaire Tested: **GAA-AF-03-LED-U-5MQ-7060**

Issue Date: 3/3/2020

Report Generated By E9812814

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P299592
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	GAA-AF-03-LED-U-5MQ-7060
Description:	GALLEONAIRE AREA AND ROADWAY LUMINAIRE
	(3) 70 CRI, 5700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III w/Spill Control OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	19025 lumens
Efficiency:	N/A
Efficacy:	114.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type V - Short - Full Cutoff
BUG Rating:	B4 - U0 - G2

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:	28.75 FT

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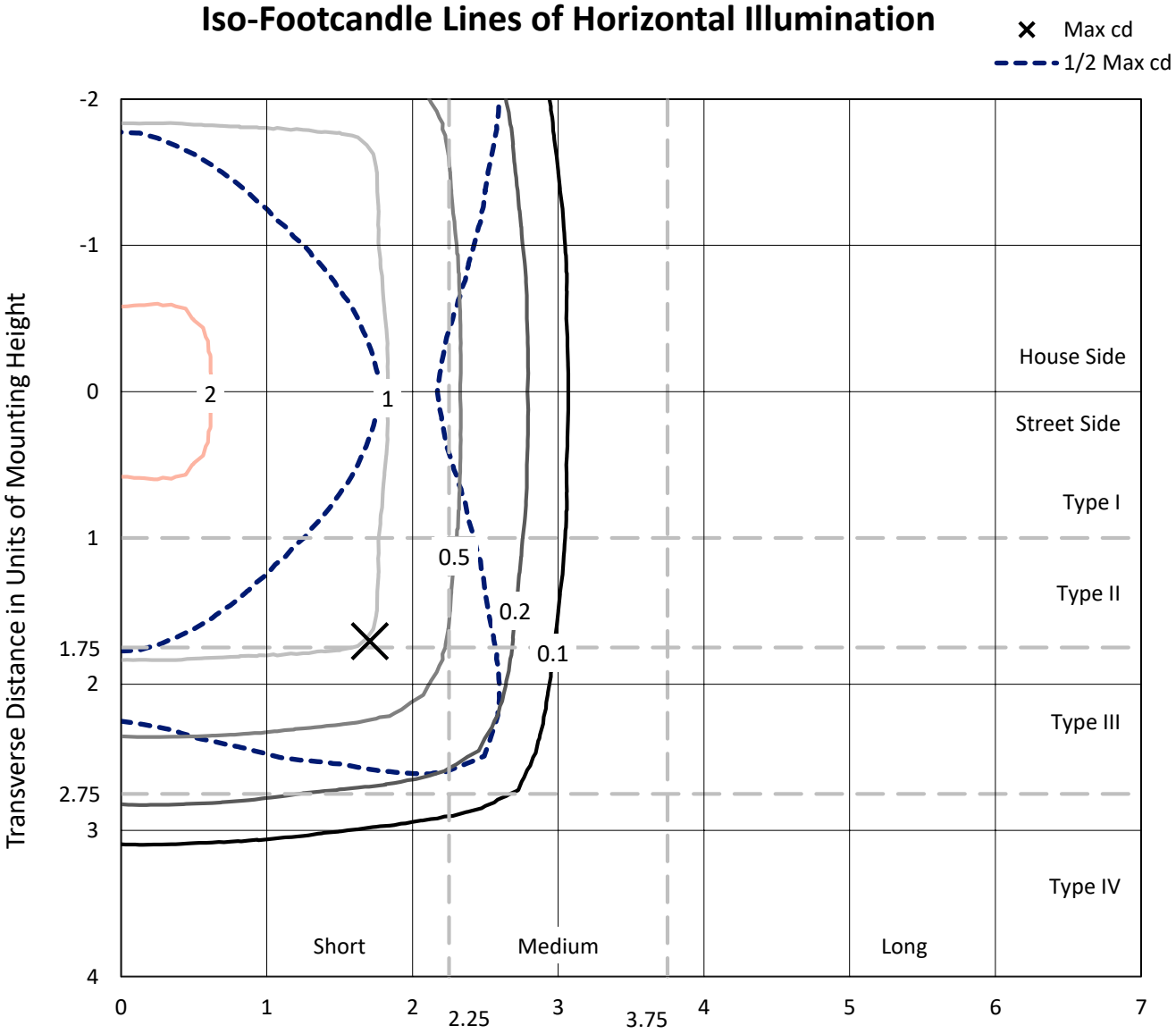
Iso-Footcandle Lines of Horizontal Illumination



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

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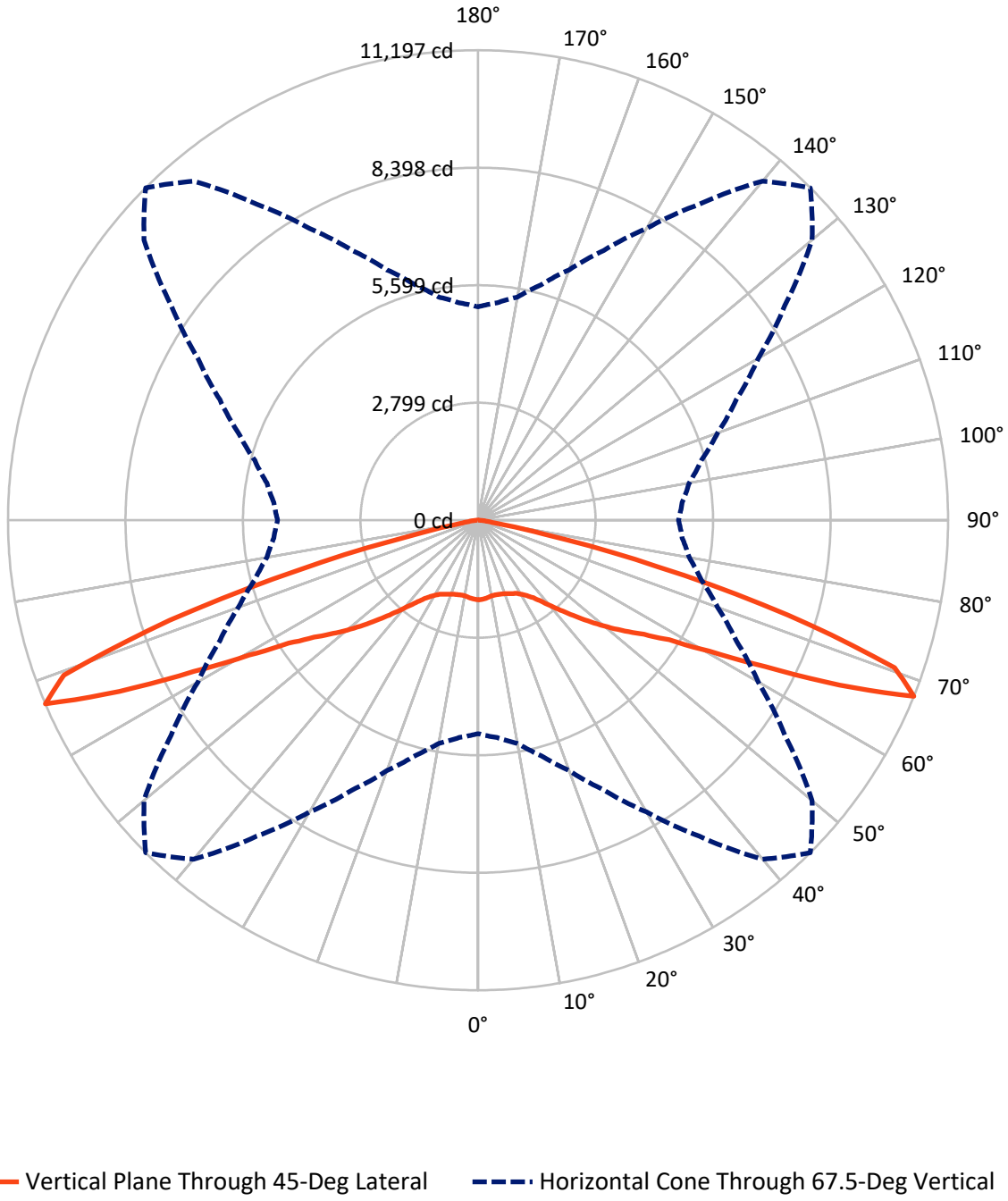
Luminous Intensity Polar Plot



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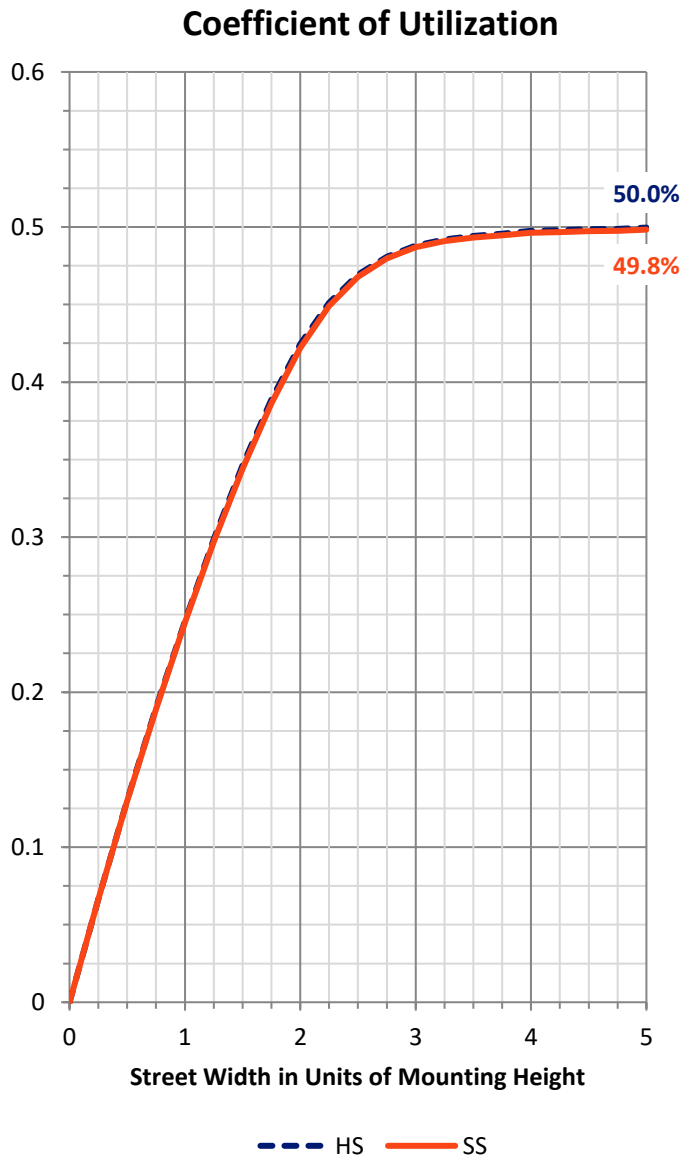
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9512.5	0.0	9512.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9512.5	0.0	9512.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19025.0	0.0	19025.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	0.9
10°-20°	514.9	2.7
20°-30°	875.4	4.6
30°-40°	1430.9	7.5
40°-50°	2554.5	13.4
50°-60°	4307.0	22.6
60°-70°	6683.8	35.1
70°-80°	2348.4	12.3
80°-90°	132.7	0.7
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°	19025.0	100.0
0°-180°	19025.0	100.0



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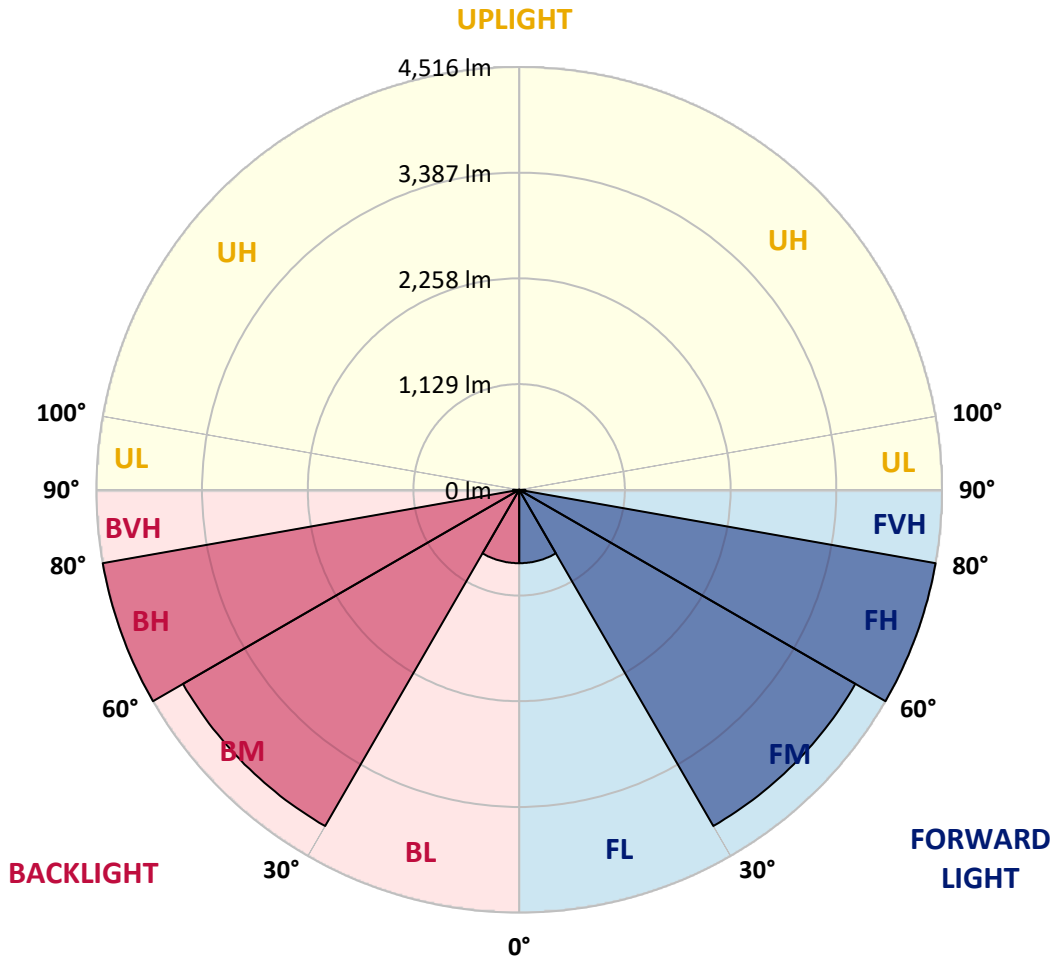
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	783.9	4.1			
FM	(30°-60°)	4146.2	21.8			
FH	(60°-80°)	4516.1	23.7			G2/5000
FVH	(80°-90°)	66.4	0.3			G1/100
BL	(0°-30°)	783.9	4.1	B2/1000		
BM	(30°-60°)	4146.2	21.8	B3/5000		
BH	(60°-80°)	4516.1	23.7	B4/5000		G2/5000
BVH	(80°-90°)	66.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	*1895.9*	1895.9
2.5°	1888.9	1890.7	1890.7	1890.7	1889.8	1889.8	1888.0	1889.8	1888.9	*1886.3*	1887.2
5°	1873.2	1874.9	1874.9	1874.0	1876.7	1875.8	1873.2	1874.9	1874.0	*1872.3*	1873.2
7.5°	1850.4	1853.1	1853.1	1852.2	1854.8	1853.9	1852.2	1853.1	1853.1	*1850.4*	1850.4
10°	1825.1	1826.8	1826.8	1825.9	1830.3	1830.3	1829.4	1832.1	1832.9	*1830.3*	1828.6
12.5°	1801.4	1804.1	1804.1	1807.6	1811.9	1813.7	1818.1	1821.6	1825.1	*1824.2*	1820.7
15°	1787.4	1789.2	1792.7	1797.1	1804.1	1810.2	1817.2	1825.1	1832.1	*1833.8*	1828.6
17.5°	1778.7	1781.3	1786.6	1792.7	1802.3	1812.8	1823.3	1833.8	1843.4	*1846.9*	1840.8
20°	1776.1	1777.8	1783.1	1793.6	1806.7	1822.4	1837.3	1849.6	1862.7	*1867.1*	1862.7
22.5°	1781.3	1784.8	1790.9	1803.2	1820.7	1840.8	1858.3	1874.9	1891.5	*1899.4*	1893.3
25°	1804.9	1808.4	1816.3	1832.1	1851.3	1872.3	1892.4	1911.7	1926.5	*1934.4*	1930.0
27.5°	1848.7	1853.1	1862.7	1878.4	1899.4	1922.2	1944.0	1959.8	1972.0	*1974.7*	1969.4
30°	1914.3	1923.9	1935.3	1952.8	1977.3	1996.5	2018.4	2032.4	2047.3	*2047.3*	2042.9
32.5°	2016.7	2026.3	2038.5	2055.2	2074.4	2095.4	2114.6	2126.9	2142.6	*2143.5*	2133.0
35°	2169.8	2174.1	2184.6	2195.1	2212.6	2231.0	2247.6	2255.5	2268.6	*2269.5*	2259.9
37.5°	2371.9	2372.7	2379.7	2383.2	2399.0	2419.1	2434.9	2440.1	2452.4	*2450.6*	2441.0
40°	2607.2	2611.6	2614.2	2619.5	2636.1	2655.3	2672.0	2674.6	2687.7	*2685.1*	2672.8
42.5°	2879.3	2881.1	2895.9	2903.8	2919.6	2929.2	2950.2	2952.8	2968.6	*2961.6*	2947.6
45°	3184.7	3200.4	3214.4	3230.2	3246.8	3258.2	3274.8	3271.3	3281.8	*3271.3*	3263.4
47.5°	3505.7	3517.1	3548.6	3573.1	3600.2	3609.9	3633.5	3623.0	3633.5	*3618.6*	3616.0
50°	3859.2	3879.3	3906.5	3934.5	3963.3	3979.1	4009.7	3996.6	4010.6	*3996.6*	3988.7
52.5°	4207.4	4212.7	4272.2	4313.3	4353.5	4371.9	4390.3	4384.2	4385.0	*4384.2*	4376.3
55°	4538.1	4550.4	4609.9	4665.9	4735.9	4787.5	4819.0	4815.5	4807.6	*4799.7*	4786.6
57.5°	4910.8	4923.1	4991.3	5060.5	5140.1	5213.6	5277.4	5343.1	5368.4	*5375.4*	5346.6
60°	5414.8	5413.9	5504.9	5588.9	5702.6	5812.0	5952.0	6094.6	6258.2	*6334.3*	6233.7
62.5°	5927.5	5948.5	6079.7	6228.5	6462.9	6691.3	6949.4	7203.1	7462.1	*7672.9*	7449.0
65°	5866.2	5946.7	6141.8	6478.7	6911.8	7426.2	7982.6	8571.5	9103.4	*9469.1*	9058.8
67.5°	*5084.1*	*5198.7*	*5397.3*	*5806.8*	*6348.3*	*7090.2*	*8024.6*	*9189.1*	*10542.6*	*11197.1*	*10386.0*
70°	3685.1	3814.6	4022.8	4422.7	4959.0	5664.1	6679.0	8077.1	9868.9	*10528.6*	9635.3
72.5°	1833.8	1903.8	2032.4	2287.0	2693.0	3265.2	4185.6	5529.4	7114.7	*7720.2*	6903.9
75°	622.9	655.3	677.2	760.3	888.9	1113.8	1571.3	2417.4	3687.7	*4420.9*	3635.2
77.5°	359.6	360.5	375.3	390.2	412.1	436.6	497.8	653.6	1130.4	*1605.5*	1169.7
80°	232.7	231.9	244.1	255.5	270.3	282.6	286.1	302.7	349.1	*413.8*	370.1
82.5°	120.7	135.6	162.7	177.6	205.6	210.9	203.9	197.7	209.1	*217.0*	222.2
85°	66.5	57.7	86.6	112.0	124.2	126.0	126.0	119.0	123.4	*120.7*	131.2
87.5°	30.6	28.0	34.1	55.1	58.6	49.9	52.5	46.4	33.2	*32.4*	36.7
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°	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9	1895.9
2.5°	1887.2	1888.0	1888.0	1890.7	1891.5	1893.3	1895.0	1895.9
5°	1872.3	1874.9	1873.2	1875.8	1875.8	1877.5	1877.5	1878.4
7.5°	1850.4	1853.1	1853.1	1853.1	1852.2	1854.8	1854.8	1854.8
10°	1827.7	1829.4	1828.6	1826.8	1825.1	1827.7	1826.8	1825.9
12.5°	1820.7	1816.3	1812.8	1811.1	1807.6	1808.4	1805.8	1805.8
15°	1825.1	1817.2	1811.1	1808.4	1804.9	1803.2	1801.4	1802.3
17.5°	1836.4	1826.8	1818.9	1814.6	1810.2	1807.6	1804.1	1804.9
20°	1856.6	1845.2	1833.8	1825.1	1817.2	1812.8	1810.2	1809.3
22.5°	1886.3	1869.7	1853.1	1839.9	1829.4	1823.3	1820.7	1818.9
25°	1920.4	1902.0	1882.8	1867.9	1857.4	1849.6	1844.3	1844.3
27.5°	1963.3	1948.4	1930.9	1913.4	1903.8	1895.9	1892.4	1890.7
30°	2035.0	2021.0	2007.0	1990.4	1978.2	1970.3	1964.2	1958.9
32.5°	2126.9	2115.5	2104.1	2091.9	2080.5	2070.0	2060.4	2056.0
35°	2256.4	2247.6	2239.8	2225.8	2221.4	2215.3	2210.0	2205.6
37.5°	2434.9	2431.4	2431.4	2416.5	2413.0	2410.4	2405.1	2406.0
40°	2669.3	2672.8	2668.5	2663.2	2660.6	2653.6	2653.6	2659.7
42.5°	2946.7	2949.3	2958.9	2950.2	2959.8	2951.1	2945.8	2950.2
45°	3268.7	3278.3	3297.5	3288.8	3294.9	3280.0	3261.7	3262.5
47.5°	3630.0	3638.7	3646.6	3640.5	3641.4	3616.9	3592.4	3586.2
50°	4005.3	4008.8	4013.2	4004.4	4006.2	3979.1	3951.1	3952.0
52.5°	4376.3	4392.9	4410.4	4386.8	4381.5	4350.9	4311.5	4295.8
55°	4800.6	4824.2	4804.1	4763.0	4721.9	4680.7	4629.1	4620.4
57.5°	5323.8	5283.6	5220.6	5142.7	5085.8	5028.1	4975.6	4953.7
60°	6051.7	5900.4	5786.6	5671.1	5598.5	5527.7	5458.5	5448.0
62.5°	7080.6	6819.0	6592.4	6353.6	6158.5	6006.2	5884.6	5850.5
65°	8370.2	7751.7	7215.4	6714.9	6280.1	5952.0	5745.5	5654.5
67.5°	*8924.9*	*7703.6*	*6784.0*	*6073.6*	*5504.9*	*5107.7*	*4884.6*	*4773.5*
70°	7842.7	6388.6	5388.5	4677.2	4159.3	3735.9	3533.7	3414.8
72.5°	5395.5	4063.9	3213.5	2623.0	2209.1	1854.8	1714.8	1704.3
75°	2422.6	1604.6	1105.9	852.2	717.4	623.8	594.9	573.1
77.5°	678.1	501.3	447.1	418.2	390.2	357.8	345.6	348.2
80°	329.8	311.5	299.2	280.8	255.5	228.4	216.1	221.4
82.5°	218.7	216.1	224.0	210.9	174.1	147.9	124.2	113.7
85°	133.0	134.7	137.4	138.2	117.2	82.2	56.0	63.0
87.5°	52.5	60.4	65.6	68.2	63.9	39.4	31.5	32.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)