

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: P180101

Luminaire Tested: **ICM-F05-LED-E1-5WQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180101
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-F05-LED-E1-5WQ-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10317.6 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

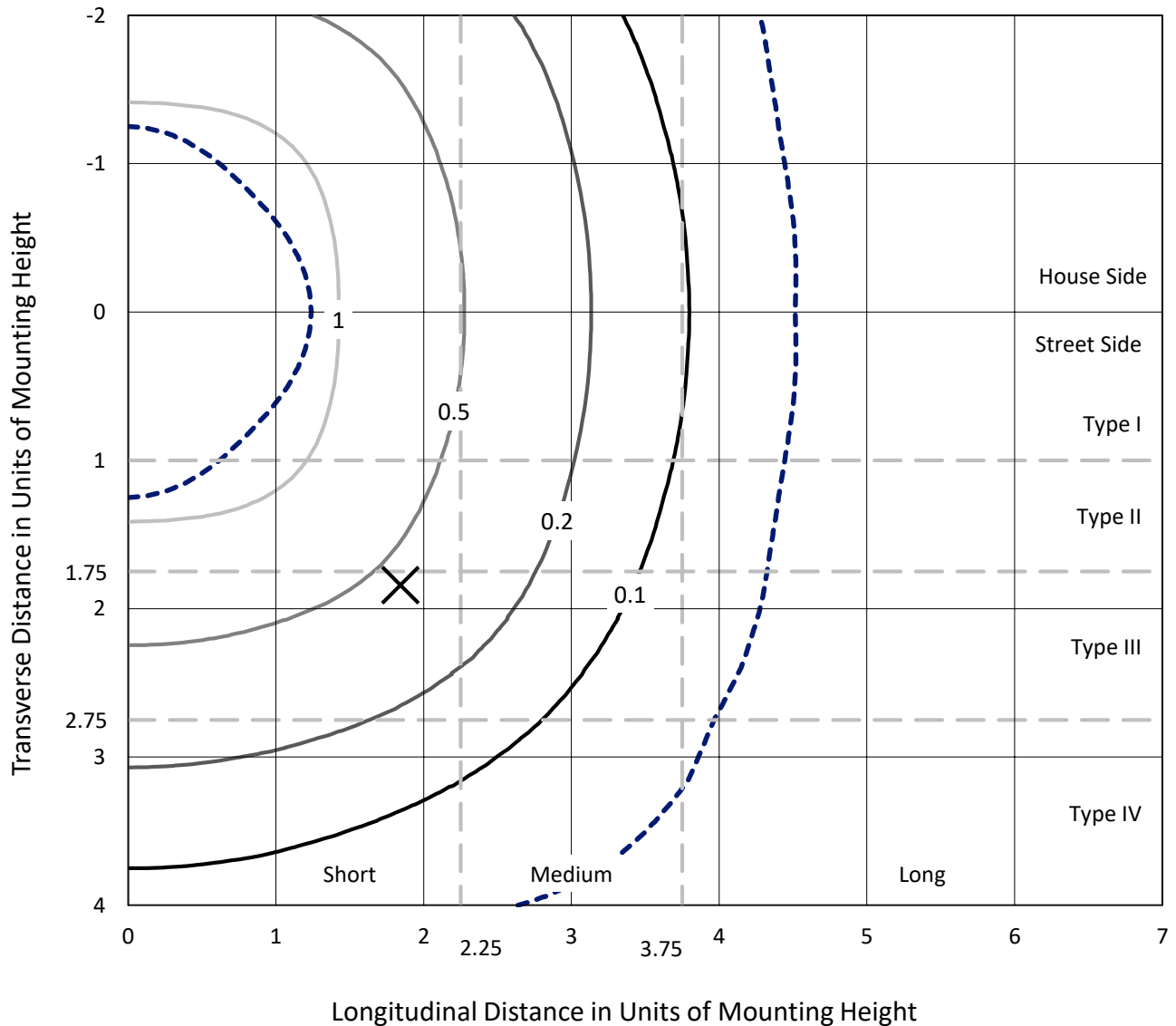
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

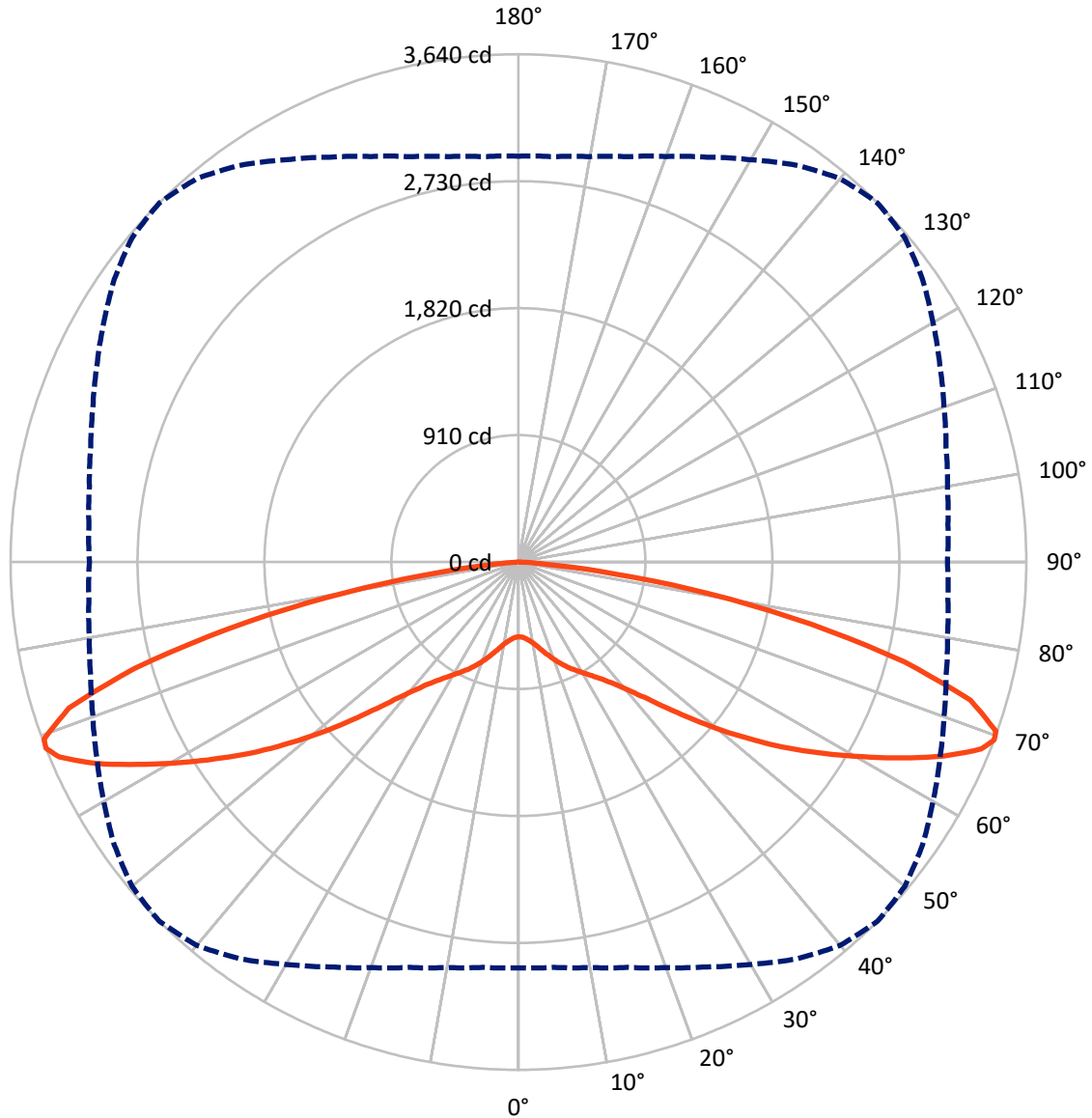
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.6 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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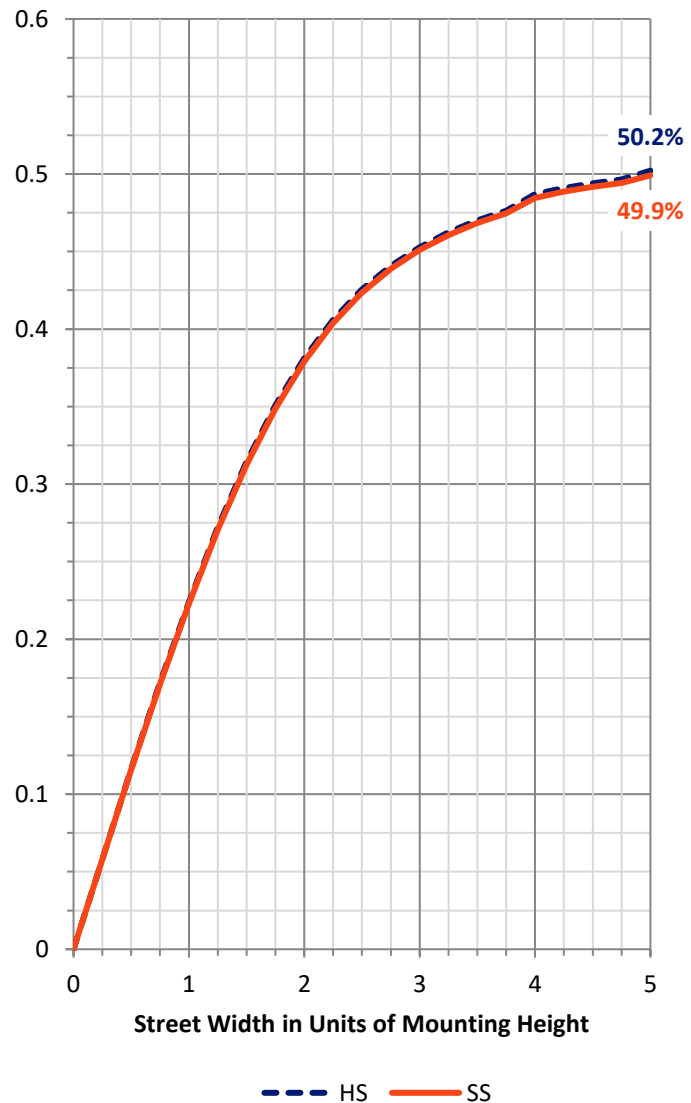
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5158.8	0.0	5158.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5158.8	0.0	5158.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	10317.6	0.0	10317.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	0.5
10°-20°	190.0	1.8
20°-30°	384.7	3.7
30°-40°	644.9	6.3
40°-50°	1137.6	11.0
50°-60°	2006.2	19.4
60°-70°	3062.9	29.7
70°-80°	2559.4	24.8
80°-90°	278.1	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°	10317.6	100.0
0°-180°	10317.6	100.0



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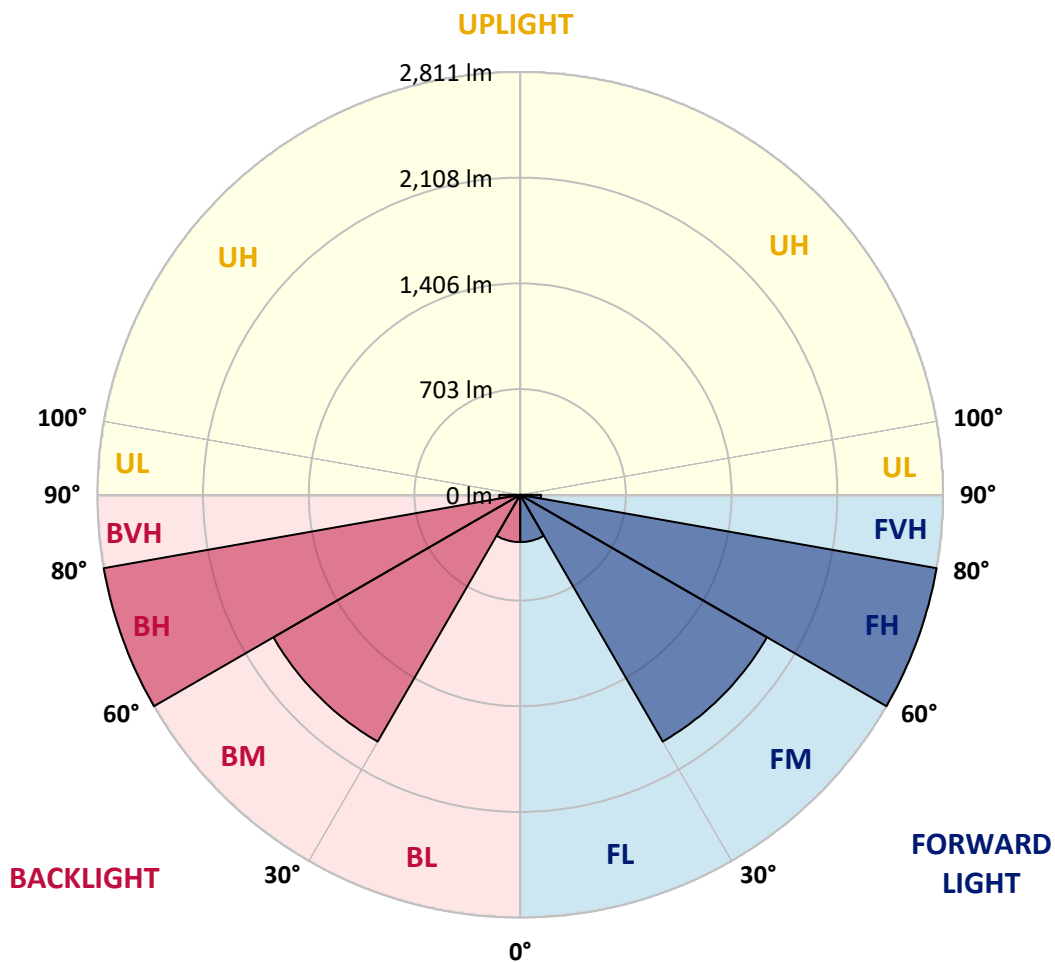
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	314.2	3.0			
FM	(30°-60°)	1894.4	18.4			
FH	(60°-80°)	2811.1	27.2			G2/5000
FVH	(80°-90°)	139.1	1.3			G2/225
BL	(0°-30°)	314.2	3.0	B1/500		
BM	(30°-60°)	1894.4	18.4	B2/2500		
BH	(60°-80°)	2811.1	27.2	B4/5000		G2/5000
BVH	(80°-90°)	139.1	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°	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8
2.5°	540.1	541.2	540.1	540.1	540.1	540.1	540.1	539.1	539.1	539.1	540.1
5°	550.9	552.0	550.9	552.0	552.0	552.0	552.0	550.9	550.9	550.9	550.9
7.5°	568.2	568.2	568.2	569.3	568.2	568.2	569.3	568.2	568.2	568.2	568.2
10°	593.0	592.0	592.0	592.0	592.0	592.0	593.0	593.0	593.0	592.0	592.0
12.5°	623.3	622.2	623.3	623.3	624.4	624.4	624.4	624.4	624.4	624.4	623.3
15°	660.0	660.0	660.0	661.1	663.3	663.3	662.1	663.3	663.3	663.3	663.3
17.5°	701.0	703.3	701.0	702.1	703.3	702.1	704.3	705.4	706.4	705.4	702.1
20°	743.2	744.3	744.3	744.3	744.3	746.4	747.5	747.5	750.8	749.7	748.6
22.5°	783.2	785.3	785.3	786.4	786.4	789.7	789.7	789.7	791.8	794.0	791.8
25°	825.3	824.2	824.2	826.3	827.4	831.7	831.7	834.0	837.2	838.2	836.1
27.5°	863.1	862.1	862.1	865.2	866.3	871.7	871.7	876.1	878.2	879.3	877.1
30°	903.1	903.1	902.0	905.2	908.5	912.7	915.0	919.3	922.5	923.5	921.4
32.5°	950.6	948.5	949.5	951.6	953.9	958.1	961.4	966.8	971.1	972.2	970.1
35°	1004.6	1001.4	1002.4	1004.6	1007.8	1014.3	1019.7	1023.0	1029.4	1031.6	1027.3
37.5°	1064.0	1065.1	1064.0	1069.4	1074.8	1082.3	1088.8	1093.2	1099.6	1102.9	1099.6
40°	1148.3	1145.0	1148.3	1153.7	1162.3	1172.0	1185.0	1188.2	1194.7	1201.2	1193.7
42.5°	1257.4	1255.2	1262.8	1267.1	1276.8	1287.6	1303.8	1312.5	1322.1	1326.5	1320.0
45°	1399.9	1399.9	1408.6	1409.7	1424.8	1438.9	1461.5	1472.4	1490.7	1490.7	1490.7
47.5°	1557.7	1564.2	1569.6	1580.4	1591.2	1617.1	1639.7	1663.5	1680.8	1683.0	1679.7
50°	1720.8	1727.3	1743.5	1758.6	1782.3	1814.8	1839.6	1870.9	1886.1	1899.0	1894.7
52.5°	1901.2	1902.2	1921.7	1941.1	1975.7	2011.4	2051.4	2083.7	2110.7	2122.6	2112.9
55°	2098.9	2101.0	2118.3	2138.8	2177.7	2218.8	2268.5	2302.0	2336.5	2358.2	2341.9
57.5°	2312.8	2313.8	2331.1	2355.9	2402.4	2443.5	2491.0	2538.5	2570.9	2590.3	2579.6
60°	2549.3	2554.7	2567.6	2599.0	2643.3	2686.5	2734.1	2776.2	2814.0	2834.5	2823.6
62.5°	2802.1	2807.5	2825.9	2850.7	2889.6	2937.1	2982.4	3036.5	3067.8	3090.5	3074.3
65°	2971.6	2981.4	3010.5	3044.0	3101.3	3162.9	3215.8	3289.2	3327.1	3354.1	3338.9
67.5°	2982.4	2987.9	3023.6	3074.3	3151.0	3243.9	3351.9	3466.4	3541.0	3576.6	3550.6
69°	2909.0	2916.6	2951.2	3008.4	3093.8	3201.8	3330.3	3472.9	3587.4	3640.3	3615.5
70°	2825.9	2842.1	2879.8	2942.5	3025.7	3139.1	3272.0	3424.3	3558.3	3630.6	3612.2
72.5°	2650.8	2655.2	2680.0	2729.7	2793.4	2887.5	3012.8	3156.4	3283.8	3387.6	3402.7
75°	2352.8	2366.7	2385.1	2418.6	2451.0	2519.1	2603.4	2701.6	2776.2	2856.1	2859.4
77.5°	1778.1	1820.2	1834.2	1841.8	1855.8	1909.8	1983.3	2068.6	2130.2	2143.2	2140.9
80°	798.2	854.4	867.4	929.0	966.8	1056.5	1168.8	1299.5	1387.0	1396.8	1372.9
82.5°	156.7	167.4	195.5	244.1	332.7	385.7	459.1	550.9	635.2	683.8	654.6
85°	51.8	55.1	63.7	70.2	81.0	91.8	111.3	138.2	171.7	190.1	169.6
87.5°	20.6	20.6	23.7	26.0	28.1	28.1	28.1	26.0	24.8	20.6	18.3
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°	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8
2.5°	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1
5°	550.9	549.9	549.9	548.7	548.7	548.7	548.7	548.7
7.5°	567.1	566.0	564.9	566.0	564.9	564.9	564.9	564.9
10°	592.0	589.8	588.7	587.6	587.6	587.6	586.5	586.5
12.5°	621.1	621.1	620.0	619.0	616.8	617.9	616.8	614.6
15°	661.1	658.9	657.9	656.7	654.6	654.6	654.6	653.5
17.5°	701.0	698.9	698.9	695.6	694.6	694.6	694.6	695.6
20°	745.3	742.1	739.9	737.8	735.6	736.7	734.5	736.7
22.5°	789.7	785.3	783.2	779.9	776.7	776.7	775.6	773.4
25°	832.8	827.4	825.3	822.1	817.7	817.7	815.5	813.4
27.5°	873.9	868.5	866.3	859.8	855.5	854.4	852.3	851.2
30°	919.3	912.7	909.6	903.1	896.6	895.5	892.3	892.3
32.5°	966.8	960.3	958.1	948.5	943.1	943.1	940.8	938.7
35°	1026.2	1016.5	1014.3	1004.6	997.0	997.0	994.9	996.0
37.5°	1096.4	1088.8	1081.3	1073.8	1065.1	1064.0	1061.9	1059.7
40°	1190.4	1181.8	1173.1	1162.3	1154.8	1152.6	1149.3	1148.3
42.5°	1315.7	1307.1	1289.8	1281.1	1273.6	1267.1	1266.1	1264.9
45°	1475.5	1464.8	1452.8	1436.7	1427.0	1412.9	1410.8	1405.4
47.5°	1667.8	1647.4	1626.8	1612.8	1597.7	1581.4	1578.2	1569.6
50°	1872.0	1855.8	1821.2	1798.5	1774.8	1758.6	1747.8	1744.6
52.5°	2091.3	2061.0	2026.5	1996.2	1961.7	1940.1	1920.7	1915.3
55°	2320.3	2277.1	2233.9	2198.2	2163.6	2137.8	2119.4	2110.7
57.5°	2549.3	2501.8	2454.2	2415.4	2386.2	2352.8	2334.3	2330.1
60°	2788.0	2742.7	2694.1	2655.2	2619.6	2590.3	2579.6	2559.0
62.5°	3040.9	2993.3	2947.9	2910.1	2864.8	2844.2	2825.9	2814.0
65°	3289.2	3234.2	3176.9	3136.9	3091.6	3062.4	3039.7	3023.6
67.5°	3481.5	3398.3	3321.7	3254.7	3193.1	3147.7	3118.6	3103.5
69°	3535.6	3431.8	3333.5	3246.1	3173.7	3122.9	3090.5	3075.4
70°	3529.0	3414.5	3306.5	3210.4	3131.6	3077.5	3046.3	3018.2
72.5°	3329.2	3224.5	3104.6	2999.7	2928.5	2876.6	2845.3	2830.2
75°	2840.9	2770.7	2684.3	2603.4	2551.5	2521.2	2482.3	2483.5
77.5°	2068.6	2070.8	2012.5	1929.2	1870.9	1860.1	1842.9	1825.6
80°	1283.3	1180.7	1113.7	1024.0	958.1	900.9	876.1	822.1
82.5°	592.0	462.3	358.6	271.2	208.5	163.1	142.6	116.7
85°	131.8	100.5	83.2	67.0	57.2	52.9	43.2	40.0
87.5°	18.3	16.2	15.2	14.0	11.9	8.7	6.5	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)