

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: P180086

Luminaire Tested: **ICM-E04-LED-E1-5WQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180086
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: ICM-E04-LED-E1-5WQ-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9998.6 lumens
Efficiency: N/A
Efficacy: 102.9 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

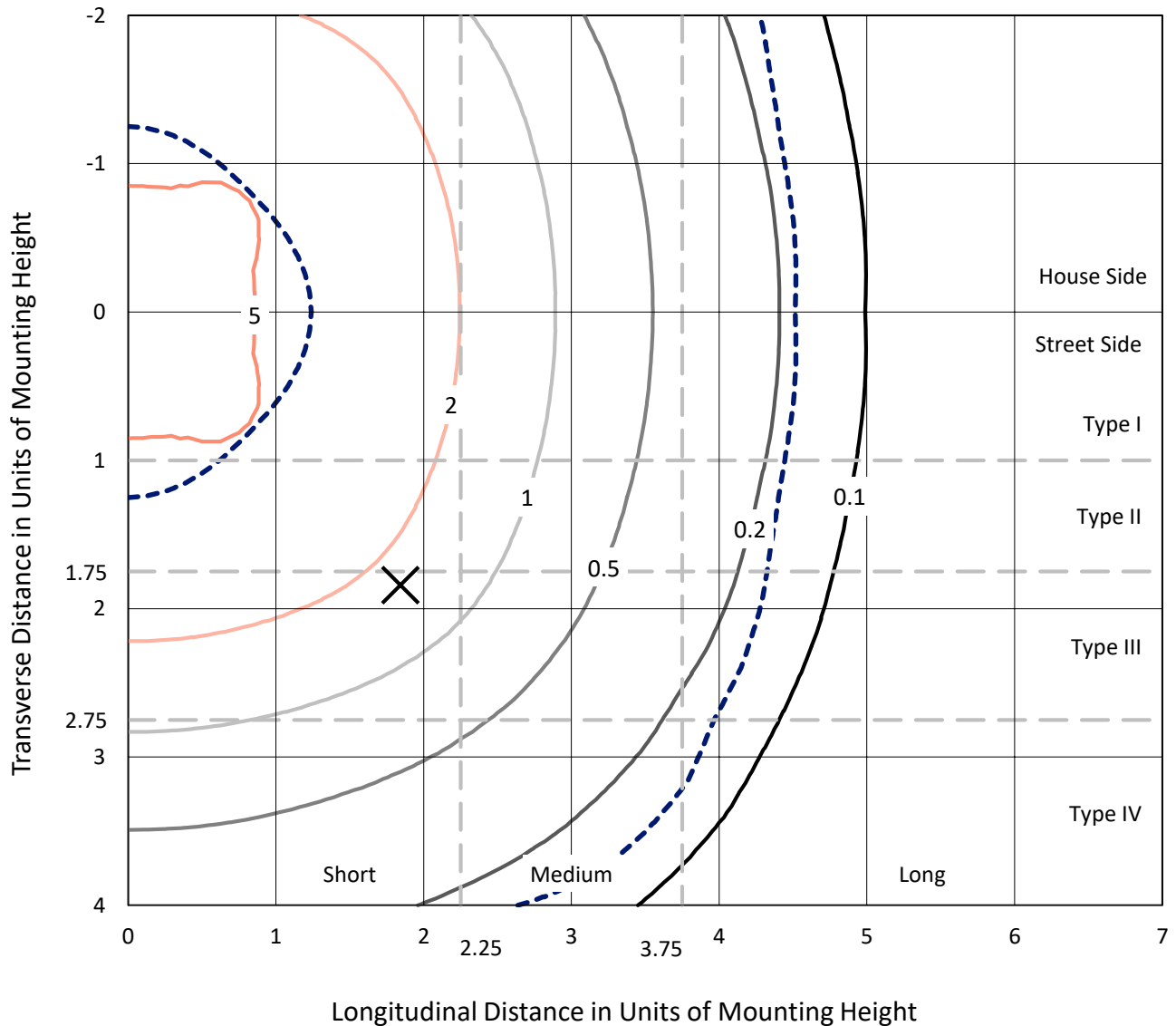
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

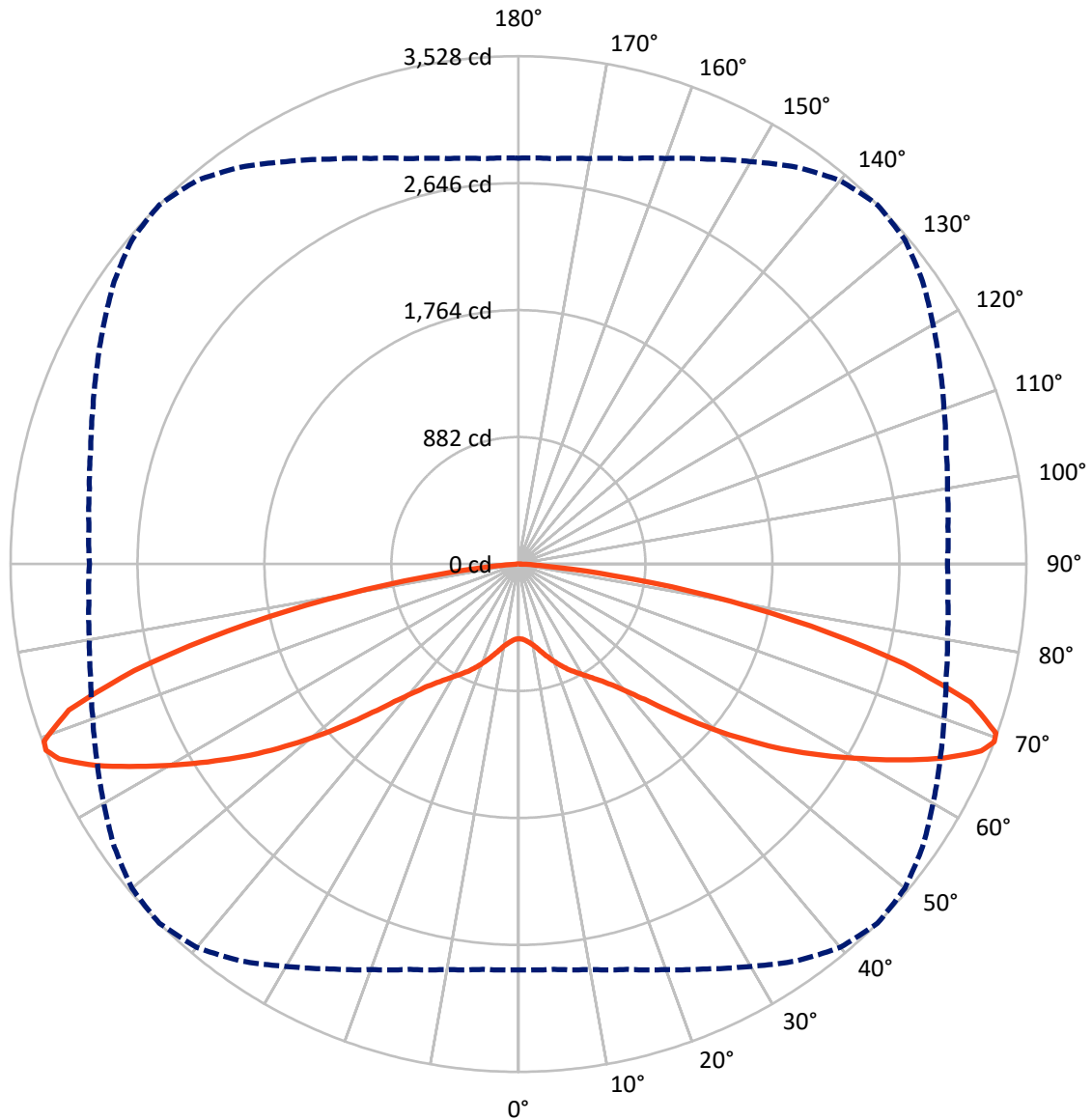
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 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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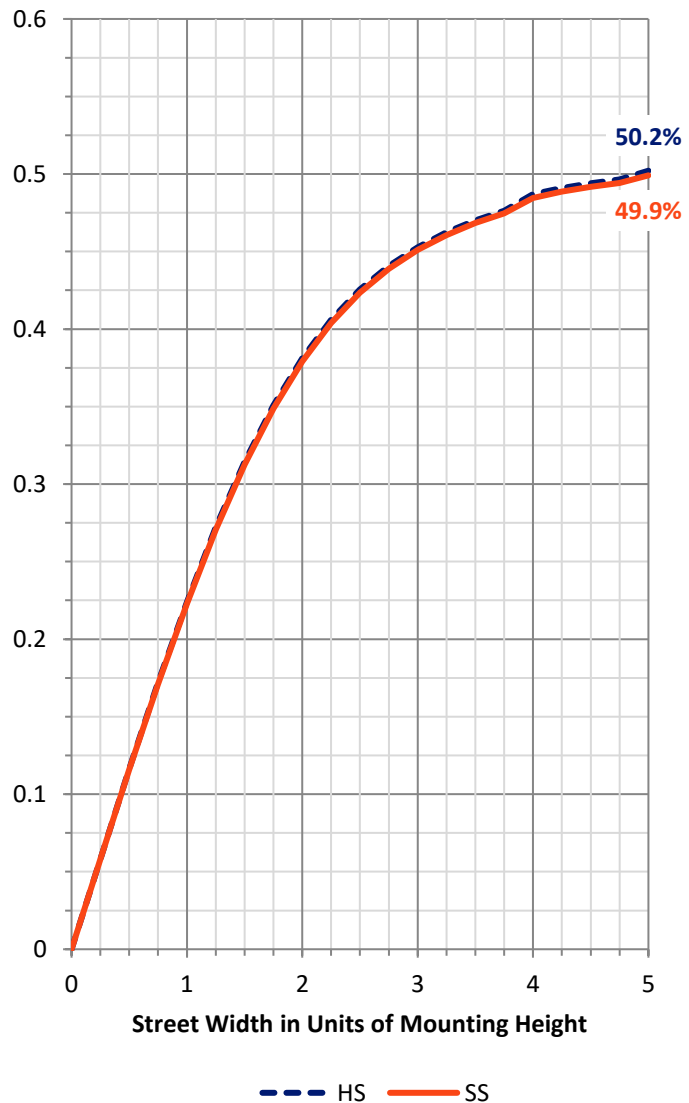
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4999.3	0.0	4999.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4999.3	0.0	4999.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	9998.6	0.0	9998.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	0.5
10°-20°	184.1	1.8
20°-30°	372.8	3.7
30°-40°	625.0	6.3
40°-50°	1102.5	11.0
50°-60°	1944.2	19.4
60°-70°	2968.2	29.7
70°-80°	2480.2	24.8
80°-90°	269.5	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°	9998.6	100.0
0°-180°	9998.6	100.0



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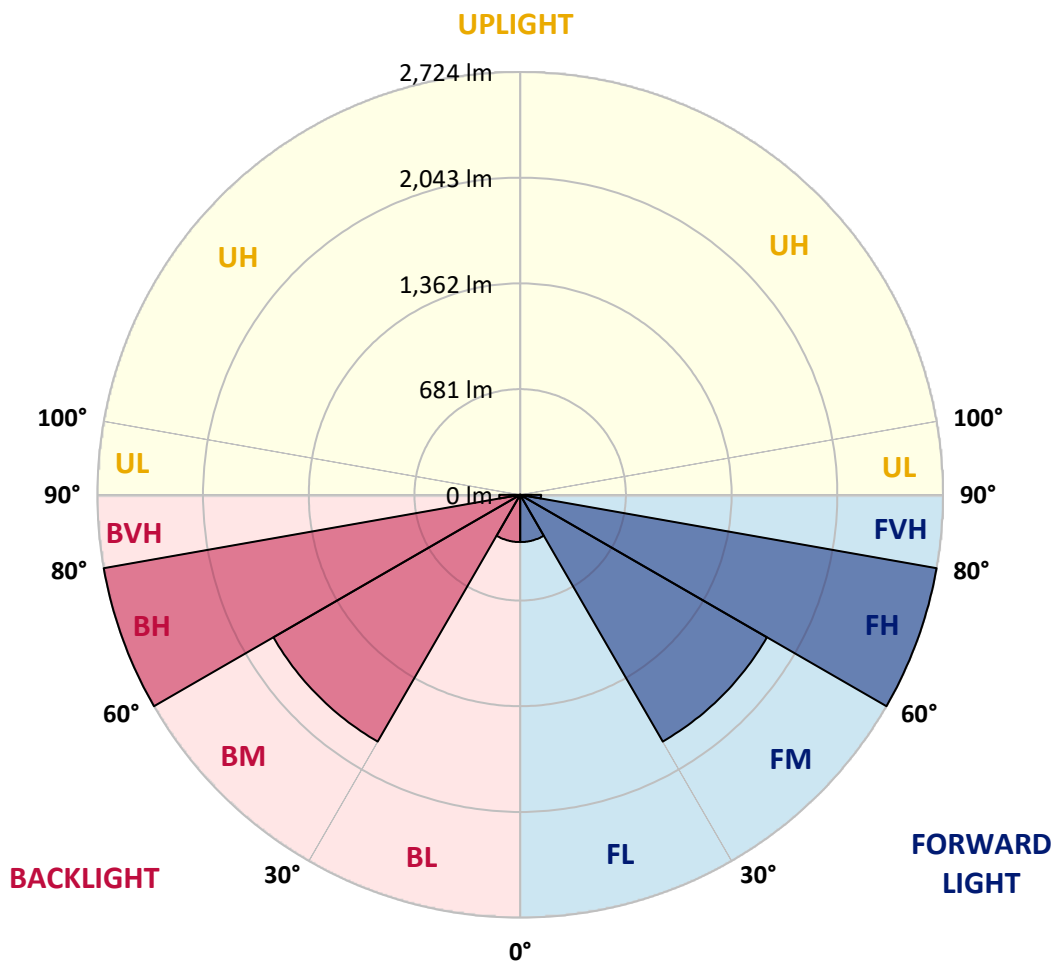
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	304.5	3.0			
FM	(30°-60°)	1835.8	18.4			
FH	(60°-80°)	2724.2	27.2			G2/5000
FVH	(80°-90°)	134.8	1.3			G2/225
BL	(0°-30°)	304.5	3.0	B1/500		
BM	(30°-60°)	1835.8	18.4	B2/2500		
BH	(60°-80°)	2724.2	27.2	B4/5000		G2/5000
BVH	(80°-90°)	134.8	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°	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3
2.5°	523.4	524.5	523.4	523.4	523.4	523.4	523.4	522.3	522.3	522.3	523.4
5°	533.9	534.9	533.9	534.9	534.9	534.9	534.9	533.9	533.9	533.9	533.9
7.5°	550.6	550.6	550.6	551.6	550.6	550.6	551.6	550.6	550.6	550.6	550.6
10°	574.7	573.7	573.7	573.7	573.7	573.7	574.7	574.7	574.7	573.7	573.7
12.5°	604.0	603.0	604.0	604.0	605.0	605.0	605.0	605.0	605.0	605.0	604.0
15°	639.6	639.6	639.6	640.7	642.7	642.7	641.7	642.7	642.7	642.7	642.7
17.5°	679.4	681.5	679.4	680.5	681.5	680.5	682.5	683.5	684.7	683.5	680.5
20°	720.2	721.2	721.2	721.2	721.2	723.4	724.4	724.4	727.5	726.5	725.4
22.5°	759.0	761.0	761.0	762.1	762.1	765.2	765.2	765.2	767.4	769.4	767.4
25°	799.7	798.7	798.7	800.8	801.9	806.1	806.1	808.1	811.3	812.3	810.2
27.5°	836.4	835.4	835.4	838.5	839.5	844.7	844.7	848.9	851.1	852.1	850.1
30°	875.2	875.2	874.1	877.2	880.4	884.6	886.6	890.8	894.0	895.0	892.9
32.5°	921.2	919.1	920.2	922.2	924.4	928.6	931.6	936.9	941.1	942.1	940.0
35°	973.5	970.4	971.4	973.5	976.7	983.0	988.2	991.4	997.6	999.7	995.5
37.5°	1031.1	1032.2	1031.1	1036.4	1041.6	1048.9	1055.2	1059.4	1065.7	1068.8	1065.7
40°	1112.8	1109.6	1112.8	1118.0	1126.3	1135.8	1148.4	1151.5	1157.8	1164.1	1156.8
42.5°	1218.5	1216.4	1223.7	1227.9	1237.3	1247.8	1263.5	1271.9	1281.3	1285.5	1279.2
45°	1356.7	1356.7	1365.0	1366.1	1380.8	1394.3	1416.4	1426.8	1444.6	1444.6	1444.6
47.5°	1509.5	1515.8	1521.0	1531.5	1542.0	1567.1	1589.0	1612.1	1628.8	1631.0	1627.8
50°	1667.5	1673.9	1689.6	1704.2	1727.3	1758.6	1782.7	1813.1	1827.7	1840.3	1836.1
52.5°	1842.4	1843.5	1862.2	1881.1	1914.6	1949.1	1987.9	2019.3	2045.5	2057.0	2047.5
55°	2034.0	2036.0	2052.8	2072.7	2110.3	2150.2	2198.3	2230.8	2264.3	2285.2	2269.5
57.5°	2241.2	2242.2	2259.0	2283.1	2328.1	2367.9	2414.0	2460.0	2491.5	2510.2	2499.8
60°	2470.5	2475.7	2488.3	2518.6	2561.6	2603.5	2649.5	2690.3	2727.0	2746.8	2736.4
62.5°	2715.5	2720.7	2738.4	2762.5	2800.2	2846.2	2890.3	2942.6	2972.9	2994.9	2979.3
65°	2879.8	2889.2	2917.5	2950.0	3005.4	3065.0	3116.4	3187.6	3224.2	3250.3	3235.7
67.5°	2890.3	2895.5	2930.1	2979.3	3053.6	3143.6	3248.3	3359.3	3431.5	3466.0	3440.9
69°	2819.1	2826.4	2859.9	2915.4	2998.1	3102.8	3227.4	3365.5	3476.5	3527.7	3503.7
70°	2738.4	2754.2	2790.8	2851.6	2932.1	3042.1	3170.8	3318.4	3448.2	3518.3	3500.6
72.5°	2568.9	2573.0	2597.1	2645.3	2707.1	2798.2	2919.6	3058.8	3182.3	3282.8	3297.5
75°	2279.9	2293.6	2311.4	2343.8	2375.3	2441.1	2522.8	2618.1	2690.3	2767.7	2770.9
77.5°	1723.1	1763.9	1777.5	1784.8	1798.4	1850.8	1922.0	2004.7	2064.3	2076.8	2074.8
80°	773.6	828.0	840.6	900.3	936.9	1023.8	1132.7	1259.4	1344.1	1353.5	1330.5
82.5°	151.8	162.2	189.5	236.6	322.4	373.7	444.9	533.9	615.5	662.6	634.3
85°	50.2	53.4	61.8	68.0	78.5	89.0	107.8	134.0	166.4	184.3	164.4
87.5°	19.9	19.9	23.1	25.1	27.3	27.3	27.3	25.1	24.1	19.9	17.8
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°	519.3	519.3	519.3	519.3	519.3	519.3	519.3	519.3
2.5°	522.3	522.3	522.3	522.3	522.3	522.3	522.3	522.3
5°	533.9	532.8	532.8	531.8	531.8	531.8	531.8	531.8
7.5°	549.6	548.6	547.4	548.6	547.4	547.4	547.4	547.4
10°	573.7	571.5	570.5	569.5	569.5	569.5	568.4	568.4
12.5°	602.0	602.0	600.8	599.8	597.8	598.8	597.8	595.6
15°	640.7	638.5	637.5	636.5	634.3	634.3	634.3	633.3
17.5°	679.4	677.3	677.3	674.1	673.1	673.1	673.1	674.1
20°	722.3	719.2	717.0	715.0	712.8	714.0	711.8	714.0
22.5°	765.2	761.0	759.0	755.8	752.7	752.7	751.6	749.5
25°	807.1	801.9	799.7	796.7	792.5	792.5	790.3	788.3
27.5°	846.9	841.7	839.5	833.3	829.1	828.0	826.0	824.9
30°	890.8	884.6	881.4	875.2	868.8	867.8	864.7	864.7
32.5°	936.9	930.6	928.6	919.1	913.9	913.9	911.8	909.7
35°	994.5	985.0	983.0	973.5	966.2	966.2	964.1	965.1
37.5°	1062.5	1055.2	1047.8	1040.6	1032.2	1031.1	1029.0	1026.9
40°	1153.6	1145.2	1136.8	1126.3	1119.1	1116.9	1113.8	1112.8
42.5°	1275.0	1266.6	1249.9	1241.5	1234.2	1227.9	1226.9	1225.9
45°	1430.0	1419.5	1408.0	1392.3	1382.8	1369.2	1367.2	1361.9
47.5°	1616.3	1596.4	1576.5	1562.9	1548.3	1532.6	1529.4	1521.0
50°	1814.2	1798.4	1764.9	1743.0	1719.9	1704.2	1693.8	1690.6
52.5°	2026.6	1997.3	1963.8	1934.5	1901.0	1880.1	1861.2	1856.0
55°	2248.6	2206.7	2164.9	2130.2	2096.8	2071.6	2053.9	2045.5
57.5°	2470.5	2424.4	2378.3	2340.7	2312.4	2279.9	2262.2	2258.0
60°	2701.9	2657.9	2610.8	2573.0	2538.5	2510.2	2499.8	2479.9
62.5°	2946.8	2900.8	2856.8	2820.1	2776.2	2756.3	2738.4	2727.0
65°	3187.6	3134.2	3078.7	3039.9	2996.0	2967.7	2945.8	2930.1
67.5°	3373.9	3293.3	3219.0	3154.1	3094.3	3050.4	3022.2	3007.5
69°	3426.3	3325.7	3230.4	3145.7	3075.6	3026.3	2994.9	2980.3
70°	3419.9	3309.0	3204.3	3111.2	3034.7	2982.3	2952.0	2924.8
72.5°	3226.3	3124.8	3008.6	2907.0	2837.9	2787.6	2757.3	2742.6
75°	2753.1	2685.0	2601.3	2522.8	2472.6	2443.3	2405.6	2406.6
77.5°	2004.7	2006.7	1950.2	1869.6	1813.1	1802.6	1785.9	1769.1
80°	1243.6	1144.2	1079.3	992.4	928.6	873.0	848.9	796.7
82.5°	573.7	448.0	347.5	262.8	202.0	158.0	138.1	113.0
85°	127.7	97.4	80.6	64.9	55.4	51.3	41.9	38.7
87.5°	17.8	15.7	14.7	13.6	11.5	8.4	6.3	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)