

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: P180148

Luminaire Tested: **ICS-E04-LED-E1-5WQ**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180148  
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-E04-LED-E1-5WQ  
Description: ICON SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (84) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11462.3 lumens  
Efficiency: N/A  
Efficacy: 117.9 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

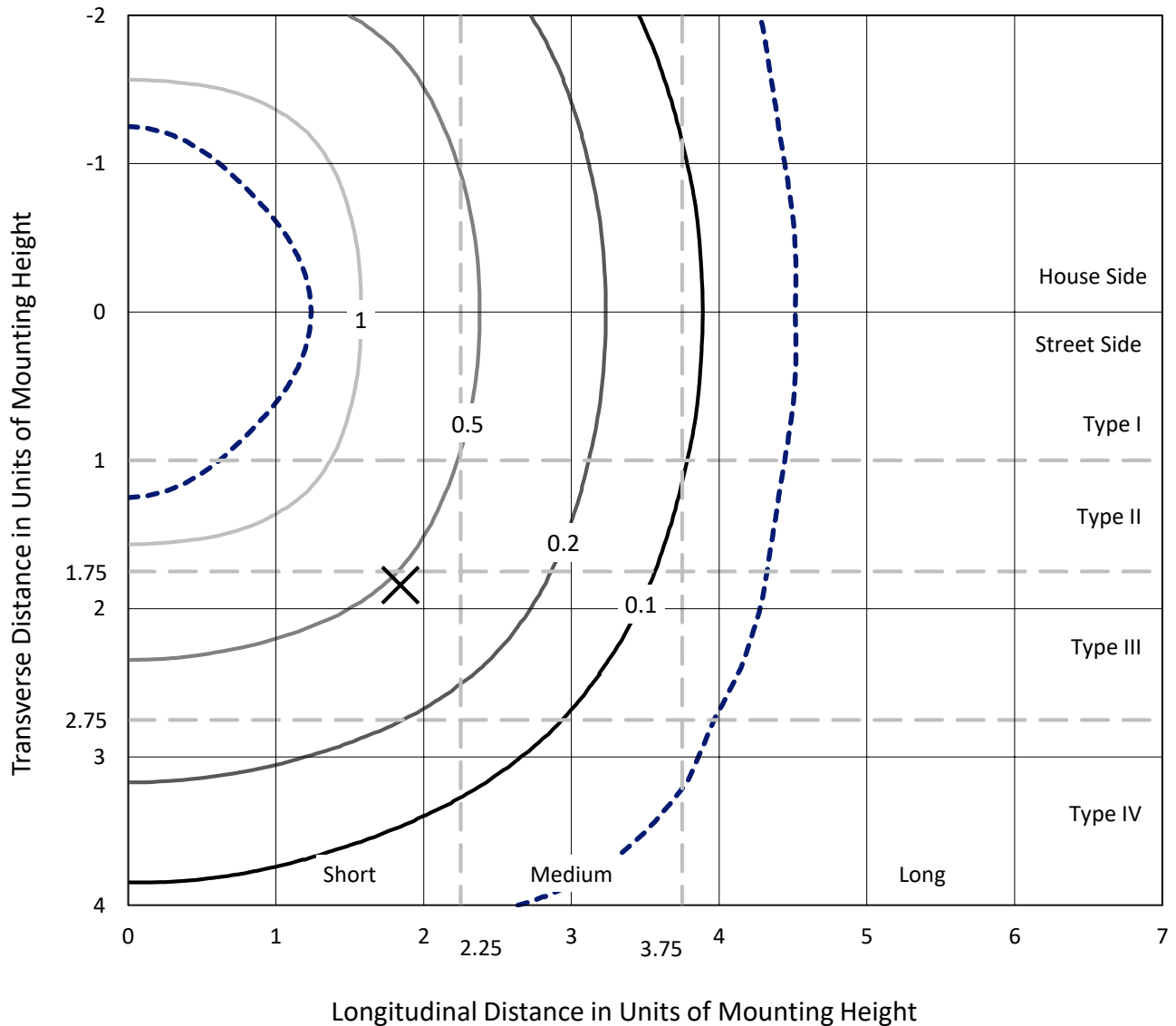
Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P180148  
 CATALOG NUMBER: ICS-E04-LED-E1-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

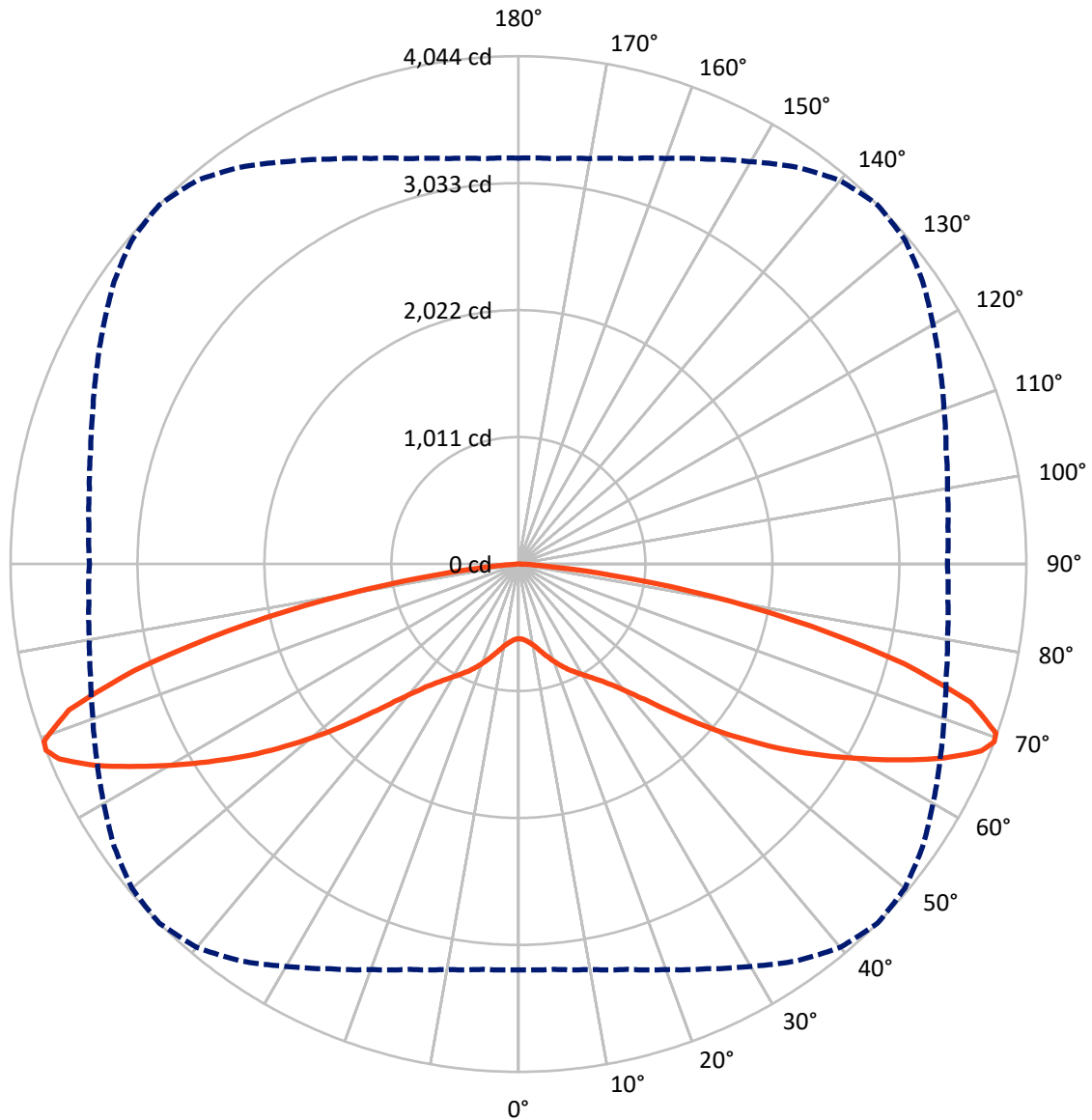


Based on 20 foot mounting height. Maximum calculated value = 1.7 fc  
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P180148

CATALOG NUMBER: ICS-E04-LED-E1-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P180148

CATALOG NUMBER: ICS-E04-LED-E1-5WQ

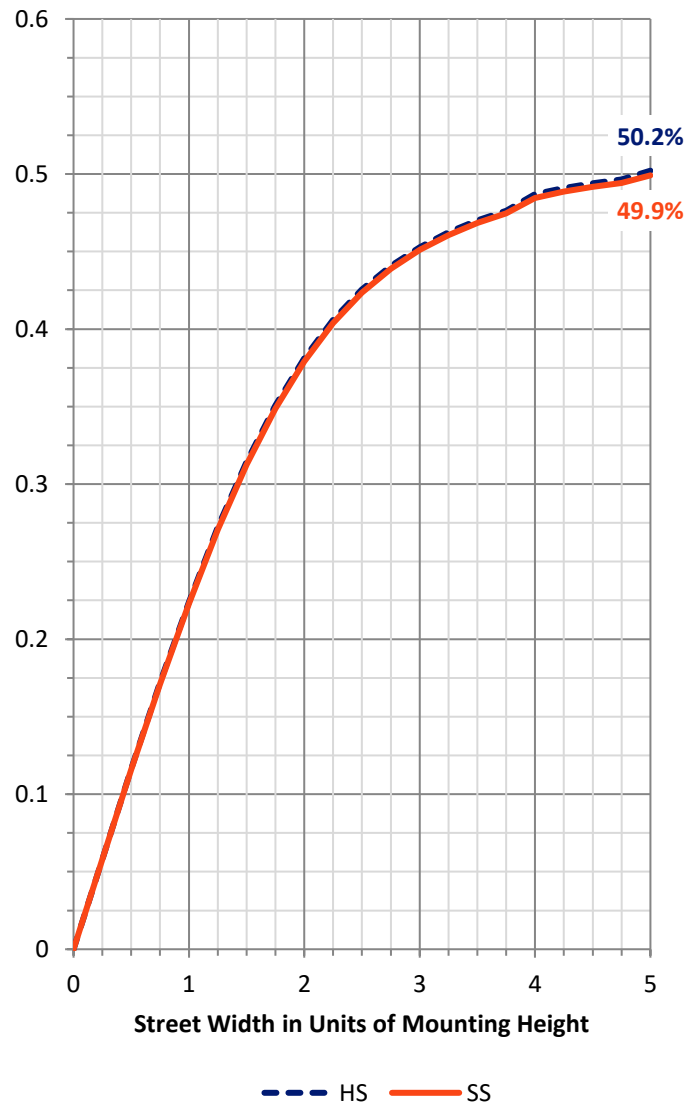
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5731.2	0.0	5731.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5731.2	0.0	5731.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11462.3	0.0	11462.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.8	0.5
10°-20°	211.0	1.8
20°-30°	427.4	3.7
30°-40°	716.5	6.3
40°-50°	1263.9	11.0
50°-60°	2228.8	19.4
60°-70°	3402.7	29.7
70°-80°	2843.3	24.8
80°-90°	308.9	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°	11462.3	100.0
0°-180°	11462.3	100.0



REPORT NUMBER: P180148

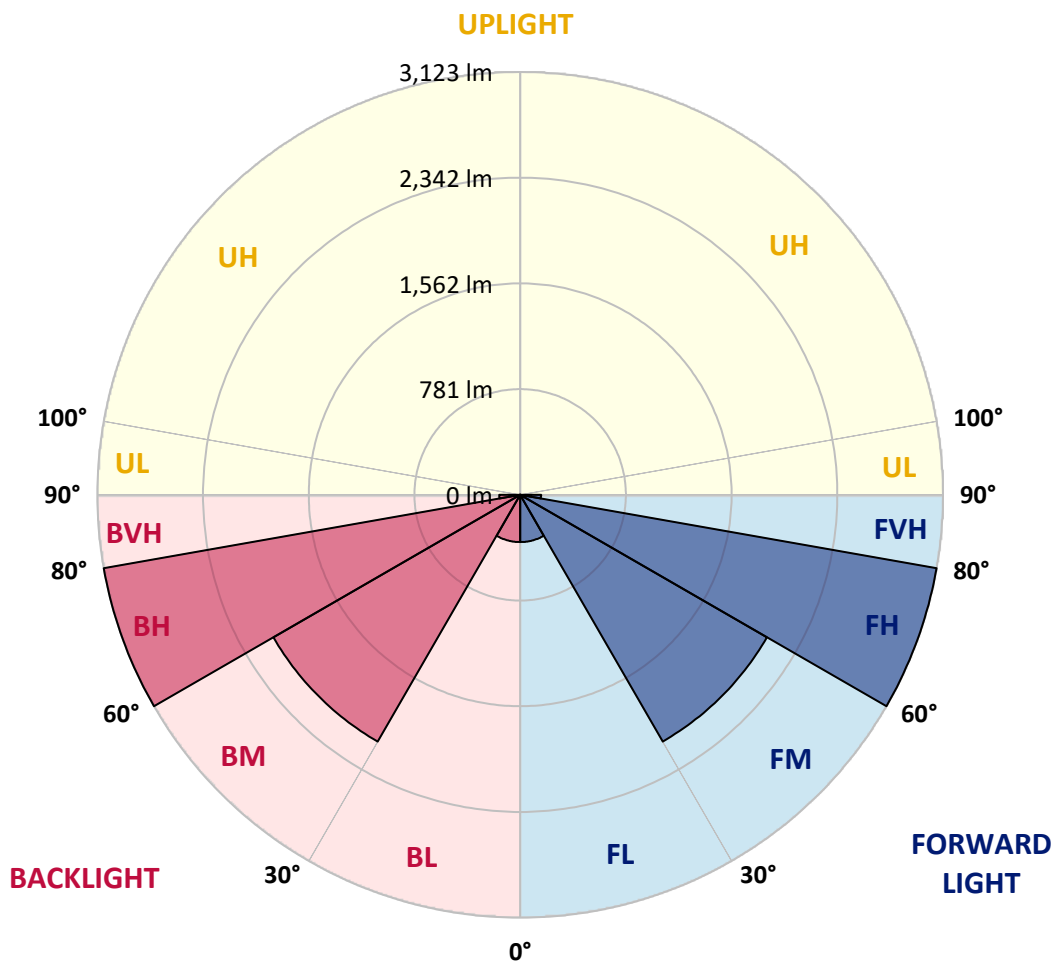
CATALOG NUMBER: ICS-E04-LED-E1-5WQ

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	349.1	3.0			
FM	(30°-60°)	2104.6	18.4			
FH	(60°-80°)	3123.0	27.2			G2/5000
FVH	(80°-90°)	154.5	1.3			G2/225
BL	(0°-30°)	349.1	3.0	B1/500		
BM	(30°-60°)	2104.6	18.4	B2/2500		
BH	(60°-80°)	3123.0	27.2	B4/5000		G2/5000
BVH	(80°-90°)	154.5	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





REPORT NUMBER: P180148

CATALOG NUMBER: ICS-E04-LED-E1-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2
2.5°	600.0	601.2	600.0	600.0	600.0	600.0	600.0	598.8	598.8	598.8	600.0
5°	612.0	613.2	612.0	613.2	613.2	613.2	613.2	612.0	612.0	612.0	612.0
7.5°	631.2	631.2	631.2	632.4	631.2	631.2	632.4	631.2	631.2	631.2	631.2
10°	658.8	657.6	657.6	657.6	657.6	657.6	658.8	658.8	658.8	657.6	657.6
12.5°	692.4	691.2	692.4	692.4	693.6	693.6	693.6	693.6	693.6	693.6	692.4
15°	733.2	733.2	733.2	734.4	736.8	736.8	735.6	736.8	736.8	736.8	736.8
17.5°	778.8	781.2	778.8	780.0	781.2	780.0	782.4	783.6	784.8	783.6	780.0
20°	825.6	826.8	826.8	826.8	826.8	829.2	830.4	830.4	834.0	832.8	831.6
22.5°	870.0	872.4	872.4	873.6	873.6	877.2	877.2	877.2	879.6	882.0	879.6
25°	916.8	915.6	915.6	918.0	919.2	924.1	924.1	926.5	930.1	931.3	928.9
27.5°	958.9	957.7	957.7	961.3	962.5	968.5	968.5	973.3	975.7	976.9	974.5
30°	1003.3	1003.3	1002.1	1005.7	1009.3	1014.1	1016.5	1021.3	1024.9	1026.1	1023.7
32.5°	1056.1	1053.7	1054.9	1057.3	1059.7	1064.5	1068.1	1074.1	1078.9	1080.1	1077.7
35°	1116.1	1112.5	1113.7	1116.1	1119.7	1126.9	1132.9	1136.5	1143.7	1146.1	1141.3
37.5°	1182.1	1183.3	1182.1	1188.1	1194.1	1202.5	1209.7	1214.5	1221.7	1225.3	1221.7
40°	1275.7	1272.1	1275.7	1281.7	1291.3	1302.1	1316.5	1320.1	1327.3	1334.5	1326.1
42.5°	1396.9	1394.5	1402.9	1407.7	1418.5	1430.5	1448.5	1458.1	1468.9	1473.7	1466.5
45°	1555.3	1555.3	1564.9	1566.1	1582.9	1598.5	1623.7	1635.7	1656.1	1656.1	1656.1
47.5°	1730.5	1737.7	1743.7	1755.7	1767.7	1796.5	1821.7	1848.1	1867.3	1869.7	1866.1
50°	1911.7	1918.9	1936.9	1953.7	1980.1	2016.1	2043.7	2078.5	2095.3	2109.7	2104.9
52.5°	2112.1	2113.3	2134.9	2156.5	2194.9	2234.5	2278.9	2314.9	2344.9	2358.1	2347.3
55°	2331.7	2334.1	2353.3	2376.1	2419.3	2464.9	2520.1	2557.3	2595.7	2619.7	2601.7
57.5°	2569.3	2570.5	2589.7	2617.3	2668.9	2714.5	2767.4	2820.2	2856.2	2877.8	2865.8
60°	2832.2	2838.2	2852.6	2887.4	2936.6	2984.6	3037.4	3084.2	3126.2	3149.0	3137.0
62.5°	3113.0	3119.0	3139.4	3167.0	3210.2	3263.0	3313.4	3373.4	3408.2	3433.4	3415.4
65°	3301.4	3312.2	3344.6	3381.8	3445.4	3513.8	3572.6	3654.2	3696.2	3726.2	3709.4
67.5°	3313.4	3319.4	3359.0	3415.4	3500.6	3603.8	3723.8	3851.0	3933.8	3973.4	3944.6
69°	3231.8	3240.2	3278.6	3342.2	3437.0	3557.0	3699.8	3858.2	3985.4	4044.2	4016.6
70°	3139.4	3157.4	3199.4	3269.0	3361.4	3487.4	3635.0	3804.2	3953.0	4033.4	4013.0
72.5°	2945.0	2949.8	2977.4	3032.6	3103.4	3207.8	3347.0	3506.6	3648.2	3763.4	3780.2
75°	2613.7	2629.3	2649.7	2686.9	2722.9	2798.6	2892.2	3001.4	3084.2	3173.0	3176.6
77.5°	1975.3	2022.1	2037.7	2046.1	2061.7	2121.7	2203.3	2298.1	2366.5	2380.9	2378.5
80°	886.8	949.3	963.7	1032.1	1074.1	1173.7	1298.5	1443.7	1540.9	1551.7	1525.3
82.5°	174.0	186.0	217.2	271.2	369.6	428.4	510.0	612.0	705.6	759.6	727.2
85°	57.6	61.2	70.8	78.0	90.0	102.0	123.6	153.6	190.8	211.2	188.4
87.5°	22.8	22.8	26.4	28.8	31.2	31.2	31.2	28.8	27.6	22.8	20.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P180148

CATALOG NUMBER: ICS-E04-LED-E1-5WQ

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2
2.5°	598.8	598.8	598.8	598.8	598.8	598.8	598.8	598.8
5°	612.0	610.8	610.8	609.6	609.6	609.6	609.6	609.6
7.5°	630.0	628.8	627.6	628.8	627.6	627.6	627.6	627.6
10°	657.6	655.2	654.0	652.8	652.8	652.8	651.6	651.6
12.5°	690.0	690.0	688.8	687.6	685.2	686.4	685.2	682.8
15°	734.4	732.0	730.8	729.6	727.2	727.2	727.2	726.0
17.5°	778.8	776.4	776.4	772.8	771.6	771.6	771.6	772.8
20°	828.0	824.4	822.0	819.6	817.2	818.4	816.0	818.4
22.5°	877.2	872.4	870.0	866.4	862.8	862.8	861.6	859.2
25°	925.3	919.2	916.8	913.2	908.4	908.4	906.0	903.6
27.5°	970.9	964.9	962.5	955.3	950.5	949.3	946.9	945.7
30°	1021.3	1014.1	1010.5	1003.3	996.1	994.9	991.3	991.3
32.5°	1074.1	1066.9	1064.5	1053.7	1047.7	1047.7	1045.3	1042.9
35°	1140.1	1129.3	1126.9	1116.1	1107.7	1107.7	1105.3	1106.5
37.5°	1218.1	1209.7	1201.3	1192.9	1183.3	1182.1	1179.7	1177.3
40°	1322.5	1312.9	1303.3	1291.3	1282.9	1280.5	1276.9	1275.7
42.5°	1461.7	1452.1	1432.9	1423.3	1414.9	1407.7	1406.5	1405.3
45°	1639.3	1627.3	1614.1	1596.1	1585.3	1569.7	1567.3	1561.3
47.5°	1852.9	1830.1	1807.3	1791.7	1774.9	1756.9	1753.3	1743.7
50°	2079.7	2061.7	2023.3	1998.1	1971.7	1953.7	1941.7	1938.1
52.5°	2323.3	2289.7	2251.3	2217.7	2179.3	2155.3	2133.7	2127.7
55°	2577.7	2529.7	2481.7	2442.1	2403.7	2374.9	2354.5	2344.9
57.5°	2832.2	2779.4	2726.5	2683.3	2650.9	2613.7	2593.3	2588.5
60°	3097.4	3047.0	2993.0	2949.8	2910.2	2877.8	2865.8	2843.0
62.5°	3378.2	3325.4	3275.0	3233.0	3182.6	3159.8	3139.4	3126.2
65°	3654.2	3593.0	3529.4	3485.0	3434.6	3402.2	3377.0	3359.0
67.5°	3867.8	3775.4	3690.2	3615.8	3547.4	3497.0	3464.6	3447.8
69°	3927.8	3812.6	3703.4	3606.2	3525.8	3469.4	3433.4	3416.6
70°	3920.6	3793.4	3673.4	3566.6	3479.0	3419.0	3384.2	3353.0
72.5°	3698.6	3582.2	3449.0	3332.6	3253.4	3195.8	3161.0	3144.2
75°	3156.2	3078.2	2982.2	2892.2	2834.6	2801.0	2757.8	2759.0
77.5°	2298.1	2300.5	2235.7	2143.3	2078.5	2066.5	2047.3	2028.1
80°	1425.7	1311.7	1237.3	1137.7	1064.5	1000.9	973.3	913.2
82.5°	657.6	513.6	398.4	301.2	231.6	181.2	158.4	129.6
85°	146.4	111.6	92.4	74.4	63.6	58.8	48.0	44.4
87.5°	20.4	18.0	16.8	15.6	13.2	9.6	7.2	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)