

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: P147195

Luminaire Tested: **VXS-F04-LED-E1-5MQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P147195
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-F04-LED-E1-5MQ
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10645.2 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 102.2
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



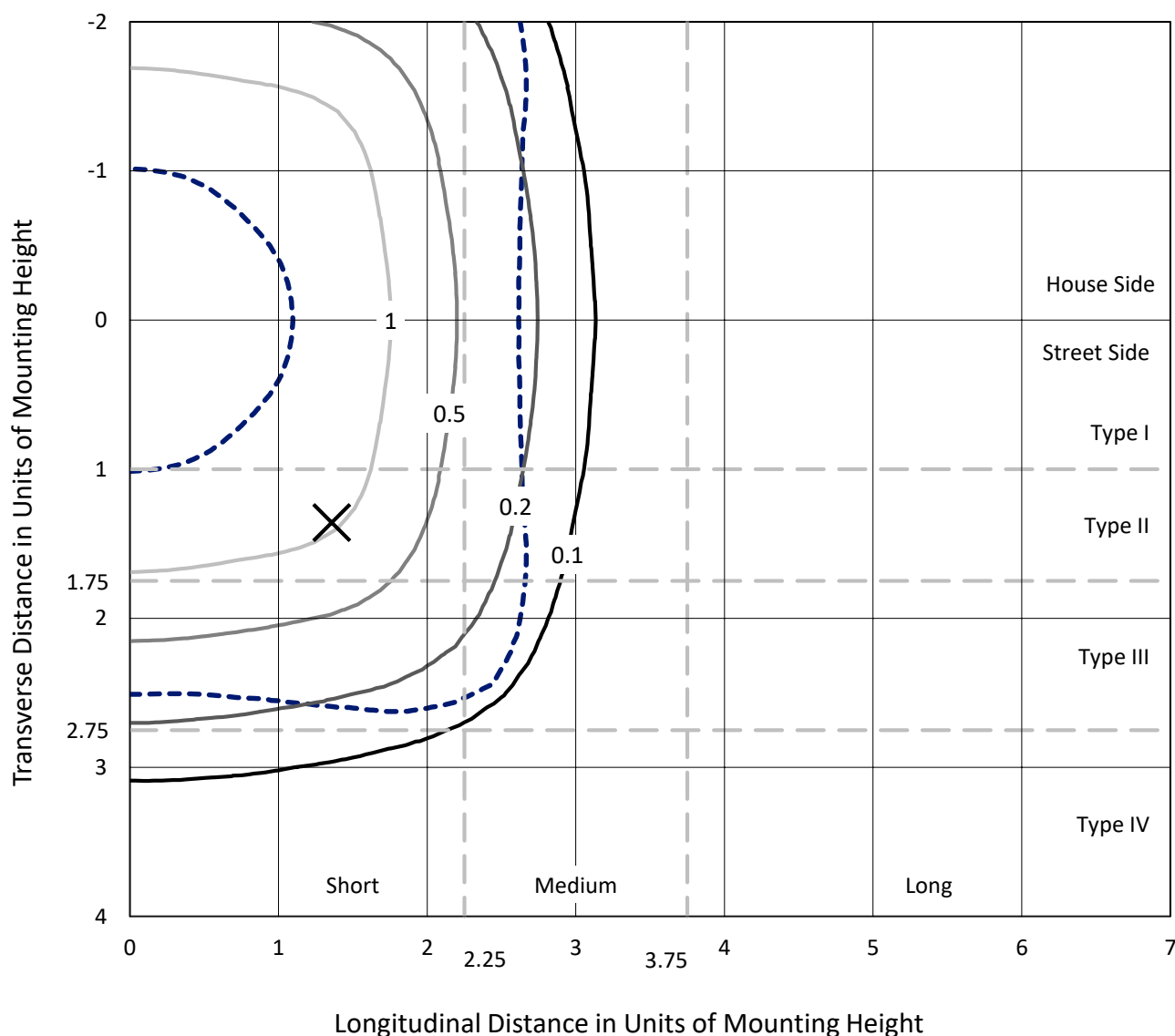
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

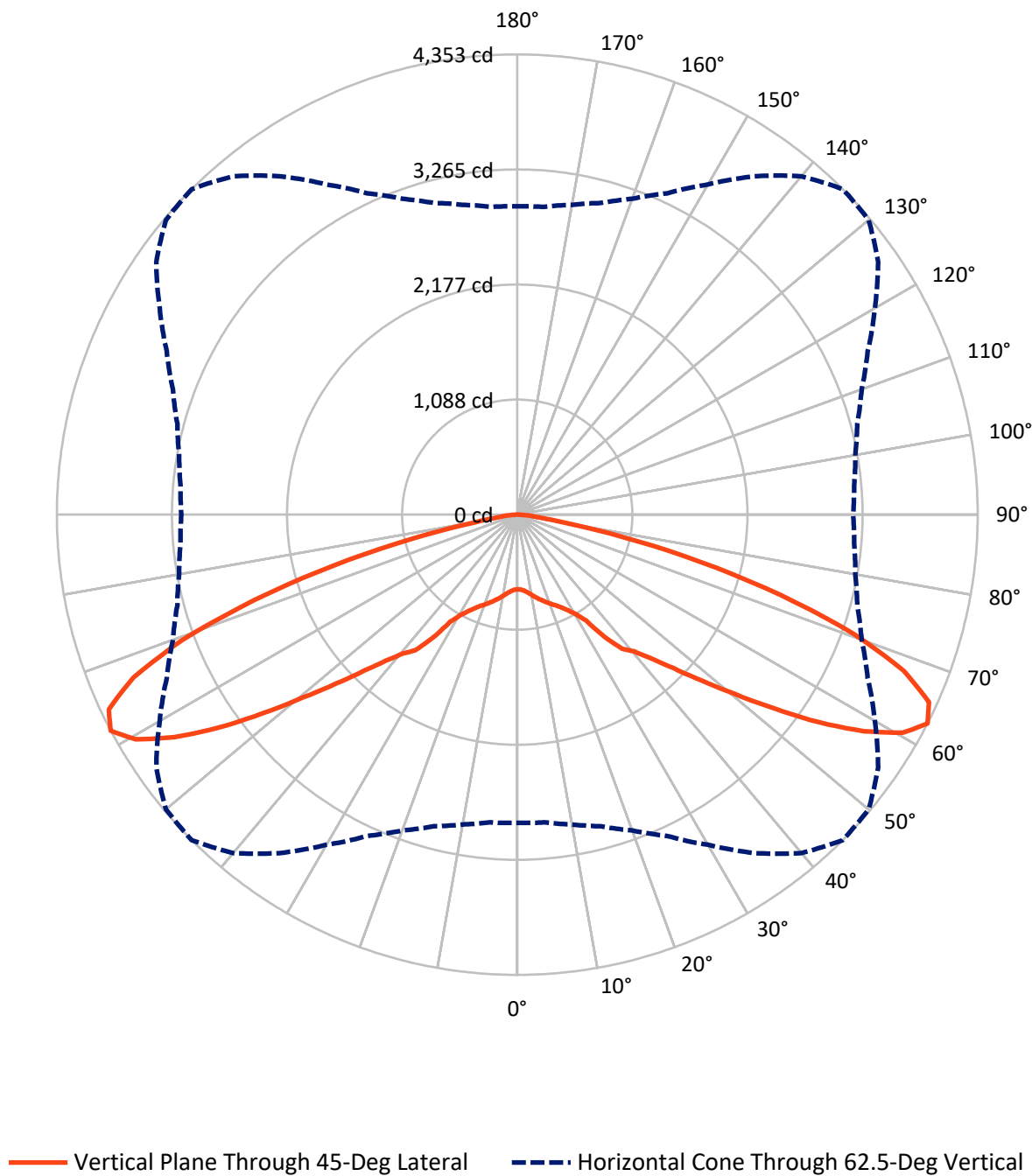


Based on 20 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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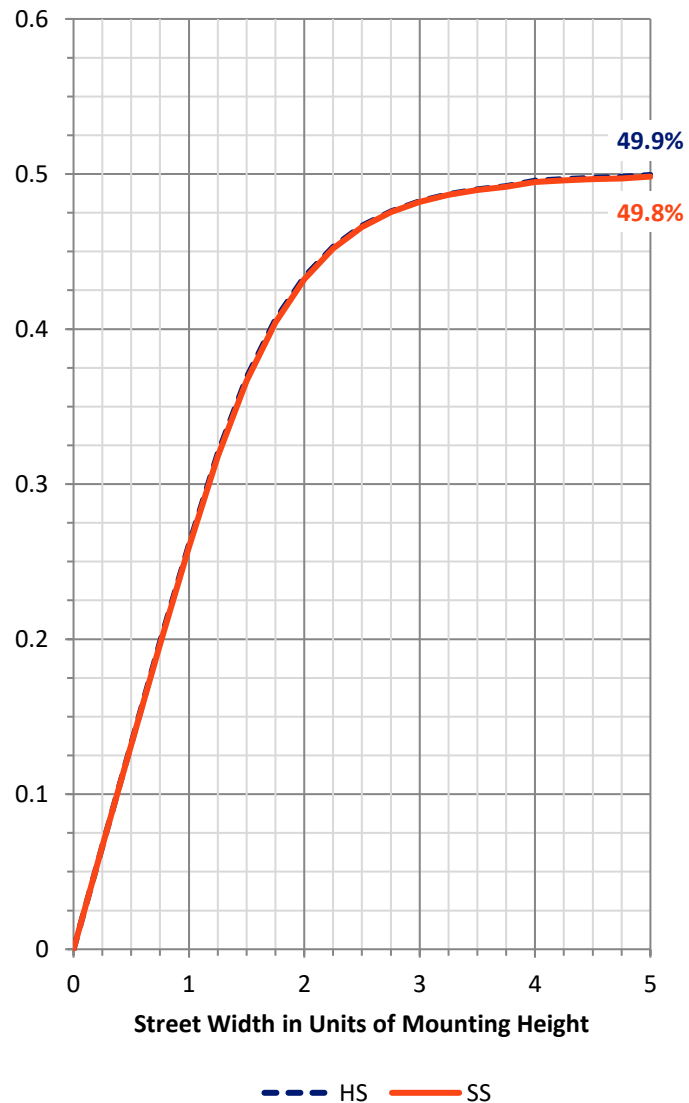
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5322.6	0.0	5322.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5322.6	0.0	5322.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	10645.2	0.0	10645.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	0.7
10°-20°	239.4	2.2
20°-30°	462.9	4.3
30°-40°	896.2	8.4
40°-50°	1618.1	15.2
50°-60°	2813.6	26.4
60°-70°	3194.2	30.0
70°-80°	1238.4	11.6
80°-90°	111.7	1.0
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°	10645.2	100.0
0°-180°	10645.2	100.0

Coefficient of Utilization



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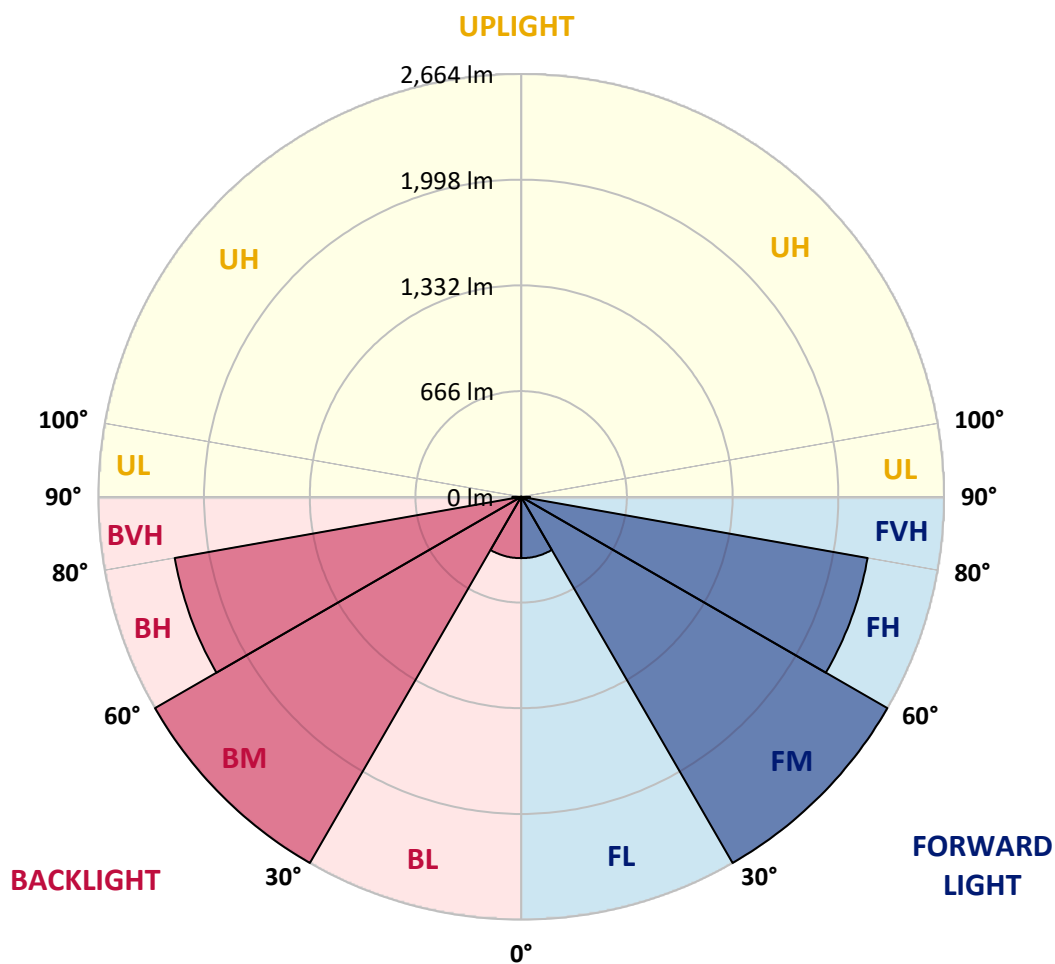
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	386.5	3.6			
FM	(30°-60°)	2663.9	25.0			
FH	(60°-80°)	2216.3	20.8			G2/5000
FVH	(80°-90°)	55.9	0.5			G1/100
BL	(0°-30°)	386.5	3.6	B1/500		
BM	(30°-60°)	2663.9	25.0	B3/5000		
BH	(60°-80°)	2216.3	20.8	B3/2500		G2/5000
BVH	(80°-90°)	55.9	0.5			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°	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6
2.5°	711.1	713.3	712.7	711.6	711.6	711.6	711.1	709.4	708.8	709.9	711.1
5°	727.6	727.6	727.6	727.6	726.4	726.4	725.4	724.2	724.8	723.7	723.1
7.5°	753.0	751.3	751.2	750.7	750.7	749.6	748.0	745.7	746.3	745.8	745.2
10°	782.6	783.2	781.5	783.2	780.4	779.9	777.6	776.6	776.0	774.3	774.3
12.5°	818.4	816.7	816.8	815.6	814.5	813.5	810.2	809.5	807.4	806.3	804.6
15°	852.0	851.4	849.1	847.0	846.4	845.4	841.5	839.3	838.8	836.0	833.8
17.5°	885.5	884.4	881.7	880.6	878.3	876.7	873.4	870.1	868.4	867.4	864.7
20°	921.2	920.2	917.4	915.2	912.5	910.3	905.3	902.6	900.9	899.3	897.0
22.5°	965.8	963.7	959.3	955.4	949.3	947.2	940.5	936.7	933.9	931.8	930.6
25°	1014.3	1014.8	1008.8	1003.8	996.7	990.7	982.4	978.0	975.2	973.1	972.4
27.5°	1074.8	1075.3	1069.8	1062.8	1051.7	1045.2	1034.1	1028.6	1026.9	1024.8	1024.2
30°	1170.6	1165.6	1156.3	1144.7	1134.8	1120.5	1104.6	1099.1	1093.5	1091.9	1091.9
32.5°	1346.7	1343.9	1336.3	1307.6	1294.5	1264.7	1236.7	1220.7	1202.5	1193.7	1188.2
35°	1470.1	1468.8	1462.8	1452.8	1444.7	1438.5	1422.1	1419.3	1416.1	1416.1	1420.5
37.5°	1560.8	1554.2	1553.1	1554.8	1552.5	1553.6	1566.8	1585.1	1600.4	1608.1	1607.0
40°	1695.1	1685.7	1691.2	1687.4	1682.4	1681.2	1685.8	1692.8	1700.1	1700.1	1698.4
42.5°	1870.7	1875.0	1877.3	1861.3	1850.8	1848.1	1858.5	1856.4	1863.4	1860.7	1853.6
45°	2131.5	2128.7	2125.0	2105.7	2089.1	2075.9	2078.7	2074.8	2075.4	2071.0	2065.5
47.5°	2394.6	2403.9	2388.0	2378.7	2359.9	2350.5	2358.2	2351.7	2364.4	2341.1	2330.2
50°	2649.8	2656.6	2651.0	2637.8	2637.8	2651.0	2660.3	2672.5	2690.2	2663.6	2624.0
52.5°	2859.1	2864.6	2872.7	2883.8	2910.8	2938.9	2978.4	3020.8	3054.5	3049.5	3004.4
55°	2986.7	2993.4	3007.2	3045.1	3093.5	3167.3	3257.0	3355.4	3432.5	3470.1	3436.9
57.5°	3029.6	3034.6	3072.1	3117.7	3193.2	3302.6	3452.8	3623.0	3771.0	3865.1	3850.2
60°	3019.7	3019.8	3057.7	3120.4	3226.1	3371.4	3583.8	3819.5	4046.2	4187.0	4166.1
62.5°	2915.8	2921.2	2975.8	3051.2	3178.8	3352.7	3605.9	3906.9	4178.2	4353.3	4336.2
65°	2688.0	2691.8	2750.7	2840.4	2982.9	3188.8	3465.5	3799.1	4110.1	4278.3	4246.5
67.5°	2319.7	2323.6	2371.4	2472.7	2623.5	2838.8	3137.6	3504.7	3808.9	3942.2	3846.4
70°	1845.3	1856.4	1887.2	1994.4	2108.9	2319.8	2594.9	2962.0	3249.2	3375.2	3269.6
72.5°	1257.6	1285.6	1323.0	1418.2	1527.8	1702.8	1921.9	2231.1	2461.8	2607.6	2513.5
75°	708.3	748.0	759.5	831.5	921.9	1060.0	1220.1	1441.9	1674.7	1793.0	1679.7
77.5°	306.0	338.4	352.7	386.3	456.8	514.6	612.0	761.7	941.7	1024.8	888.8
80°	150.9	158.5	164.6	175.0	194.8	213.6	259.8	325.3	399.0	417.7	332.4
82.5°	116.7	122.2	132.6	140.9	145.9	150.8	155.2	163.9	171.2	175.0	165.2
85°	82.1	89.1	100.7	110.1	115.5	119.4	123.3	126.0	119.4	109.0	114.5
87.5°	21.6	28.1	39.1	42.4	47.9	50.6	49.5	51.2	46.2	33.6	37.4
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°	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6
2.5°	710.5	709.9	710.6	710.5	710.5	710.1	709.9	709.9
5°	723.1	723.1	723.7	722.6	722.7	723.1	722.6	722.1
7.5°	744.7	744.0	744.0	743.5	744.1	743.5	743.5	743.0
10°	773.3	772.1	772.6	771.0	771.0	770.5	770.6	770.5
12.5°	804.0	802.5	802.9	801.2	798.5	799.2	799.7	799.1
15°	833.8	832.1	830.5	829.4	827.8	828.3	828.3	827.8
17.5°	864.0	860.7	860.2	858.5	858.0	858.0	858.0	858.5
20°	895.4	893.3	892.6	891.0	890.5	892.1	892.6	891.6
22.5°	929.0	927.9	928.9	927.9	929.5	930.6	931.2	930.1
25°	971.4	970.3	971.9	975.8	978.0	979.1	981.8	980.7
27.5°	1025.9	1024.8	1028.6	1034.2	1037.5	1042.9	1045.7	1046.7
30°	1096.4	1101.2	1103.4	1114.4	1116.7	1125.5	1125.5	1129.3
32.5°	1198.7	1208.1	1224.5	1241.7	1265.3	1282.3	1282.3	1291.1
35°	1423.2	1427.0	1439.8	1442.5	1447.5	1453.0	1447.5	1451.8
37.5°	1595.4	1578.3	1566.2	1549.2	1538.9	1538.8	1539.9	1538.8
40°	1683.5	1676.9	1671.5	1657.1	1654.8	1654.3	1654.3	1656.6
42.5°	1840.9	1825.0	1816.2	1804.0	1800.2	1799.1	1798.5	1799.7
45°	2045.6	2019.7	1996.1	1984.0	1973.5	1963.7	1966.9	1966.9
47.5°	2283.9	2243.7	2205.3	2184.4	2166.2	2157.9	2152.4	2150.8
50°	2574.0	2517.9	2468.3	2429.2	2402.8	2402.3	2405.0	2387.5
52.5°	2929.5	2840.8	2779.3	2726.4	2701.7	2699.0	2690.2	2680.2
55°	3323.5	3218.4	3116.7	3059.9	3027.5	3009.8	2999.4	2982.9
57.5°	3729.7	3588.3	3441.9	3351.1	3293.9	3254.2	3233.4	3223.9
60°	4042.9	3849.7	3656.6	3510.7	3415.5	3356.6	3320.2	3305.4
62.5°	4166.2	3904.1	3656.6	3465.1	3327.5	3246.0	3196.9	3175.5
65°	4019.2	3708.8	3427.0	3215.8	3062.2	2971.4	2917.9	2894.8
67.5°	3608.7	3334.6	3028.0	2817.8	2659.9	2570.2	2512.3	2495.3
70°	3025.3	2745.1	2452.3	2264.7	2123.7	2050.6	1990.6	1983.4
72.5°	2273.6	2031.9	1780.9	1625.7	1512.3	1391.3	1360.4	1375.9
75°	1457.3	1231.1	1007.7	868.0	764.5	648.9	604.4	615.3
77.5°	690.2	534.4	385.8	298.2	250.4	214.1	204.8	199.3
80°	256.0	207.5	183.3	173.9	167.3	161.2	156.9	151.9
82.5°	165.7	161.9	156.9	155.2	150.3	142.6	128.3	122.2
85°	123.8	123.8	117.3	117.7	114.0	104.0	90.8	83.6
87.5°	36.3	32.4	29.6	27.6	26.9	24.2	17.6	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)