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

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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: P842559

Luminaire Tested: **ARCH4-60-750-U-T2R**

Issue Date: 5/27/2024

Report Generated By 670246001

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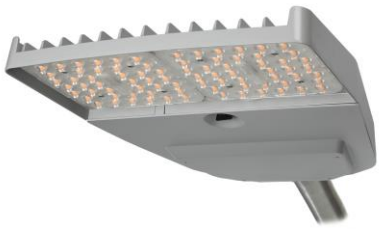
Test Information

Test Method:	LM-79-08
Report Number:	P842559
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab:	INNOVATION CENTER
Issue Date:	5/27/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	ARCH4-60-750-U-T2R
Description:	ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
	(2) 70 CRI, 5000K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11670 lumens
Efficiency:	N/A
Efficacy:	185.2 lumens/watt
Luminous Opening:	Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B2 - U0 - G2

Input Watts (W):	63
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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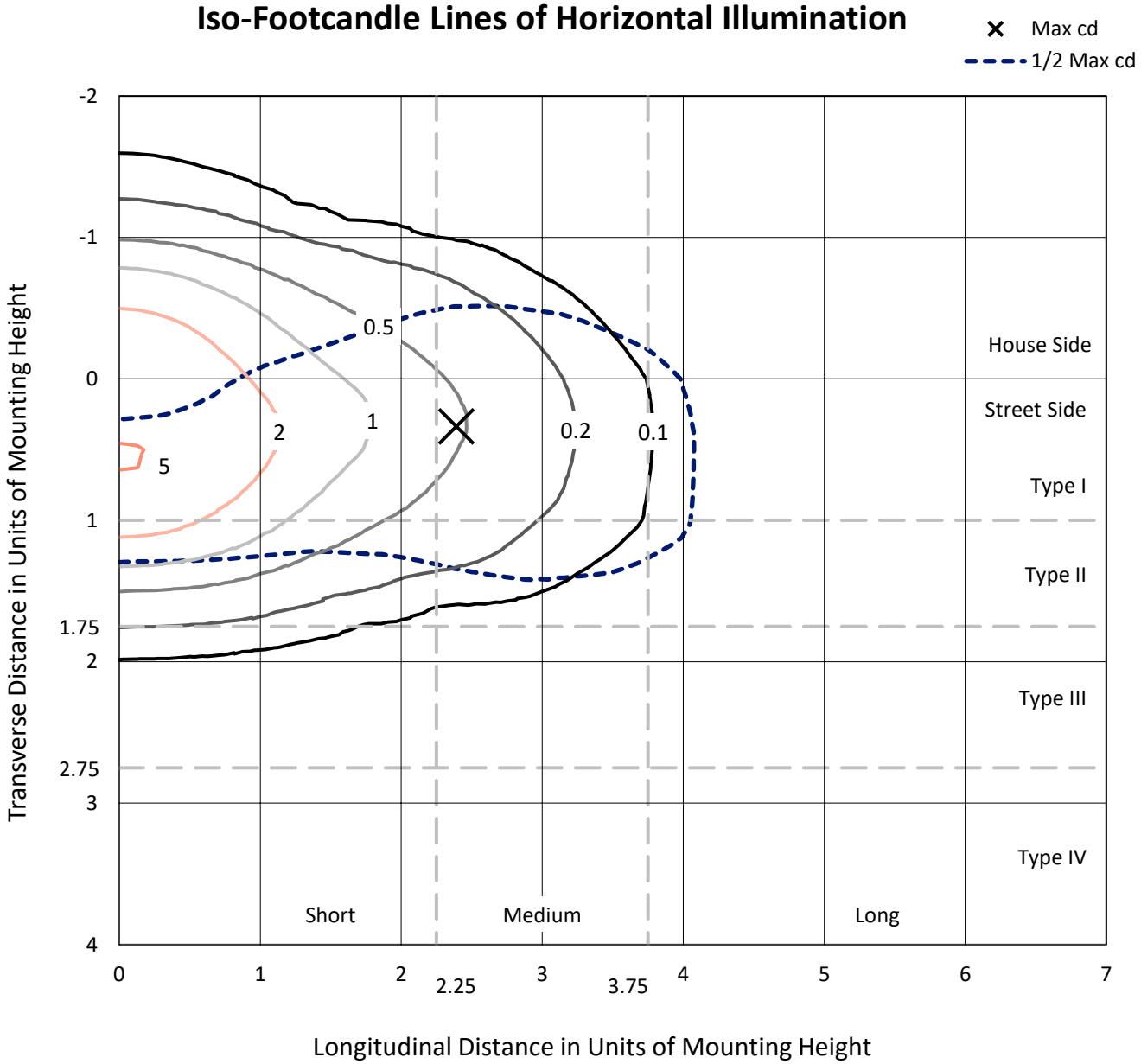
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type II - Medium - N/A

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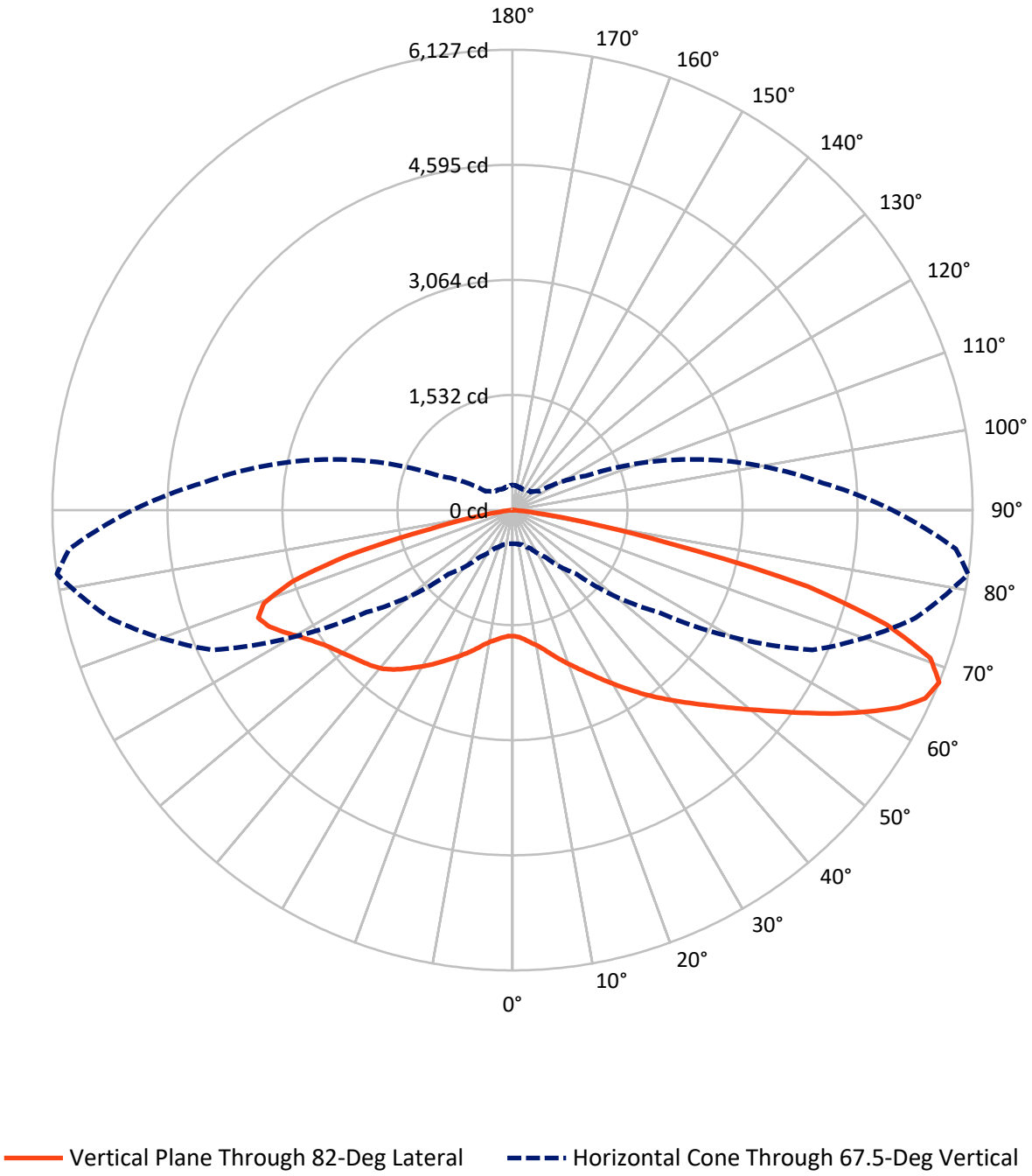
Luminous Intensity Polar Plot



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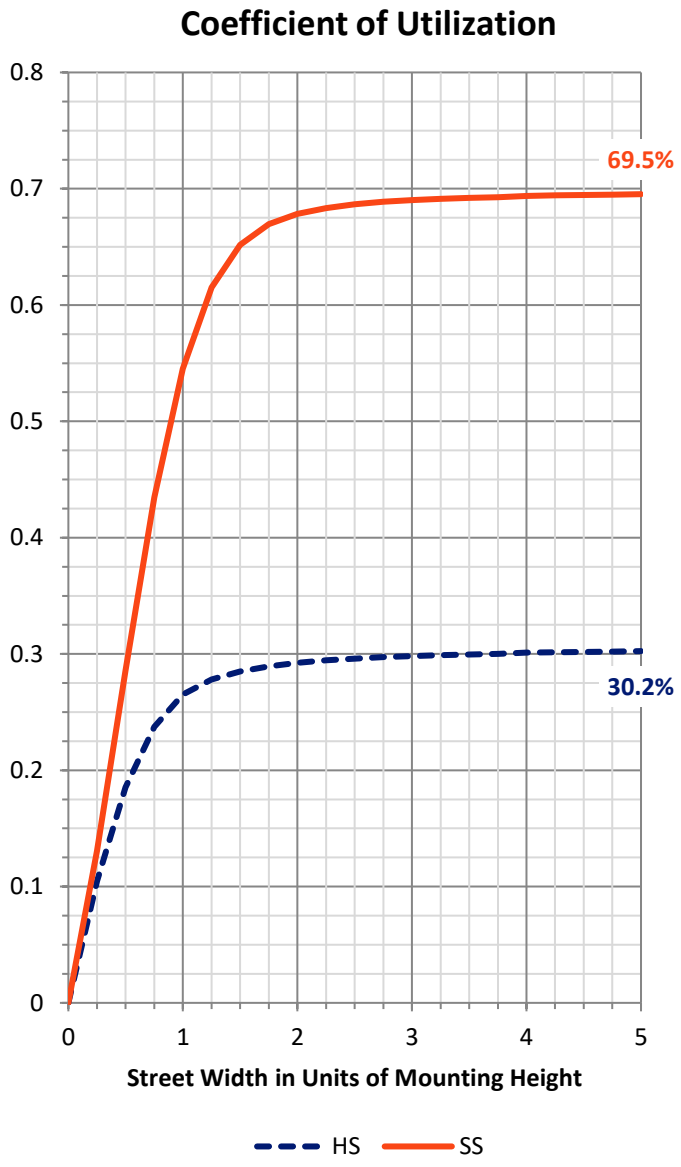
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3554.0	0.0	3554.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8116.0	0.0	8116.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	11670.0	0.0	11670.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.4	1.5
10°-20°	624.5	5.4
20°-30°	1255.1	10.8
30°-40°	1971.5	16.9
40°-50°	2401.7	20.6
50°-60°	2269.3	19.4
60°-70°	1873.9	16.1
70°-80°	1020.4	8.7
80°-90°	80.2	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°	11670.0	100.0
0°-180°	11670.0	100.0



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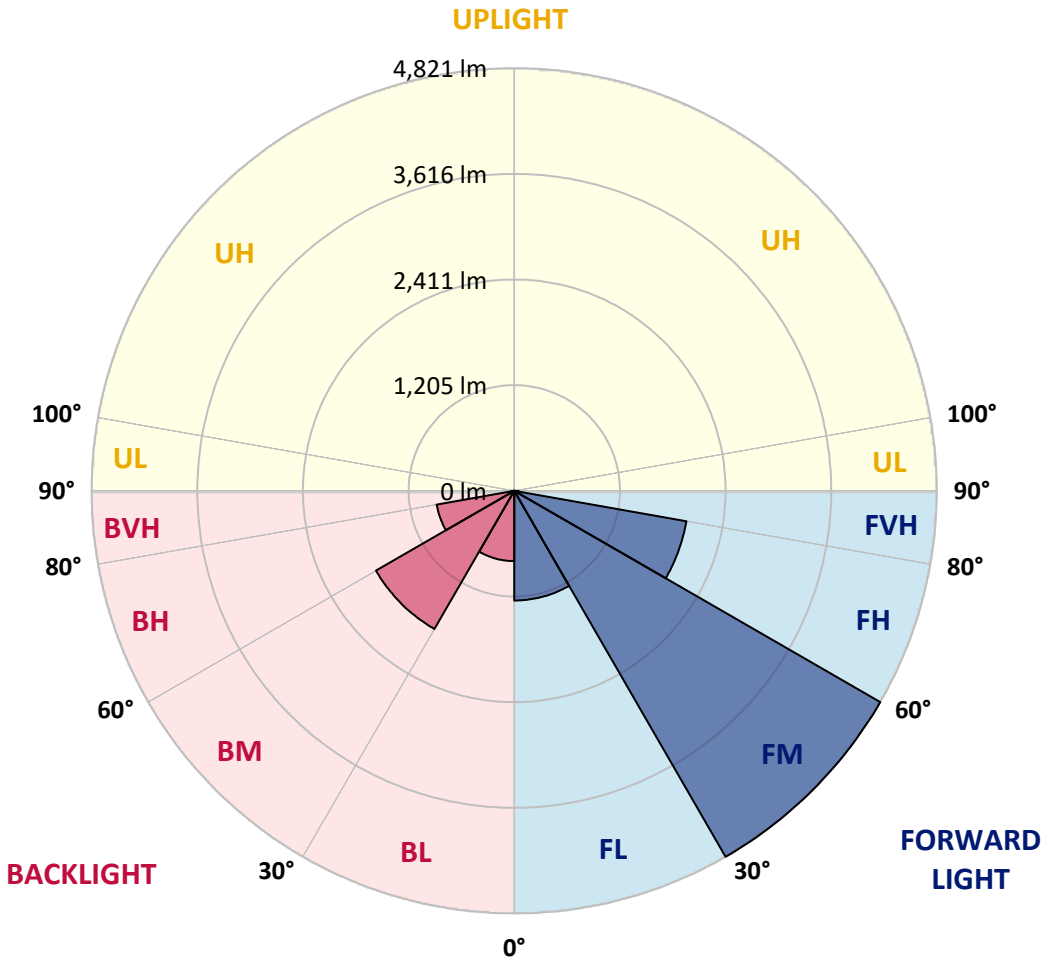
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1251.5	10.7			
FM	(30°-60°)	4821.4	41.3			
FH	(60°-80°)	1994.8	17.1			G2/5000
FVH	(80°-90°)	48.4	0.4			G1/100
BL	(0°-30°)	801.5	6.9	B2/1000		
BM	(30°-60°)	1821.1	15.6	B2/2500		
BH	(60°-80°)	899.5	7.7	B2/1000		G2/1000
BVH	(80°-90°)	31.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1677.6	1677.6	1677.6	1677.6	1677.6	1677.6	1677.6	1677.6	1677.6	*1677.6*	1677.6
2.5°	1753.8	1753.8	1767.4	1767.4	1755.5	1736.9	1731.8	1711.4	1692.8	*1692.8*	1694.5
5°	1921.6	1919.9	1930.0	1916.5	1887.7	1850.4	1825.0	1780.9	1743.6	*1731.8*	1730.1
7.5°	2126.6	2124.9	2130.0	2108.0	2053.7	1992.7	1941.9	1870.7	1809.7	*1784.3*	1777.5
10°	2355.4	2353.7	2348.6	2311.3	2238.4	2143.5	2067.3	1969.0	1877.5	*1836.8*	1828.4
12.5°	2618.0	2614.6	2602.8	2548.5	2448.6	2326.6	2216.4	2089.3	1967.3	*1911.4*	1892.8
15°	2911.2	2906.1	2884.0	2818.0	2684.1	2529.9	2387.6	2224.9	2075.8	*2002.9*	1977.5
17.5°	3219.6	3219.6	3185.7	3087.4	2938.3	2746.8	2570.6	2363.8	2189.3	*2099.5*	2069.0
20°	3533.0	3531.3	3489.0	3370.4	3194.1	2973.9	2750.2	2523.1	2306.2	*2197.8*	2160.5
22.5°	3863.5	3860.1	3807.5	3672.0	3461.9	3212.8	2951.8	2680.7	2435.0	*2304.5*	2257.1
25°	4243.0	4237.9	4173.6	4007.5	3758.4	3477.1	3178.9	2865.4	2582.4	*2423.1*	2367.2
27.5°	4646.3	4639.5	4563.3	4370.1	4097.3	3758.4	3429.7	3078.9	2745.1	*2555.3*	2492.6
30°	5005.6	5000.5	4917.4	4719.2	4405.7	4038.0	3668.6	3292.4	2916.2	*2696.0*	2618.0
32.5°	5276.7	5276.7	5202.1	5007.3	4681.9	4305.7	3909.2	3494.1	3094.2	*2846.8*	2755.3
35°	5441.0	5446.1	5381.7	5225.8	4919.1	4558.2	4158.3	3731.3	3283.9	*3007.7*	2909.5
37.5°	5464.8	5481.7	5444.4	5339.4	5083.5	4768.3	4402.3	3960.0	3480.5	*3170.4*	3060.3
40°	5354.6	5366.5	5368.2	5327.5	5151.3	4919.1	4617.5	4202.4	3688.9	*3341.6*	3214.5
42.5°	5134.3	5142.8	5158.1	5169.9	5102.1	4985.2	4781.9	4427.7	3910.9	*3516.1*	3367.0
45°	4849.7	4848.0	4873.4	4924.2	4920.8	4947.9	4873.4	4632.8	4141.4	*3714.3*	3536.4
47.5°	4424.3	4415.9	4505.7	4620.9	4678.5	4805.6	4875.1	4793.7	4392.1	*3932.9*	3729.6
50°	3758.4	3749.9	3946.5	4217.6	4387.1	4580.2	4781.9	4890.3	4654.8	*4178.6*	3939.7
52.5°	2948.4	2940.0	3189.1	3663.5	4032.9	4314.2	4593.8	4912.4	4903.9	*4453.1*	4176.9
55°	2192.7	2185.9	2428.2	2941.7	3539.8	4005.8	4363.3	4854.7	5137.7	*4768.3*	4465.0
57.5°	1545.4	1542.0	1752.1	2177.4	2906.1	3629.6	4141.4	4742.9	5352.9	*5110.6*	4790.4
60°	1084.5	1079.4	1231.9	1560.6	2197.8	3062.0	3921.1	4593.8	5513.9	*5447.8*	5136.0
62.5°	730.3	726.9	835.4	1109.9	1560.6	2357.1	3587.3	4493.8	5605.4	*5786.7*	5485.1
65°	554.1	552.4	601.5	752.4	1104.8	1692.8	3056.9	4482.0	5617.3	*6040.9*	5781.6
67.5°	*447.3*	*449.0*	*476.2*	*562.6*	*764.2*	*1203.1*	*2370.6*	*4407.4*	*5554.6*	*6127.3*	*5925.7*
70°	366.0	366.0	377.9	435.5	564.3	811.7	1655.5	4068.5	5380.0	*5901.9*	5754.5
72.5°	279.6	281.3	318.6	352.5	425.3	569.4	1060.8	3367.0	4968.3	*5203.8*	5092.0
75°	222.0	220.3	242.3	289.8	330.4	406.7	650.7	2414.7	4227.8	*4066.8*	3995.6
77.5°	159.3	157.6	174.5	215.2	250.8	288.1	388.0	1218.3	2299.4	*2113.0*	2060.5
80°	108.4	105.1	120.3	149.1	166.1	169.5	189.8	467.7	1003.1	*945.5*	933.7
82.5°	55.9	55.9	64.4	84.7	86.4	88.1	84.7	150.8	332.1	*310.1*	296.5
85°	22.0	22.0	23.7	28.8	28.8	30.5	30.5	39.0	35.6	*33.9*	32.2
87.5°	1.7	1.7	3.4	3.4	5.1	5.1	5.1	6.8	8.5	*8.5*	8.5
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°	1677.6	1677.6	1677.6	1677.6	1677.6	1677.6	1677.6	1677.6	1677.6	1677.6	1677.6
2.5°	1691.1	1684.3	1662.3	1657.2	1653.8	1648.7	1650.4	1638.6	1633.5	1635.2	1628.4
5°	1721.6	1709.8	1682.6	1670.8	1667.4	1662.3	1667.4	1658.9	1650.4	1653.8	1650.4
7.5°	1764.0	1747.0	1713.1	1701.3	1699.6	1694.5	1701.3	1694.5	1687.7	1691.1	1684.3
10°	1808.0	1786.0	1748.7	1736.9	1736.9	1735.2	1741.9	1731.8	1725.0	1726.7	1723.3
12.5°	1872.4	1843.6	1802.9	1792.8	1787.7	1792.8	1794.5	1780.9	1769.1	1770.8	1765.7
15°	1950.4	1918.2	1874.1	1858.9	1855.5	1853.8	1847.0	1830.1	1814.8	1813.1	1808.0
17.5°	2035.1	1994.4	1941.9	1926.6	1911.4	1906.3	1889.4	1867.3	1843.6	1843.6	1836.8
20°	2116.4	2070.7	2008.0	1986.0	1963.9	1943.6	1914.8	1879.2	1848.7	1843.6	1836.8
22.5°	2204.5	2150.3	2077.5	2045.3	2006.3	1965.6	1916.5	1869.0	1830.1	1821.6	1816.5
25°	2302.8	2235.0	2148.6	2101.2	2038.5	1975.8	1902.9	1841.9	1796.2	1782.6	1779.2
27.5°	2411.3	2329.9	2224.9	2155.4	2063.9	1965.6	1872.4	1799.6	1743.6	1726.7	1721.6
30°	2521.4	2424.8	2294.4	2192.7	2063.9	1933.4	1816.5	1731.8	1667.4	1643.7	1640.3
32.5°	2631.6	2523.1	2357.1	2213.0	2043.6	1879.2	1743.6	1643.7	1570.8	1542.0	1548.8
35°	2763.7	2631.6	2414.7	2221.5	2009.7	1813.1	1660.6	1543.7	1469.1	1443.7	1448.8
37.5°	2901.0	2740.0	2460.4	2214.7	1962.2	1738.6	1567.4	1453.9	1360.7	1316.6	1321.7
40°	3019.6	2838.3	2492.6	2191.0	1901.2	1653.8	1475.9	1326.8	1198.0	1155.7	1150.6
42.5°	3131.4	2911.2	2509.6	2155.4	1831.8	1555.6	1345.4	1154.0	1025.2	972.6	974.3
45°	3248.4	2982.3	2502.8	2108.0	1745.3	1440.3	1177.7	984.5	871.0	823.5	825.2
47.5°	3382.2	3058.6	2496.0	2057.1	1640.3	1291.2	1016.7	835.4	737.1	703.2	699.8
50°	3524.6	3143.3	2487.5	1994.4	1523.4	1125.1	857.4	696.4	613.4	591.4	586.3
52.5°	3685.5	3234.8	2482.4	1919.9	1382.7	948.9	715.1	574.4	518.5	503.3	501.6
55°	3878.7	3341.6	2489.2	1830.1	1213.3	782.9	594.8	494.8	457.5	449.0	447.3
57.5°	4114.2	3478.8	2509.6	1725.0	1035.3	638.8	506.7	445.7	421.9	415.2	415.2
60°	4370.1	3634.7	2546.8	1606.4	857.4	527.0	449.0	406.7	396.5	405.0	405.0
62.5°	4646.3	3817.7	2612.9	1462.4	691.4	445.7	403.3	374.5	367.7	384.7	386.3
65°	4902.2	3995.6	2655.3	1289.5	549.0	386.3	367.7	342.3	345.7	362.6	360.9
67.5°	*5059.8*	*4143.1*	*2596.0*	*1072.6*	*435.5*	*342.3*	*330.4*	*308.4*	*316.9*	*330.4*	*332.1*
70°	4963.2	4060.0	2302.8	810.0	340.6	298.2	289.8	276.2	283.0	299.9	306.7
72.5°	4490.4	3636.4	1791.1	547.3	274.5	250.8	254.2	247.4	255.9	271.1	286.4
75°	3644.9	2748.5	1201.4	350.8	216.9	213.5	218.6	213.5	216.9	232.1	240.6
77.5°	1902.9	1340.4	598.2	218.6	161.0	166.1	174.5	176.2	186.4	189.8	193.2
80°	887.9	603.2	249.1	122.0	106.8	116.9	133.9	135.6	138.9	144.0	145.7
82.5°	289.8	181.3	115.2	66.1	61.0	66.1	86.4	103.4	105.1	115.2	115.2
85°	30.5	18.6	25.4	27.1	23.7	28.8	39.0	37.3	16.9	10.2	10.2
87.5°	8.5	6.8	8.5	8.5	6.8	6.8	5.1	1.7	0.0	0.0	0.0
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)