

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: P180153

Luminaire Tested: **ICS-F04-LED-E1-5WQ**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180153  
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: ICS-F04-LED-E1-5WQ  
Description: ICON SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (28) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9462.4 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

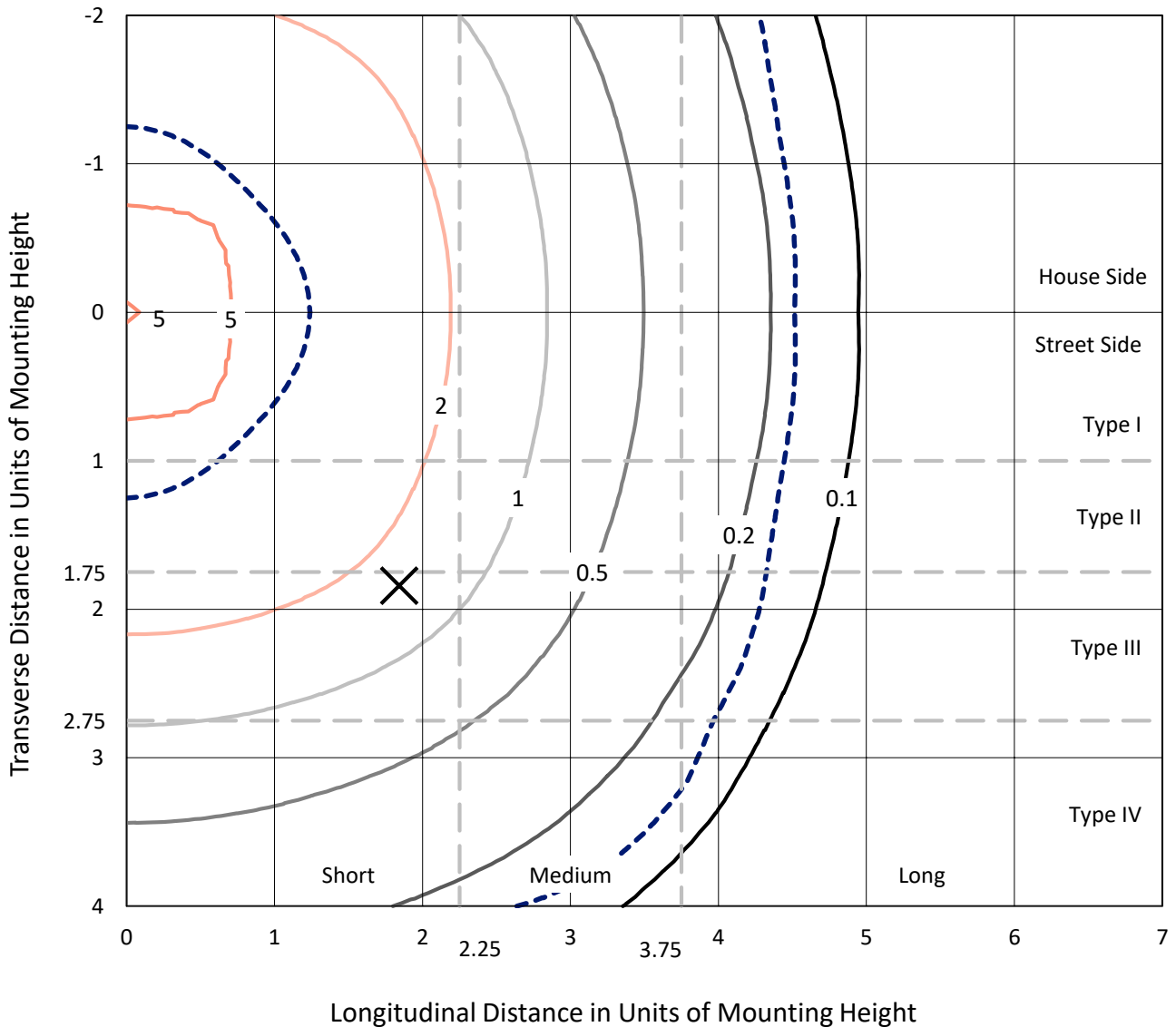
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

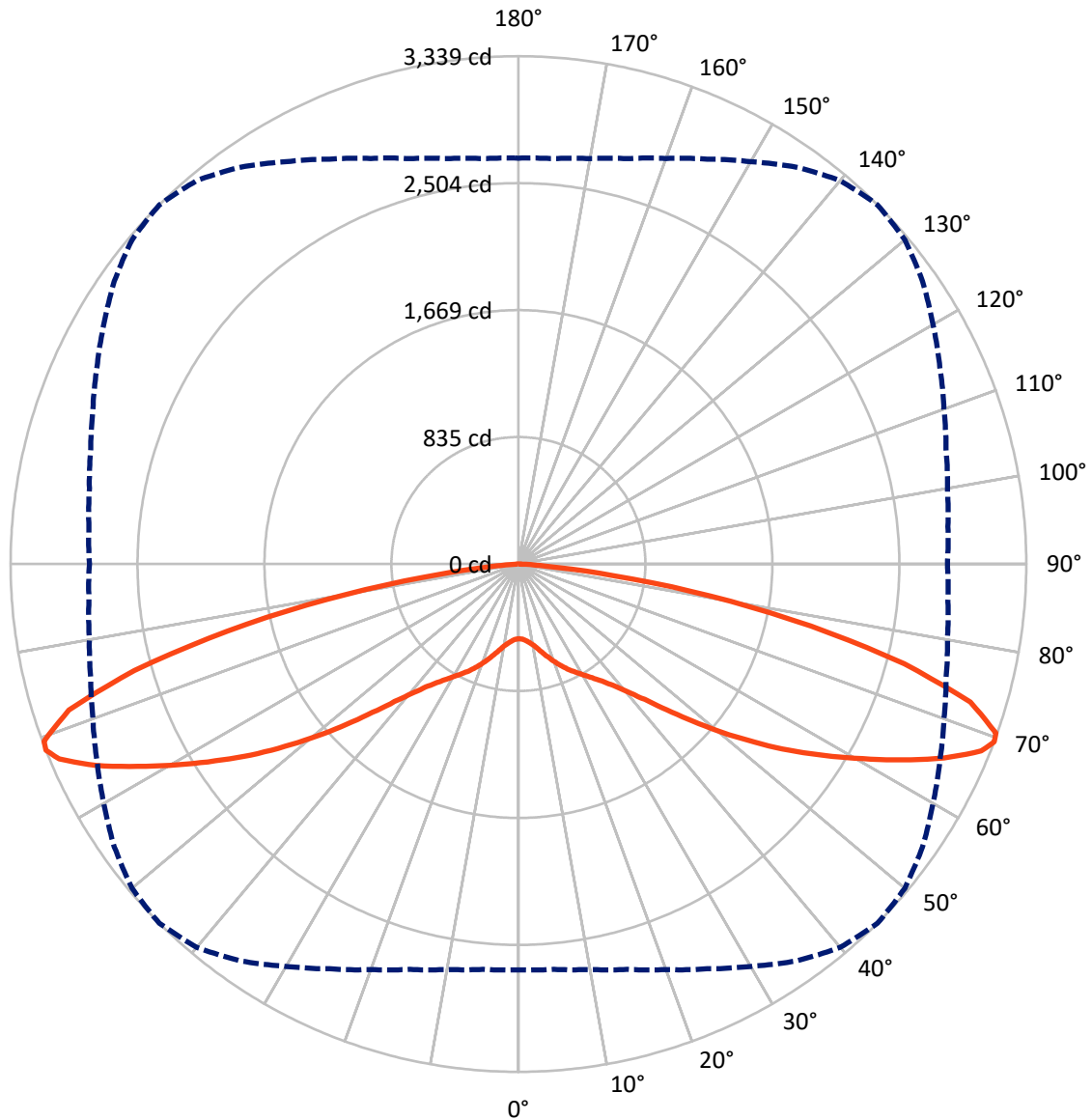
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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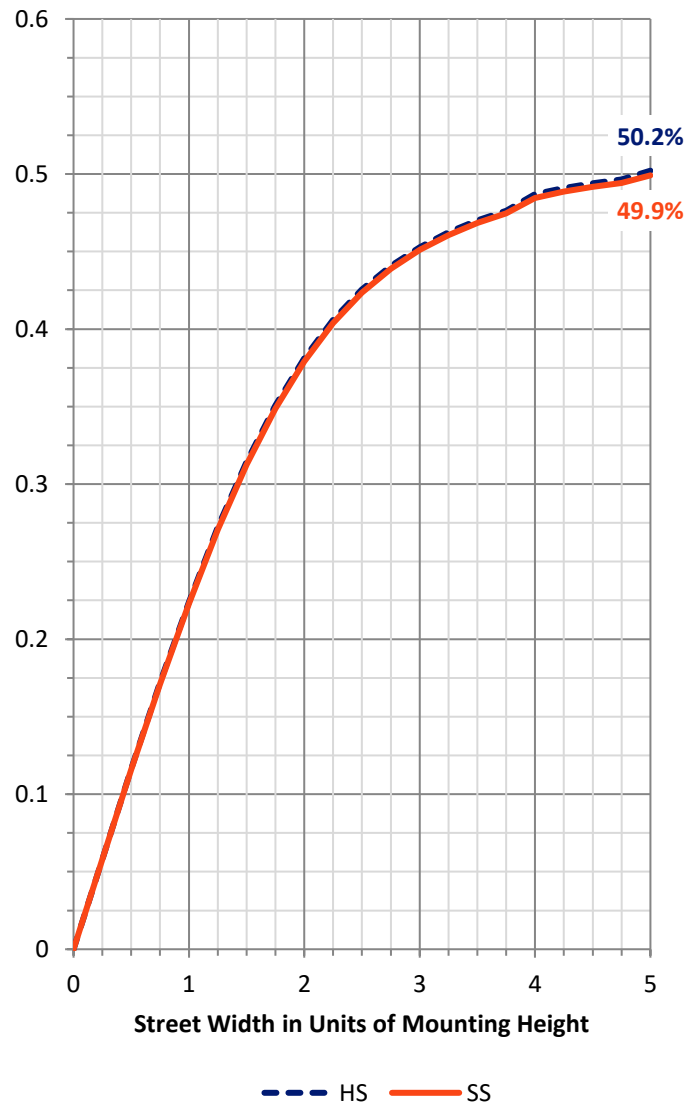
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4731.2	0.0	4731.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4731.2	0.0	4731.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9462.4	0.0	9462.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.3	0.5
10°-20°	174.2	1.8
20°-30°	352.8	3.7
30°-40°	591.5	6.3
40°-50°	1043.3	11.0
50°-60°	1839.9	19.4
60°-70°	2809.0	29.7
70°-80°	2347.2	24.8
80°-90°	255.0	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°	9462.4	100.0
0°-180°	9462.4	100.0



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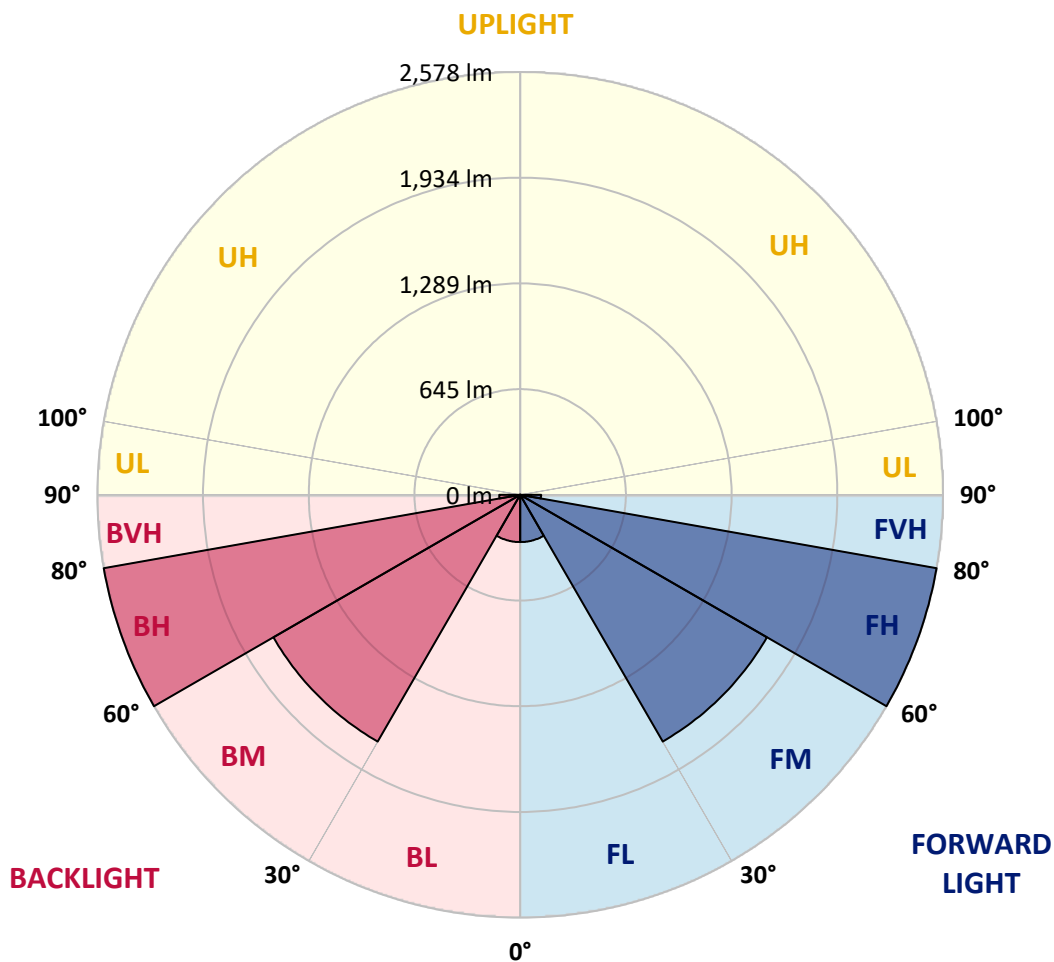
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	288.2	3.0			
FM	(30°-60°)	1737.4	18.4			
FH	(60°-80°)	2578.1	27.2			G2/5000
FVH	(80°-90°)	127.5	1.3			G2/225
BL	(0°-30°)	288.2	3.0	B1/500		
BM	(30°-60°)	1737.4	18.4	B2/2500		
BH	(60°-80°)	2578.1	27.2	B4/5000		G2/5000
BVH	(80°-90°)	127.5	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°	491.4	491.4	491.4	491.4	491.4	491.4	491.4	491.4	491.4	491.4	491.4
2.5°	495.3	496.3	495.3	495.3	495.3	495.3	495.3	494.4	494.4	494.4	495.3
5°	505.2	506.2	505.2	506.2	506.2	506.2	506.2	505.2	505.2	505.2	505.2
7.5°	521.1	521.1	521.1	522.1	521.1	521.1	522.1	521.1	521.1	521.1	521.1
10°	543.9	542.9	542.9	542.9	542.9	542.9	543.9	543.9	543.9	542.9	542.9
12.5°	571.6	570.6	571.6	571.6	572.6	572.6	572.6	572.6	572.6	572.6	571.6
15°	605.3	605.3	605.3	606.3	608.3	608.3	607.3	608.3	608.3	608.3	608.3
17.5°	643.0	644.9	643.0	643.9	644.9	643.9	645.9	646.9	647.9	646.9	643.9
20°	681.6	682.6	682.6	682.6	682.6	684.6	685.6	685.6	688.5	687.5	686.5
22.5°	718.2	720.2	720.2	721.2	721.2	724.2	724.2	724.2	726.2	728.2	726.2
25°	756.9	755.9	755.9	757.9	758.9	762.8	762.8	764.8	767.8	768.8	766.8
27.5°	791.6	790.6	790.6	793.5	794.5	799.5	799.5	803.4	805.4	806.4	804.4
30°	828.2	828.2	827.2	830.2	833.2	837.1	839.1	843.1	846.0	847.0	845.1
32.5°	871.8	869.8	870.8	872.8	874.8	878.7	881.7	886.7	890.6	891.6	889.6
35°	921.3	918.4	919.4	921.3	924.3	930.3	935.2	938.2	944.1	946.1	942.1
37.5°	975.8	976.8	975.8	980.8	985.7	992.7	998.6	1002.6	1008.5	1011.5	1008.5
40°	1053.1	1050.1	1053.1	1058.1	1066.0	1074.9	1086.8	1089.8	1095.7	1101.6	1094.7
42.5°	1153.2	1151.2	1158.1	1162.1	1171.0	1180.9	1195.8	1203.7	1212.6	1216.6	1210.6
45°	1283.9	1283.9	1291.9	1292.8	1306.7	1319.6	1340.4	1350.3	1367.1	1367.1	1367.1
47.5°	1428.6	1434.5	1439.5	1449.4	1459.3	1483.1	1503.9	1525.7	1541.5	1543.5	1540.5
50°	1578.2	1584.1	1599.0	1612.8	1634.6	1664.3	1687.1	1715.9	1729.7	1741.6	1737.7
52.5°	1743.6	1744.6	1762.4	1780.3	1812.0	1844.7	1881.3	1911.0	1935.8	1946.7	1937.8
55°	1924.9	1926.9	1942.7	1961.6	1997.2	2034.9	2080.4	2111.1	2142.8	2162.7	2147.8
57.5°	2121.1	2122.0	2137.9	2160.7	2203.3	2240.9	2284.5	2328.1	2357.8	2375.7	2365.8
60°	2338.0	2343.0	2354.9	2383.6	2424.2	2463.8	2507.4	2546.1	2580.7	2599.6	2589.6
62.5°	2569.8	2574.8	2591.6	2614.4	2650.1	2693.7	2735.3	2784.8	2813.5	2834.3	2819.5
65°	2725.4	2734.3	2761.0	2791.7	2844.3	2900.7	2949.3	3016.6	3051.3	3076.1	3062.2
67.5°	2735.3	2740.2	2772.9	2819.5	2889.8	2975.0	3074.1	3179.1	3247.5	3280.2	3256.4
69°	2667.9	2674.8	2706.5	2759.1	2837.3	2936.4	3054.3	3185.0	3290.1	3338.6	3315.8
70°	2591.6	2606.5	2641.2	2698.6	2774.9	2878.9	3000.8	3140.5	3263.3	3329.7	3312.8
72.5°	2431.1	2435.1	2457.9	2503.5	2561.9	2648.1	2763.0	2894.8	3011.7	3106.8	3120.7
75°	2157.7	2170.6	2187.4	2218.1	2247.9	2310.3	2387.5	2477.7	2546.1	2619.4	2622.3
77.5°	1630.7	1669.3	1682.2	1689.1	1702.0	1751.5	1818.9	1897.2	1953.6	1965.5	1963.5
80°	732.1	783.6	795.5	852.0	886.7	968.9	1071.9	1191.8	1272.0	1281.0	1259.2
82.5°	143.6	153.6	179.3	223.9	305.1	353.7	421.0	505.2	582.5	627.1	600.4
85°	47.6	50.5	58.5	64.4	74.3	84.2	102.0	126.8	157.5	174.4	155.5
87.5°	18.8	18.8	21.8	23.8	25.8	25.8	25.8	23.8	22.8	18.8	16.8
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°	491.4	491.4	491.4	491.4	491.4	491.4	491.4	491.4
2.5°	494.4	494.4	494.4	494.4	494.4	494.4	494.4	494.4
5°	505.2	504.3	504.3	503.3	503.3	503.3	503.3	503.3
7.5°	520.1	519.1	518.1	519.1	518.1	518.1	518.1	518.1
10°	542.9	540.9	539.9	538.9	538.9	538.9	537.9	537.9
12.5°	569.6	569.6	568.7	567.7	565.7	566.7	565.7	563.7
15°	606.3	604.3	603.3	602.3	600.4	600.4	600.4	599.4
17.5°	643.0	641.0	641.0	638.0	637.0	637.0	637.0	638.0
20°	683.6	680.6	678.6	676.6	674.7	675.6	673.7	675.6
22.5°	724.2	720.2	718.2	715.3	712.3	712.3	711.3	709.3
25°	763.8	758.9	756.9	753.9	749.9	749.9	748.0	746.0
27.5°	801.5	796.5	794.5	788.6	784.6	783.6	781.6	780.7
30°	843.1	837.1	834.2	828.2	822.3	821.3	818.3	818.3
32.5°	886.7	880.7	878.7	869.8	864.9	864.9	862.9	860.9
35°	941.1	932.2	930.3	921.3	914.4	914.4	912.4	913.4
37.5°	1005.5	998.6	991.7	984.7	976.8	975.8	973.8	971.9
40°	1091.7	1083.8	1075.9	1066.0	1059.0	1057.1	1054.1	1053.1
42.5°	1206.7	1198.7	1182.9	1175.0	1168.0	1162.1	1161.1	1160.1
45°	1353.3	1343.4	1332.5	1317.6	1308.7	1295.8	1293.8	1288.9
47.5°	1529.6	1510.8	1492.0	1479.1	1465.2	1450.4	1447.4	1439.5
50°	1716.9	1702.0	1670.3	1649.5	1627.7	1612.8	1602.9	1600.0
52.5°	1918.0	1890.2	1858.5	1830.8	1799.1	1779.3	1761.4	1756.5
55°	2128.0	2088.4	2048.7	2016.0	1984.3	1960.6	1943.7	1935.8
57.5°	2338.0	2294.4	2250.8	2215.2	2188.4	2157.7	2140.9	2136.9
60°	2557.0	2515.3	2470.8	2435.1	2402.4	2375.7	2365.8	2346.9
62.5°	2788.8	2745.2	2703.6	2668.9	2627.3	2608.5	2591.6	2580.7
65°	3016.6	2966.1	2913.6	2876.9	2835.3	2808.6	2787.8	2772.9
67.5°	3193.0	3116.7	3046.4	2984.9	2928.5	2886.9	2860.1	2846.2
69°	3242.5	3147.4	3057.3	2977.0	2910.6	2864.1	2834.3	2820.5
70°	3236.6	3131.6	3032.5	2944.3	2872.0	2822.5	2793.7	2768.0
72.5°	3053.3	2957.2	2847.2	2751.1	2685.7	2638.2	2609.5	2595.6
75°	2605.5	2541.1	2461.8	2387.5	2340.0	2312.3	2276.6	2277.6
77.5°	1897.2	1899.1	1845.6	1769.4	1715.9	1706.0	1690.1	1674.3
80°	1176.9	1082.8	1021.4	939.2	878.7	826.2	803.4	753.9
82.5°	542.9	424.0	328.9	248.7	191.2	149.6	130.8	107.0
85°	120.9	92.1	76.3	61.4	52.5	48.5	39.6	36.7
87.5°	16.8	14.9	13.9	12.9	10.9	7.9	5.9	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)