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: INVUE

Report Number: P147641

Luminaire Tested: **VXM-E03-LED-E1-5WQ-7050**

Issue Date: 03/03/2020

Report Generated By E0454808

Test Information

Test Method:	LM-79-08
Report Number:	P147641
	REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	03/03/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	VXM-E03-LED-E1-5WQ-7050
Description:	VISION SITE MEDIUM LED LUMINAIRE
	(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source:	(63) 5000K CCT, 70 CRI LEDs
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9800.7 lumens
Efficiency:	N/A
Efficacy:	130.3 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type V - Short - Semi-Cutoff
BUG Rating:	B4 - U0 - G2
Input Watts (W):	75.2
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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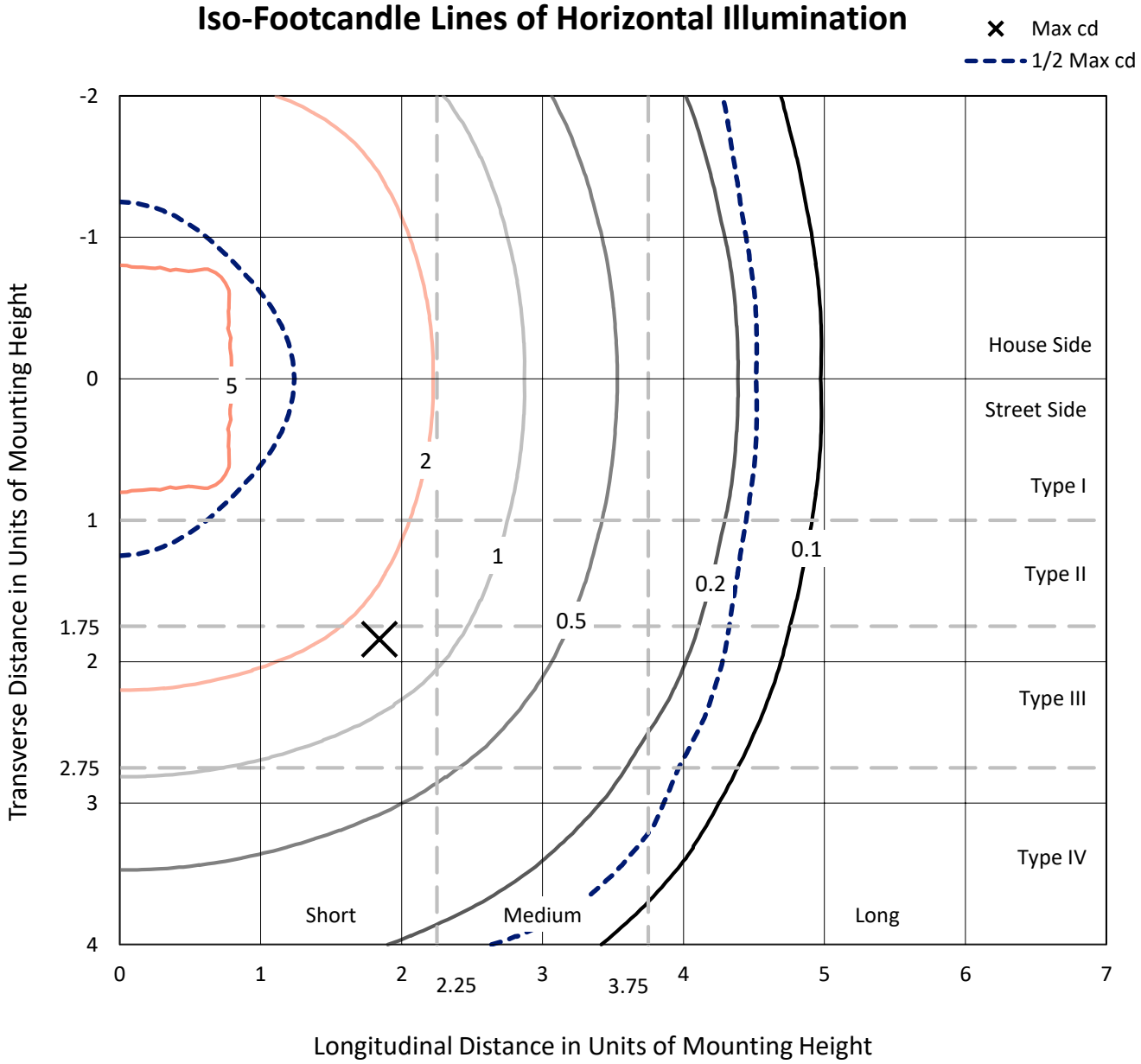
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
Type V - Short - Semi-Cutoff

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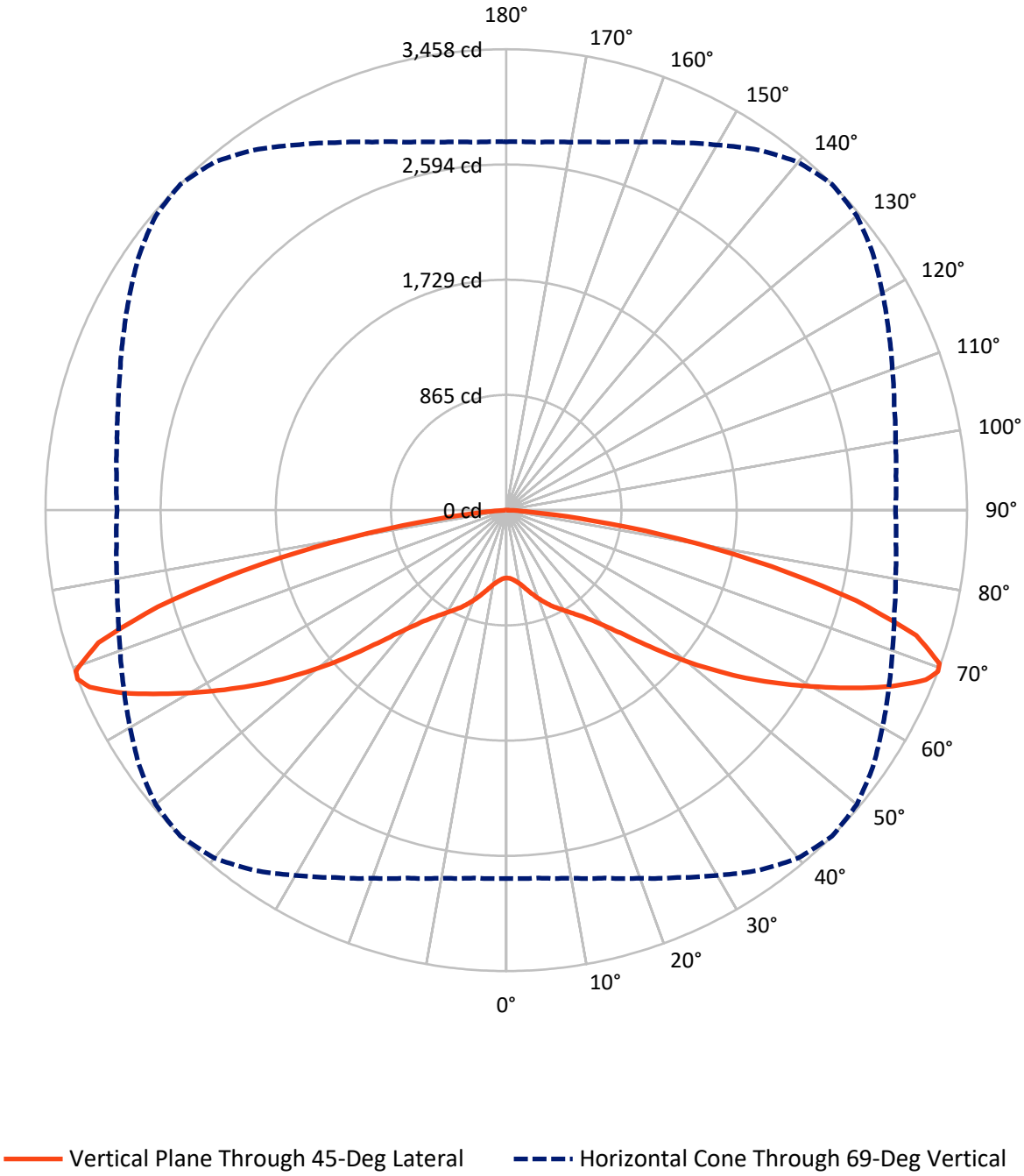
Luminous Intensity Polar Plot



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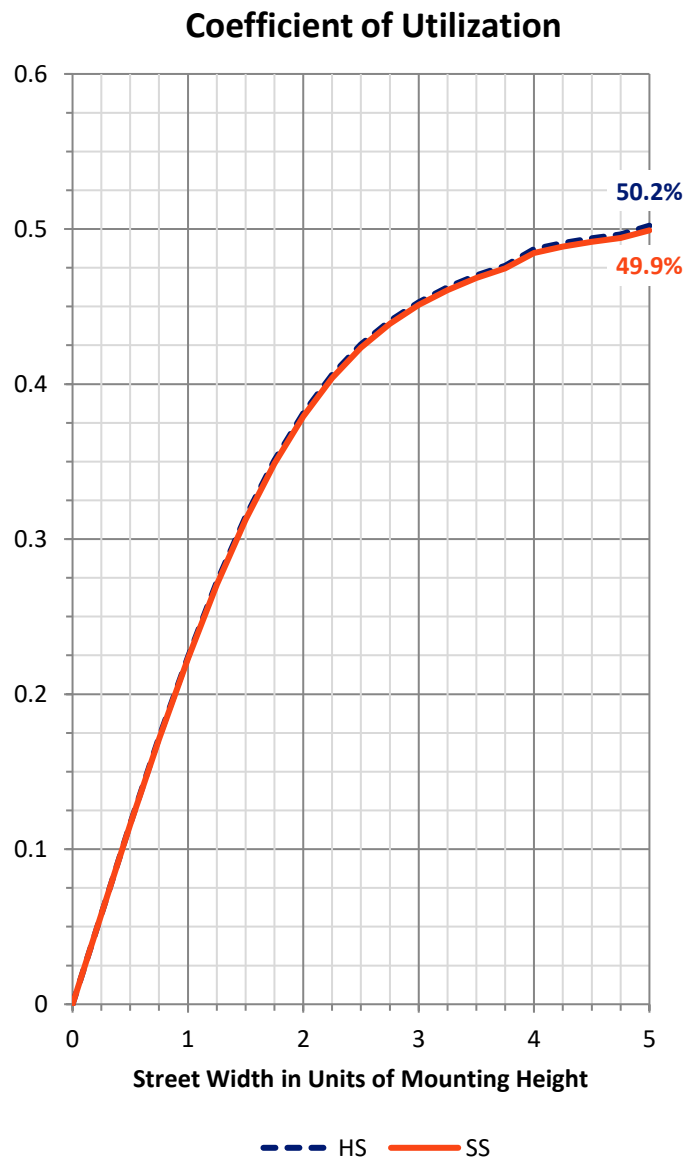
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4900.4	0.0	4900.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4900.4	0.0	4900.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	9800.7	0.0	9800.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	0.5
10°-20°	180.5	1.8
20°-30°	365.4	3.7
30°-40°	612.6	6.3
40°-50°	1080.6	11.0
50°-60°	1905.7	19.4
60°-70°	2909.4	29.7
70°-80°	2431.2	24.8
80°-90°	264.2	2.7
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°	9800.7	100.0
0°-180°	9800.7	100.0



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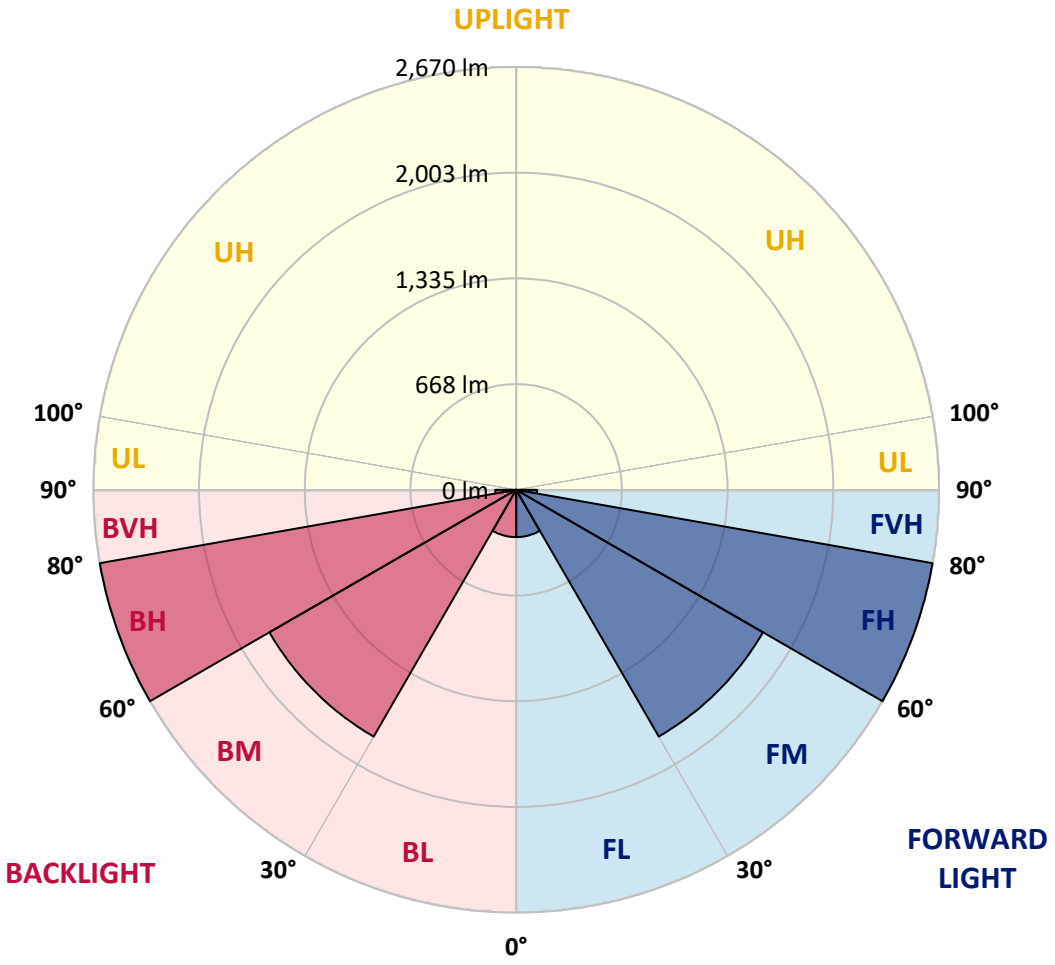
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	298.5	3.0			
FM	(30°-60°)	1799.5	18.4			
FH	(60°-80°)	2670.3	27.2			G2/5000
FVH	(80°-90°)	132.1	1.3			G2/225
BL	(0°-30°)	298.5	3.0	B1/500		
BM	(30°-60°)	1799.5	18.4	B2/2500		
BH	(60°-80°)	2670.3	27.2	B4/5000		G2/5000
BVH	(80°-90°)	132.1	1.3			G2/225
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°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	*508.9*	508.9
2.5°	513.1	514.1	513.1	513.1	513.1	513.1	513.1	512.0	512.0	*512.0*	513.1
5°	523.3	524.3	523.3	524.3	524.3	524.3	524.3	523.3	523.3	*523.3*	523.3
7.5°	539.7	539.7	539.7	540.8	539.7	539.7	540.8	539.7	539.7	*539.7*	539.7
10°	563.3	562.3	562.3	562.3	562.3	562.3	563.3	563.3	563.3	*562.3*	562.3
12.5°	592.1	591.0	592.1	592.1	593.1	593.1	593.1	593.1	593.1	*593.1*	592.1
15°	627.0	627.0	627.0	628.0	630.0	630.0	629.0	630.0	630.0	*630.0*	630.0
17.5°	665.9	668.0	665.9	667.0	668.0	667.0	669.0	670.0	671.1	*670.0*	667.0
20°	706.0	707.0	707.0	707.0	707.0	709.0	710.1	710.1	713.1	*712.1*	711.1
22.5°	743.9	746.0	746.0	747.0	747.0	750.1	750.1	750.1	752.1	*754.2*	752.1
25°	783.9	782.9	782.9	785.0	786.0	790.1	790.1	792.2	795.2	*796.3*	794.2
27.5°	819.9	818.8	818.8	821.9	822.9	828.1	828.1	832.2	834.2	*835.2*	833.2
30°	857.8	857.8	856.8	859.9	863.0	867.1	869.1	873.2	876.3	*877.3*	875.3
32.5°	903.0	900.9	901.9	904.0	906.1	910.2	913.2	918.4	922.5	*923.5*	921.4
35°	954.3	951.2	952.2	954.3	957.4	963.5	968.6	971.7	977.9	*979.9*	975.8
37.5°	1010.7	1011.7	1010.7	1015.8	1021.0	1028.2	1034.3	1038.4	1044.6	*1047.7*	1044.6
40°	1090.8	1087.7	1090.8	1095.9	1104.1	1113.3	1125.6	1128.7	1134.9	*1141.0*	1133.8
42.5°	1194.4	1192.3	1199.5	1203.6	1212.9	1223.1	1238.5	1246.7	1256.0	*1260.1*	1253.9
45°	1329.8	1329.8	1338.0	1339.1	1353.4	1366.8	1388.3	1398.6	1416.0	*1416.0*	1416.0
47.5°	1479.6	1485.8	1490.9	1501.2	1511.5	1536.1	1557.6	1580.2	1596.6	*1598.7*	1595.6
50°	1634.6	1640.7	1656.1	1670.5	1693.1	1723.9	1747.5	1777.2	1791.6	*1803.9*	1799.8
52.5°	1805.9	1807.0	1825.4	1843.9	1876.7	1910.6	1948.6	1979.4	2005.0	*2016.3*	2007.1
55°	1993.7	1995.8	2012.2	2031.7	2068.6	2107.6	2154.8	2186.6	2219.5	*2240.0*	2224.6
57.5°	2196.9	2197.9	2214.3	2237.9	2282.1	2321.1	2366.2	2411.3	2442.1	*2460.6*	2450.3
60°	2421.6	2426.7	2439.1	2468.8	2510.9	2551.9	2597.1	2637.1	2673.0	*2692.5*	2682.2
62.5°	2661.7	2666.8	2684.3	2707.9	2744.8	2790.0	2833.1	2884.4	2914.1	*2935.7*	2920.3
65°	2822.8	2832.1	2859.8	2891.6	2945.9	3004.4	3054.7	3124.5	3160.4	*3186.1*	3171.7
67.5°	2833.1	2838.2	2872.1	2920.3	2993.1	3081.4	3184.0	3292.8	3363.6	*3397.4*	3372.8
69°	*2763.3*	*2770.5*	*2803.3*	*2857.7*	*2938.8*	*3041.4*	*3163.5*	*3298.9*	*3407.7*	*3458.0*	*3434.4*
70°	2684.3	2699.7	2735.6	2795.1	2874.1	2981.9	3108.1	3252.8	3380.0	*3448.7*	3431.3
72.5°	2518.1	2522.2	2545.8	2593.0	2653.5	2742.8	2861.8	2998.3	3119.4	*3217.9*	3232.2
75°	2234.9	2248.2	2265.6	2297.5	2328.2	2392.9	2472.9	2566.3	2637.1	*2713.0*	2716.1
77.5°	1689.0	1729.0	1742.3	1749.5	1762.8	1814.2	1883.9	1965.0	2023.5	*2035.8*	2033.7
80°	758.3	811.6	824.0	882.5	918.4	1003.5	1110.2	1234.4	1317.5	*1326.8*	1304.2
82.5°	148.8	159.0	185.7	231.9	316.0	366.3	436.1	523.3	603.4	*649.5*	621.8
85°	49.3	52.3	60.5	66.7	77.0	87.2	105.7	131.3	163.2	*180.6*	161.1
87.5°	19.5	19.5	22.6	24.6	26.7	26.7	26.7	24.6	23.6	*19.5*	17.4
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°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0
5°	523.3	522.3	522.3	521.3	521.3	521.3	521.3	521.3
7.5°	538.7	537.7	536.7	537.7	536.7	536.7	536.7	536.7
10°	562.3	560.3	559.2	558.2	558.2	558.2	557.2	557.2
12.5°	590.0	590.0	589.0	588.0	585.9	586.9	585.9	583.9
15°	628.0	625.9	624.9	623.9	621.8	621.8	621.8	620.8
17.5°	665.9	663.9	663.9	660.8	659.8	659.8	659.8	660.8
20°	708.0	704.9	702.9	700.8	698.8	699.8	697.8	699.8
22.5°	750.1	746.0	743.9	740.8	737.8	737.8	736.7	734.7
25°	791.1	786.0	783.9	780.9	776.8	776.8	774.7	772.7
27.5°	830.1	825.0	822.9	816.8	812.7	811.6	809.6	808.6
30°	873.2	867.1	864.0	857.8	851.7	850.6	847.6	847.6
32.5°	918.4	912.2	910.2	900.9	895.8	895.8	893.7	891.7
35°	974.8	965.6	963.5	954.3	947.1	947.1	945.0	946.1
37.5°	1041.5	1034.3	1027.1	1019.9	1011.7	1010.7	1008.7	1006.6
40°	1130.8	1122.6	1114.4	1104.1	1096.9	1094.9	1091.8	1090.8
42.5°	1249.8	1241.6	1225.2	1217.0	1209.8	1203.6	1202.6	1201.6
45°	1401.7	1391.4	1380.1	1364.7	1355.5	1342.1	1340.1	1335.0
47.5°	1584.3	1564.8	1545.3	1532.0	1517.6	1502.2	1499.1	1490.9
50°	1778.2	1762.8	1730.0	1708.5	1685.9	1670.5	1660.2	1657.2
52.5°	1986.5	1957.8	1925.0	1896.2	1863.4	1842.9	1824.4	1819.3
55°	2204.1	2163.0	2122.0	2088.1	2055.3	2030.7	2013.2	2005.0
57.5°	2421.6	2376.5	2331.3	2294.4	2266.7	2234.9	2217.4	2213.3
60°	2648.4	2605.3	2559.1	2522.2	2488.3	2460.6	2450.3	2430.8
62.5°	2888.5	2843.3	2800.2	2764.3	2721.2	2701.7	2684.3	2673.0
65°	3124.5	3072.2	3017.8	2979.8	2936.7	2909.0	2887.5	2872.1
67.5°	3307.1	3228.1	3155.3	3091.7	3033.2	2990.1	2962.4	2948.0
69°	*3358.4*	*3259.9*	*3166.6*	*3083.4*	*3014.7*	*2966.5*	*2935.7*	*2921.3*
70°	3352.3	3243.5	3140.9	3049.6	2974.7	2923.4	2893.6	2866.9
72.5°	3162.5	3062.9	2949.0	2849.5	2781.8	2732.5	2702.8	2688.4
75°	2698.7	2632.0	2549.9	2472.9	2423.7	2394.9	2358.0	2359.0
77.5°	1965.0	1967.0	1911.6	1832.6	1777.2	1767.0	1750.5	1734.1
80°	1219.0	1121.5	1057.9	972.7	910.2	855.8	832.2	780.9
82.5°	562.3	439.2	340.7	257.6	198.0	154.9	135.4	110.8
85°	125.2	95.4	79.0	63.6	54.4	50.3	41.0	38.0
87.5°	17.4	15.4	14.4	13.3	11.3	8.2	6.2	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)