

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: P180198

Luminaire Tested: **ICM-E05-LED-E1-5XQ**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180198  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-E05-LED-E1-5XQ  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (105) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14792.6 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G3

Input Watts (W): 127.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

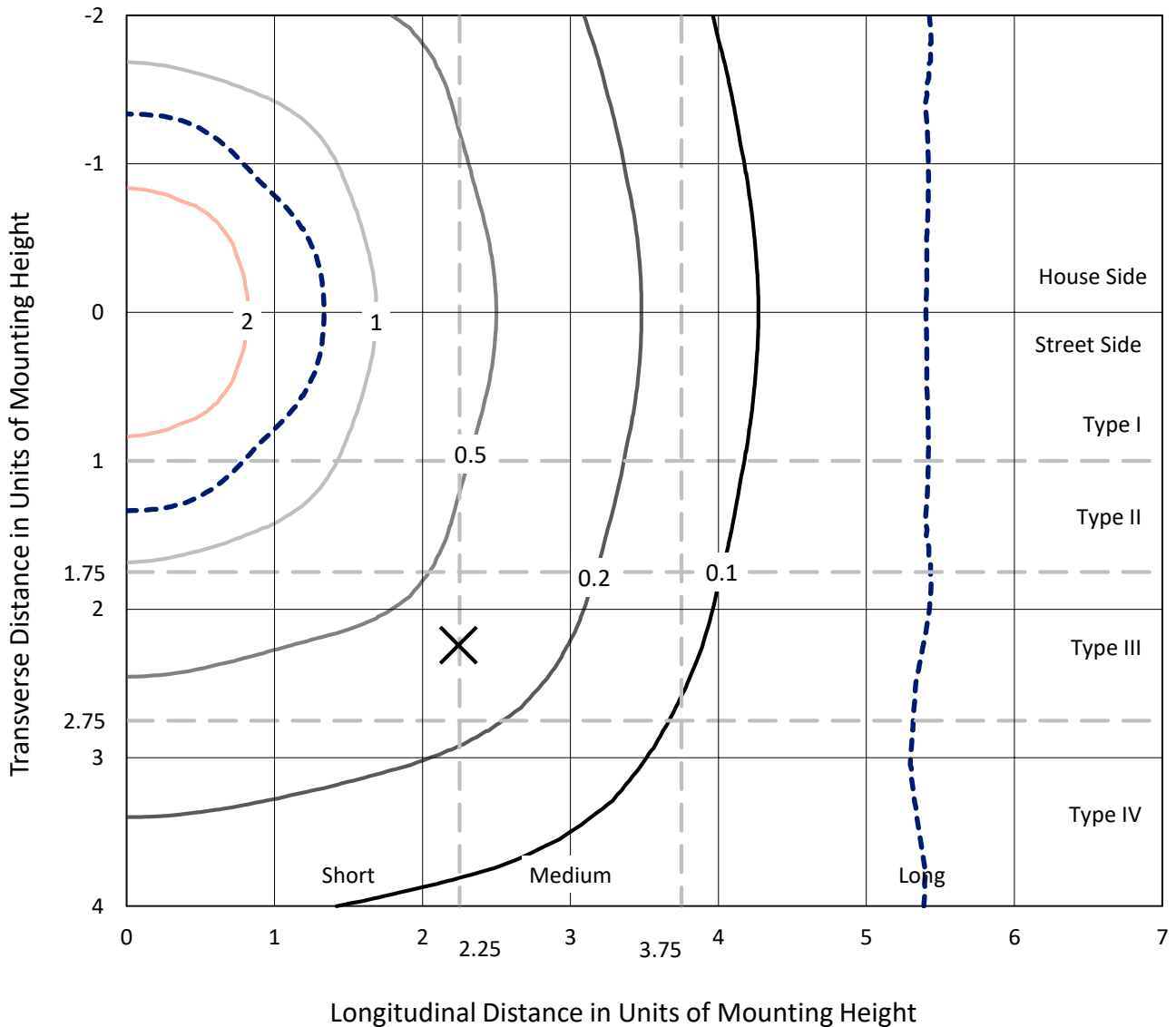


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### Iso-Footcandle Lines of Horizontal Illumination

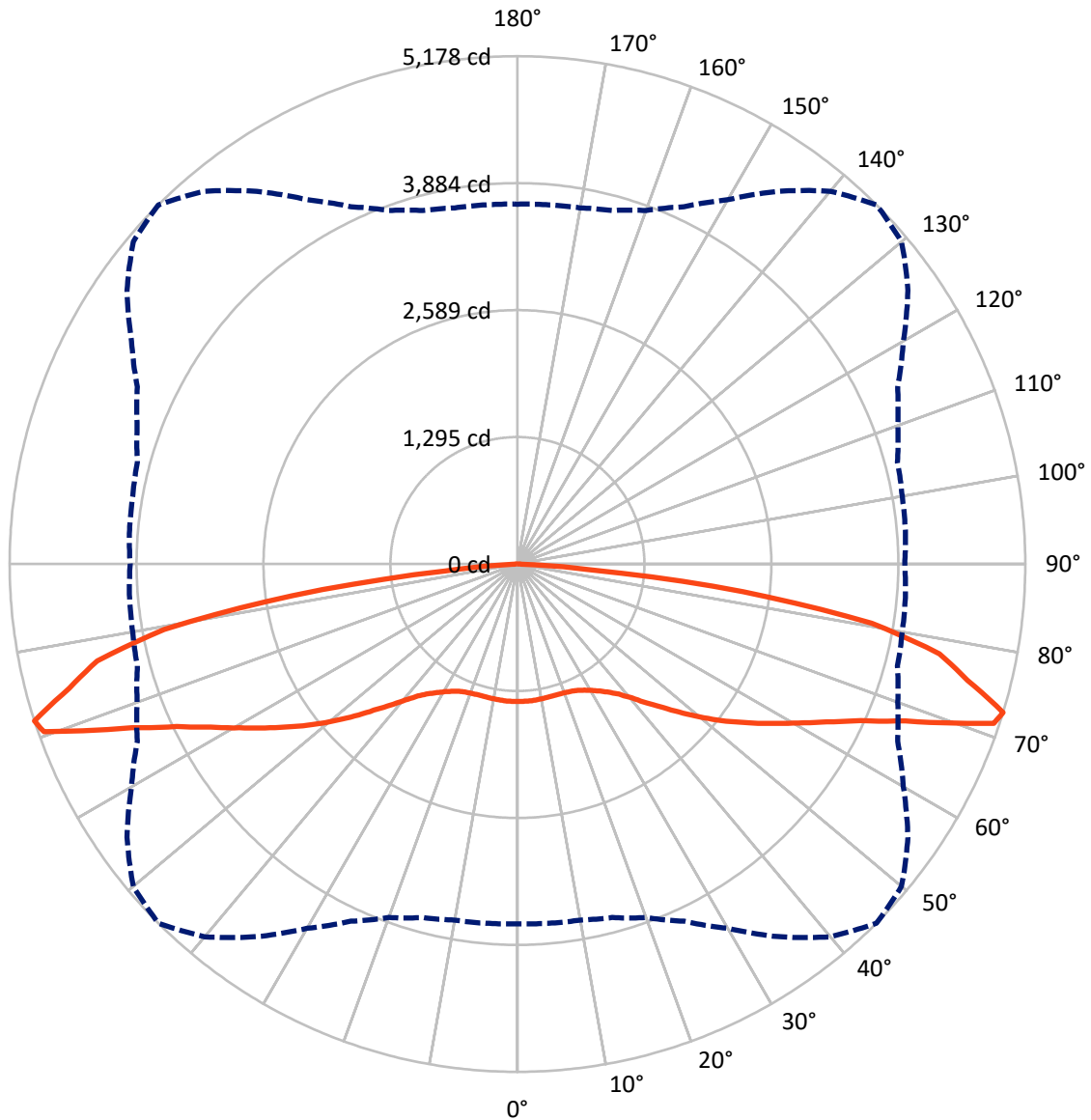
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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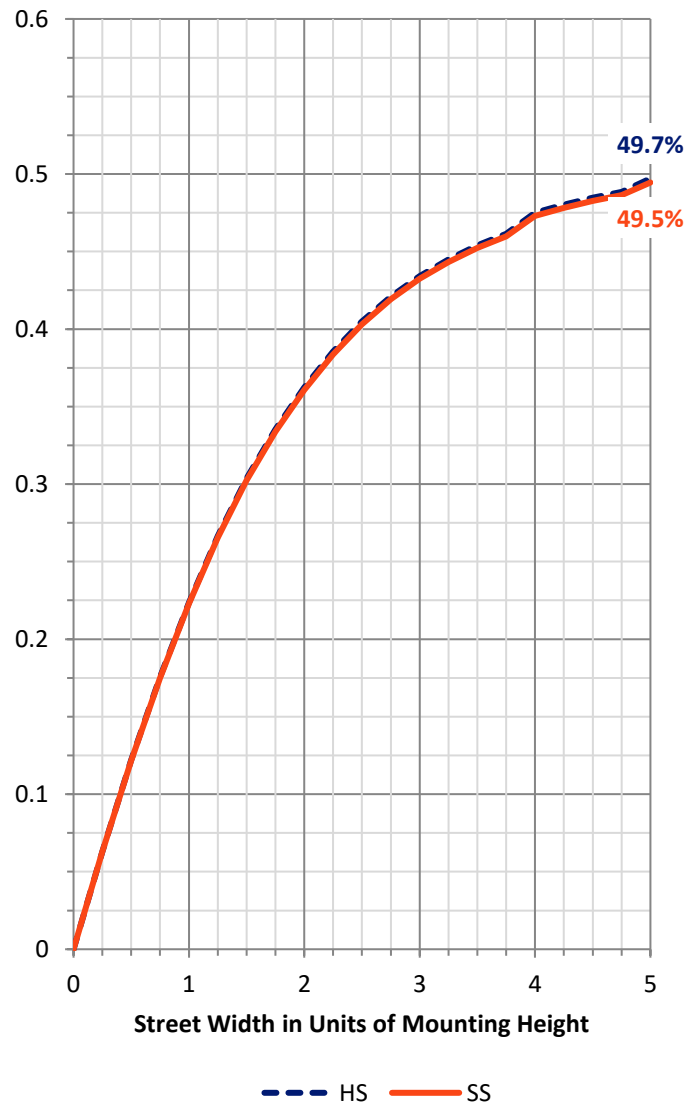
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7396.3	0.0	7396.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7396.3	0.0	7396.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14792.6	0.0	14792.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.6	0.9
10°-20°	395.1	2.7
20°-30°	661.7	4.5
30°-40°	1008.7	6.8
40°-50°	1610.7	10.9
50°-60°	2476.5	16.7
60°-70°	3605.8	24.4
70°-80°	4062.0	27.5
80°-90°	838.5	5.7
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°	14792.6	100.0
0°-180°	14792.6	100.0



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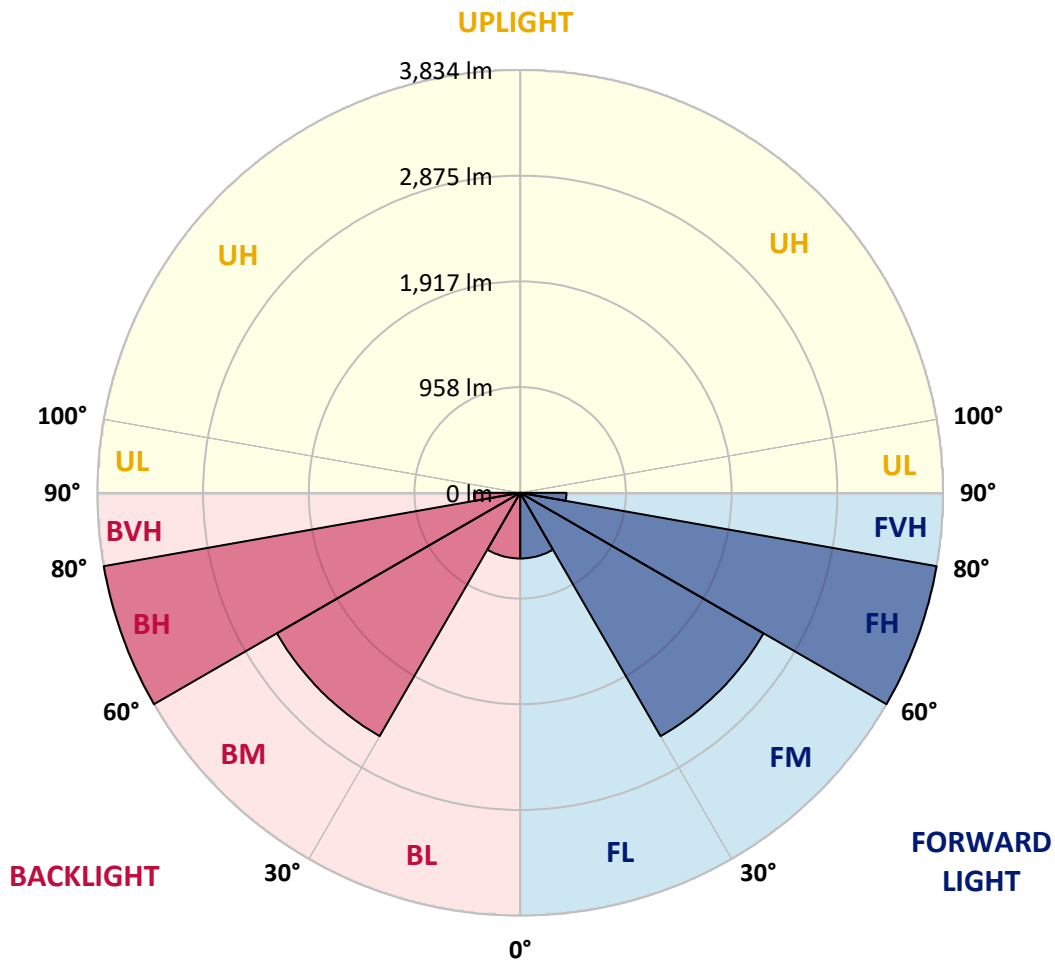
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	595.2	4.0			
FM	(30°-60°)	2547.9	17.2			
FH	(60°-80°)	3833.9	25.9			G2/5000
FVH	(80°-90°)	419.3	2.8			G3/500
BL	(0°-30°)	595.2	4.0	B2/1000		
BM	(30°-60°)	2547.9	17.2	B3/5000		
BH	(60°-80°)	3833.9	25.9	B4/5000		G2/5000
BVH	(80°-90°)	419.3	2.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1401.6	1401.6	1401.6	1401.6	1401.6	1401.6	1401.6	1401.6	1401.6	1401.6	1401.6
2.5°	1403.9	1404.7	1404.3	1403.5	1403.9	1403.5	1402.7	1402.3	1399.6	1401.1	1403.5
5°	1403.9	1403.1	1402.7	1402.3	1402.3	1403.5	1402.3	1401.1	1400.8	1401.6	1400.4
7.5°	1403.2	1401.5	1400.8	1400.4	1400.8	1401.1	1400.0	1398.5	1399.6	1398.5	1396.9
10°	1400.8	1399.6	1400.0	1398.5	1398.9	1398.5	1396.9	1395.7	1396.5	1395.4	1393.4
12.5°	1401.5	1399.6	1399.3	1398.5	1398.1	1397.7	1395.7	1393.8	1394.2	1393.4	1391.5
15°	1401.5	1400.4	1400.0	1398.4	1398.1	1397.3	1395.0	1394.2	1394.2	1393.0	1390.7
17.5°	1402.3	1401.6	1401.6	1399.6	1398.9	1398.4	1395.7	1394.6	1395.7	1393.4	1391.8
20°	1404.7	1403.9	1404.3	1403.2	1401.6	1401.5	1399.6	1398.9	1399.3	1398.9	1394.6
22.5°	1409.3	1409.3	1410.1	1409.7	1409.3	1409.7	1408.2	1408.2	1408.6	1408.6	1405.0
25°	1422.5	1422.1	1422.9	1422.9	1423.3	1426.0	1424.8	1424.4	1426.3	1426.4	1422.9
27.5°	1447.3	1446.5	1447.3	1448.1	1450.1	1453.5	1452.8	1453.9	1457.0	1456.2	1453.1
30°	1475.9	1475.2	1477.1	1479.5	1481.0	1486.4	1484.1	1490.0	1492.7	1495.0	1492.7
32.5°	1517.8	1517.9	1521.3	1522.9	1526.3	1531.8	1532.6	1537.2	1540.7	1544.6	1541.9
35°	1573.6	1572.8	1575.6	1578.2	1582.6	1587.5	1589.6	1595.7	1601.1	1603.9	1598.8
37.5°	1659.0	1654.7	1659.7	1661.2	1664.8	1665.9	1671.3	1679.1	1684.9	1684.1	1680.7
40°	1774.4	1773.6	1771.7	1769.4	1774.8	1776.8	1776.8	1787.2	1796.5	1795.0	1794.6
42.5°	1909.3	1905.9	1903.5	1903.5	1906.6	1907.4	1919.5	1927.2	1933.8	1935.3	1933.8
45°	2054.3	2050.8	2051.5	2050.1	2051.2	2056.2	2063.2	2077.5	2090.0	2090.3	2083.7
47.5°	2210.1	2199.3	2207.8	2195.7	2203.1	2207.0	2224.4	2245.3	2267.1	2270.9	2265.1
50°	2368.2	2367.1	2366.3	2363.9	2367.5	2376.0	2397.3	2430.2	2451.2	2465.1	2455.8
52.5°	2541.0	2535.3	2532.6	2528.7	2532.2	2548.9	2578.7	2607.4	2645.0	2660.9	2648.1
55°	2709.3	2707.4	2697.3	2696.9	2704.3	2730.2	2762.8	2798.1	2838.7	2856.6	2851.9
57.5°	2882.2	2870.9	2867.8	2863.2	2878.0	2902.3	2942.3	3005.8	3048.1	3068.2	3056.6
60°	3051.2	3042.7	3036.1	3034.5	3044.6	3078.7	3136.0	3212.5	3264.8	3291.1	3272.5
62.5°	3232.6	3227.2	3219.4	3210.4	3231.8	3275.6	3346.9	3431.5	3508.6	3541.0	3512.8
65°	3458.2	3446.9	3438.3	3427.2	3444.6	3499.6	3589.2	3708.1	3811.7	3849.6	3829.4
67.5°	3696.1	3685.7	3686.4	3679.5	3710.5	3786.8	3902.3	4064.0	4202.7	4267.5	4229.5
70°	3903.9	3909.7	3911.3	3939.6	3993.0	4109.3	4301.6	4554.6	4765.1	4864.0	4823.3
71°	3842.6	3855.5	3875.2	3904.7	3996.9	4134.5	4396.9	4703.5	4954.6	5122.1	5065.9
72.5°	3669.0	3676.8	3686.8	3731.7	3836.1	4018.3	4288.4	4638.8	4961.7	5178.4	5113.2
75°	3417.9	3425.2	3428.7	3460.1	3555.1	3714.0	3961.2	4272.1	4557.1	4741.5	4723.3
77.5°	3038.7	3039.9	3067.1	3115.6	3222.2	3403.9	3664.4	3986.8	4254.7	4398.2	4307.0
80°	2182.2	2167.5	2195.4	2257.8	2389.6	2598.1	2864.8	3233.0	3530.3	3664.4	3523.3
82.5°	830.2	875.2	946.1	1049.2	1093.8	1325.6	1574.4	1790.7	2041.1	2320.9	2250.8
85°	89.1	100.4	126.0	156.2	197.3	272.8	377.1	514.7	634.5	745.8	662.1
87.5°	33.3	34.1	38.0	43.8	44.6	46.5	49.6	57.8	53.9	46.5	37.6
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°	1401.6	1401.6	1401.6	1401.6	1401.6	1401.6	1401.6	1401.6
2.5°	1401.6	1402.0	1401.6	1402.0	1402.0	1400.4	1400.8	1400.0
5°	1401.1	1400.0	1400.4	1400.8	1400.4	1401.1	1400.0	1400.8
7.5°	1399.3	1396.9	1397.7	1397.7	1396.9	1398.1	1397.3	1396.8
10°	1395.4	1392.2	1393.8	1393.0	1392.7	1393.0	1393.0	1393.0
12.5°	1391.8	1390.0	1390.3	1390.0	1389.6	1390.7	1390.3	1390.7
15°	1391.1	1388.0	1387.6	1386.8	1387.2	1388.0	1388.0	1389.2
17.5°	1390.3	1386.4	1386.1	1385.3	1385.7	1387.2	1387.6	1386.8
20°	1392.6	1389.6	1388.8	1388.0	1387.6	1389.6	1389.1	1389.2
22.5°	1403.5	1399.6	1399.3	1396.1	1395.0	1396.1	1395.4	1395.4
25°	1420.9	1416.3	1414.7	1410.4	1407.4	1407.4	1406.2	1405.4
27.5°	1452.3	1445.4	1443.8	1440.3	1436.1	1436.8	1434.5	1434.1
30°	1488.8	1482.6	1477.1	1472.1	1467.1	1465.1	1462.4	1462.0
32.5°	1536.5	1529.5	1522.9	1516.7	1509.7	1507.0	1502.3	1500.0
35°	1595.0	1585.7	1577.9	1573.6	1566.7	1563.2	1560.1	1563.5
37.5°	1676.8	1665.5	1661.6	1656.6	1651.9	1646.5	1647.6	1646.5
40°	1790.0	1779.8	1776.0	1767.1	1765.9	1759.7	1763.5	1759.7
42.5°	1929.9	1911.3	1908.5	1901.6	1899.3	1895.7	1897.3	1894.6
45°	2082.2	2065.5	2062.4	2051.2	2051.5	2043.4	2046.5	2046.5
47.5°	2253.5	2236.0	2221.7	2213.6	2210.4	2205.4	2208.2	2207.8
50°	2430.2	2406.6	2390.7	2374.8	2367.8	2369.8	2364.4	2373.6
52.5°	2620.2	2584.9	2562.4	2547.3	2534.2	2536.9	2537.6	2540.3
55°	2816.7	2771.7	2739.2	2719.4	2707.4	2708.1	2711.6	2714.8
57.5°	3014.3	2958.2	2914.0	2884.5	2876.8	2880.2	2880.3	2879.9
60°	3219.4	3151.9	3095.0	3061.6	3054.7	3052.8	3067.8	3062.8
62.5°	3439.6	3358.5	3299.6	3257.0	3246.9	3253.9	3267.5	3264.4
65°	3731.4	3619.4	3543.5	3501.2	3484.1	3491.1	3509.3	3508.6
67.5°	4107.7	3951.2	3850.8	3796.5	3784.1	3792.6	3802.7	3812.5
70°	4670.5	4446.9	4303.6	4186.1	4135.7	4126.0	4136.0	4136.5
71°	4868.7	4611.7	4383.4	4239.9	4157.4	4122.5	4125.2	4107.7
72.5°	4860.5	4543.8	4276.8	4126.8	4012.0	3984.1	3970.5	3949.6
75°	4533.0	4247.7	4015.9	3852.3	3741.9	3709.0	3684.9	3683.7
77.5°	4110.9	3900.4	3645.0	3471.7	3337.2	3282.6	3258.2	3257.3
80°	3304.7	2989.6	2802.7	2698.5	2536.0	2489.1	2439.5	2420.9
82.5°	1998.4	1561.7	1269.8	1128.3	1050.1	864.7	776.0	734.1
85°	465.5	330.6	227.9	149.6	107.7	85.7	65.9	58.1
87.5°	31.4	24.8	22.1	17.9	13.6	13.2	8.2	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)