

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: P180001

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180001
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F05-LED-E1-5MQ-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10447.1 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

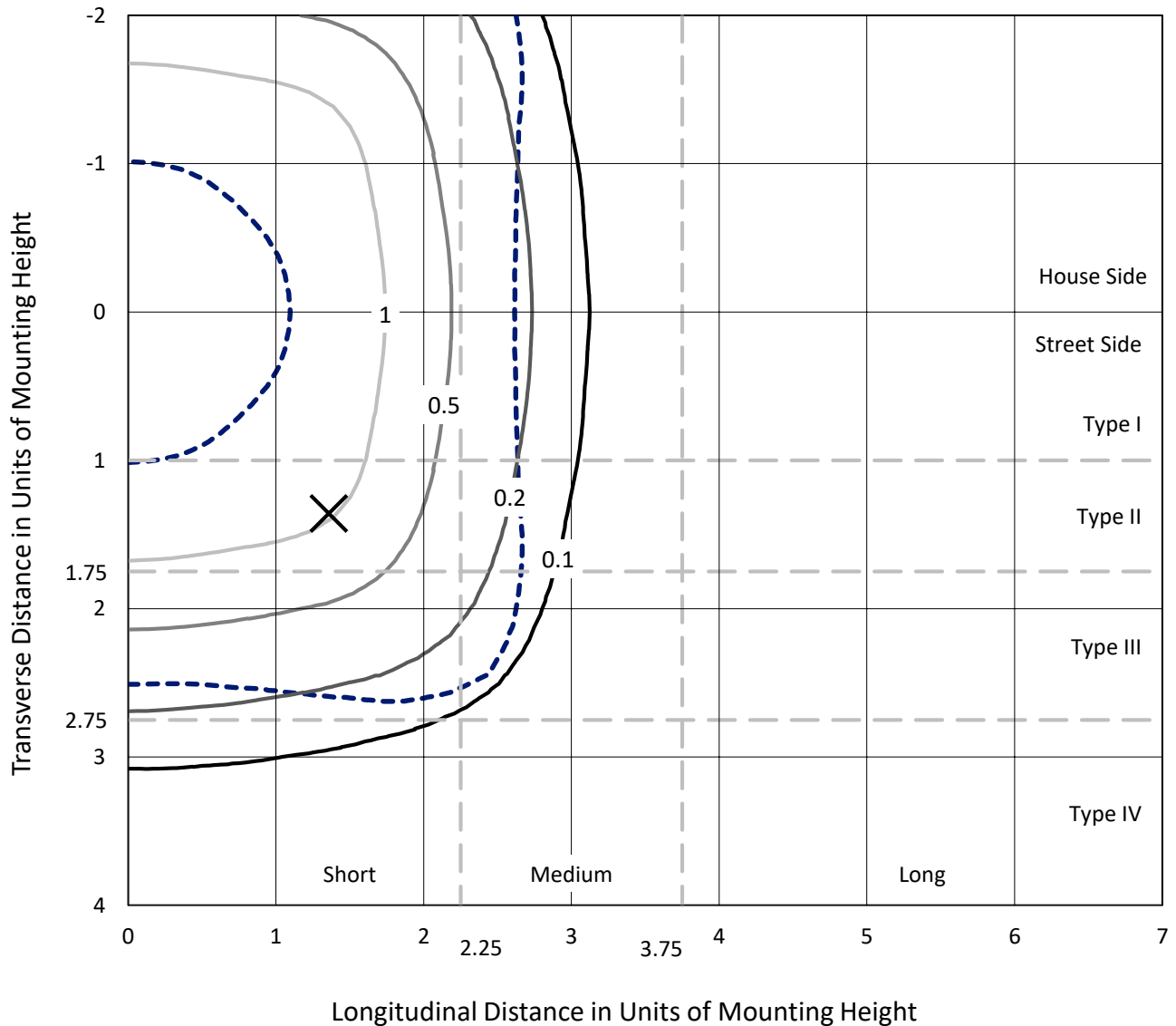
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

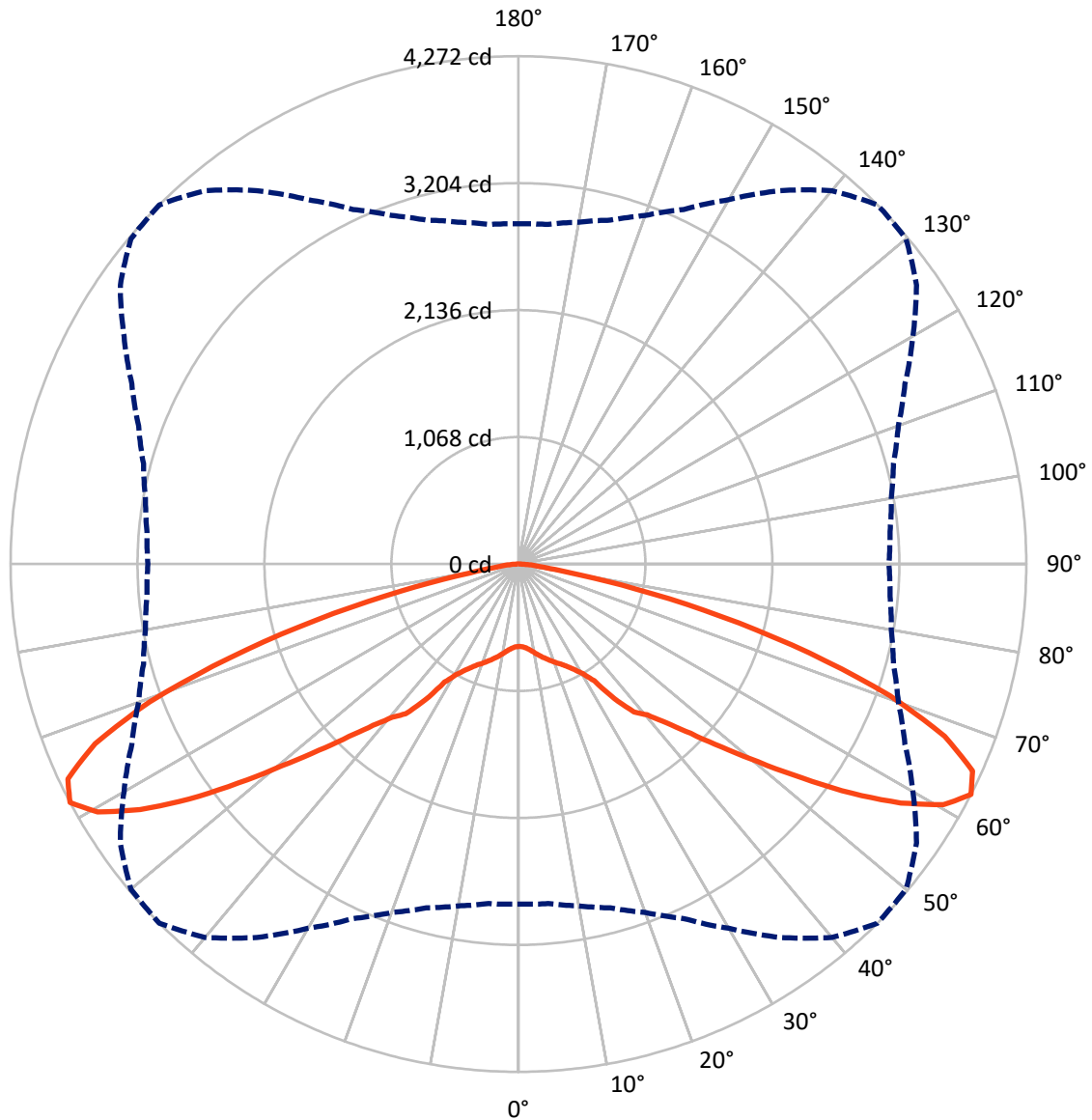
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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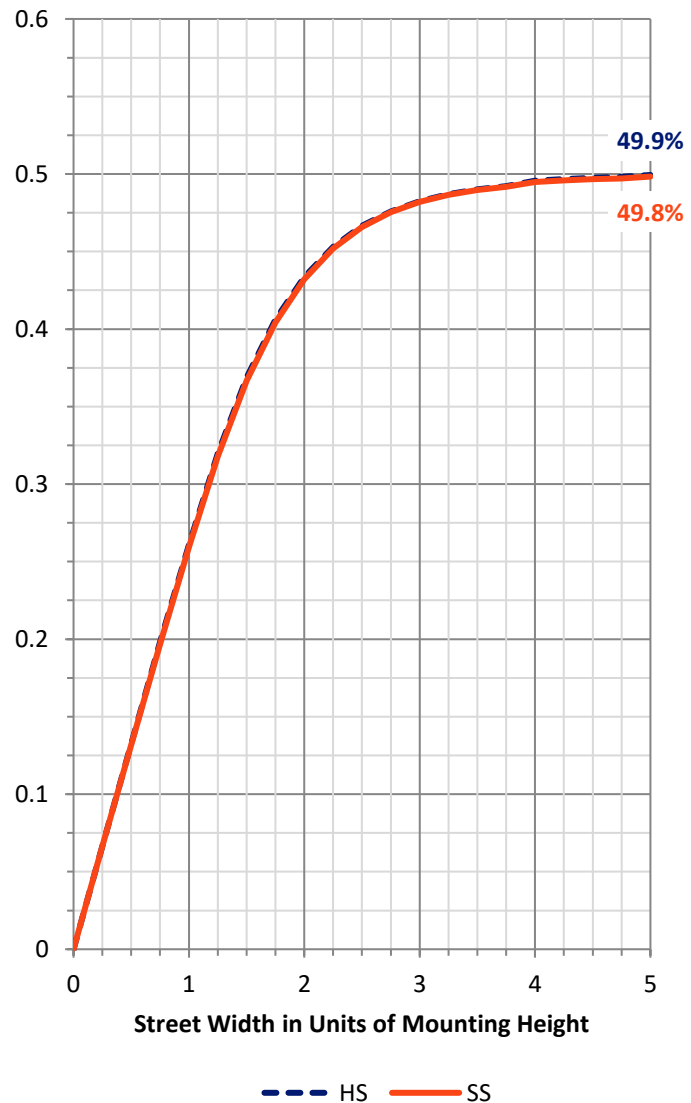
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5223.6	0.0	5223.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5223.6	0.0	5223.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	10447.1	0.0	10447.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	0.7
10°-20°	234.9	2.2
20°-30°	454.2	4.3
30°-40°	879.5	8.4
40°-50°	1588.0	15.2
50°-60°	2761.3	26.4
60°-70°	3134.8	30.0
70°-80°	1215.3	11.6
80°-90°	109.6	1.0
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°	10447.1	100.0
0°-180°	10447.1	100.0



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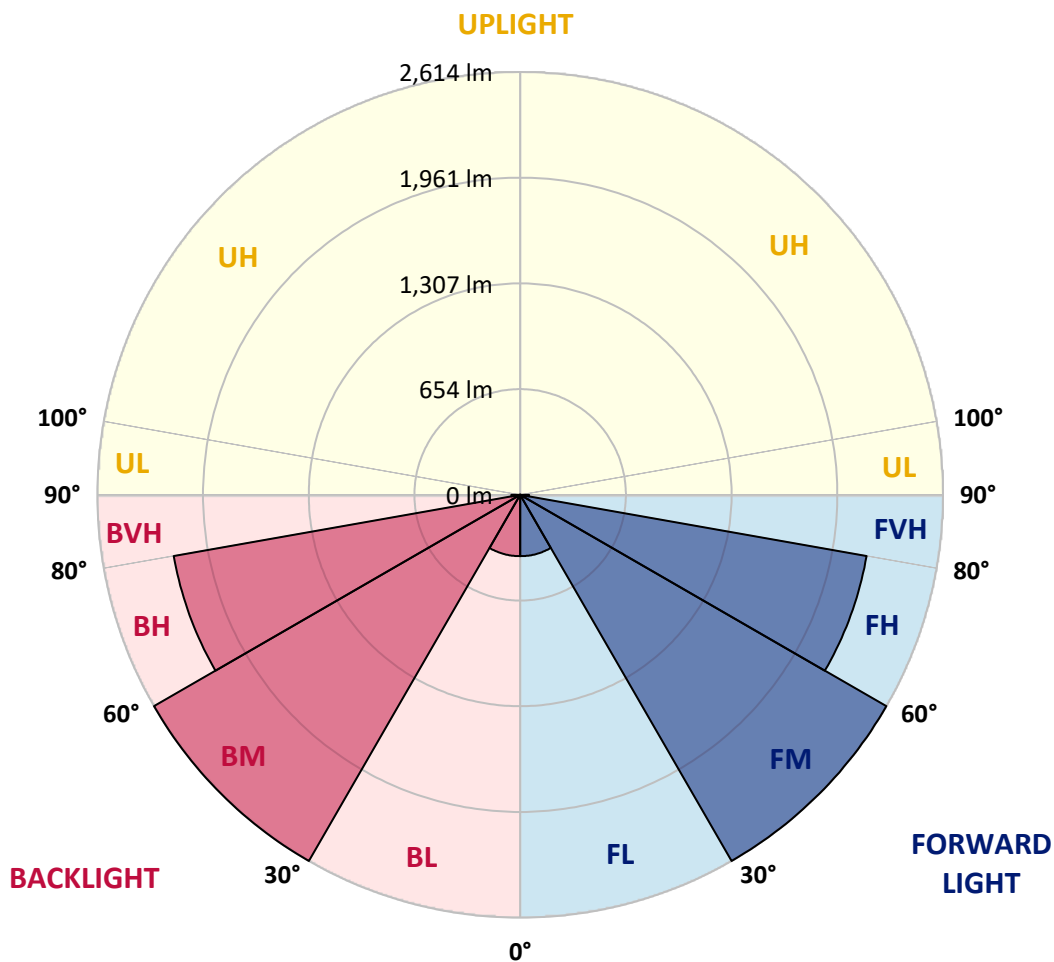
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	379.3	3.6			
FM (30°-60°)	2614.4	25.0			
FH (60°-80°)	2175.0	20.8			G2/5000
FVH (80°-90°)	54.8	0.5			G1/100
BL (0°-30°)	379.3	3.6	B1/500		
BM (30°-60°)	2614.4	25.0	B3/5000		
BH (60°-80°)	2175.0	20.8	B3/2500		G2/5000
BVH (80°-90°)	54.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	693.5	693.5	693.5	693.5	693.5	693.5	693.5	693.5	693.5	693.5	693.5
2.5°	697.9	700.0	699.4	698.4	698.4	698.4	697.9	696.2	695.6	696.7	697.9
5°	714.1	714.1	714.1	714.1	712.9	712.9	711.8	710.8	711.4	710.2	709.8
7.5°	738.9	737.3	737.2	736.7	736.7	735.6	734.0	731.9	732.4	731.9	731.4
10°	768.0	768.6	766.9	768.6	765.9	765.3	763.2	762.1	761.5	759.9	759.9
12.5°	803.2	801.5	801.5	800.4	799.4	798.2	795.0	794.5	792.4	791.3	789.7
15°	836.1	835.5	833.3	831.3	830.7	829.6	825.9	823.6	823.1	820.5	818.2
17.5°	869.0	867.9	865.3	864.2	862.0	860.5	857.1	854.0	852.3	851.2	848.6
20°	904.2	903.1	900.4	898.2	895.4	893.3	888.6	885.8	884.1	882.5	880.4
22.5°	947.9	945.7	941.4	937.7	931.7	929.5	923.0	919.3	916.6	914.4	913.3
25°	995.4	995.9	990.1	985.1	978.1	972.2	964.1	959.8	957.0	954.9	954.4
27.5°	1054.9	1055.4	1050.0	1043.0	1032.2	1025.7	1014.9	1009.5	1007.8	1005.7	1005.1
30°	1148.8	1143.9	1134.7	1123.4	1113.7	1099.7	1084.0	1078.6	1073.1	1071.5	1071.5
32.5°	1321.7	1318.9	1311.4	1283.4	1270.3	1241.1	1213.6	1198.0	1180.1	1171.5	1166.1
35°	1442.6	1441.5	1435.6	1425.9	1417.8	1411.9	1395.6	1392.9	1389.7	1389.7	1394.1
37.5°	1531.7	1525.2	1524.2	1525.8	1523.6	1524.7	1537.7	1555.5	1570.6	1578.2	1577.1
40°	1663.5	1654.3	1659.7	1656.0	1651.2	1650.1	1654.3	1661.4	1668.4	1668.4	1666.8
42.5°	1835.8	1840.2	1842.3	1826.6	1816.4	1813.7	1823.9	1821.8	1828.8	1826.1	1819.1
45°	2091.8	2089.1	2085.4	2066.4	2050.2	2037.3	2040.0	2036.2	2036.8	2032.4	2027.0
47.5°	2350.0	2359.3	2343.5	2334.3	2316.0	2306.8	2314.3	2307.9	2320.3	2297.6	2286.9
50°	2600.6	2607.1	2601.7	2588.7	2588.7	2601.7	2610.9	2622.7	2640.0	2614.2	2575.3
52.5°	2805.9	2811.3	2819.4	2830.2	2856.7	2884.2	2923.1	2964.7	2997.6	2992.8	2948.5
55°	2931.2	2937.7	2951.2	2988.5	3035.9	3108.3	3196.3	3293.0	3368.6	3405.4	3373.0
57.5°	2973.2	2978.2	3014.9	3059.7	3133.7	3241.1	3388.7	3555.6	3700.9	3793.1	3778.6
60°	2963.6	2963.6	3000.8	3062.3	3166.2	3308.7	3517.2	3748.3	3970.9	4109.1	4088.6
62.5°	2861.5	2866.9	2920.4	2994.3	3119.6	3290.3	3538.8	3834.3	4100.5	4272.2	4255.5
65°	2637.9	2641.7	2699.5	2787.5	2927.4	3129.4	3401.1	3728.4	4033.5	4198.7	4167.5
67.5°	2276.5	2280.4	2327.3	2426.7	2574.7	2785.9	3079.1	3439.5	3738.1	3868.9	3774.8
70°	1811.0	1821.8	1852.1	1957.4	2069.7	2276.6	2546.6	2906.9	3188.9	3312.5	3208.8
72.5°	1234.1	1261.7	1298.4	1391.8	1499.4	1671.1	1886.1	2189.6	2415.9	2559.1	2466.6
75°	695.1	734.0	745.3	816.1	904.7	1040.2	1197.4	1415.1	1643.5	1759.6	1648.4
77.5°	300.3	332.2	346.2	379.2	448.3	505.0	600.6	747.5	924.1	1005.7	872.3
80°	148.0	155.5	161.5	171.7	191.3	209.5	254.9	319.3	391.5	410.0	326.2
82.5°	114.5	119.9	130.2	138.2	143.1	147.9	152.4	160.9	168.0	171.7	162.0
85°	80.5	87.4	98.8	108.0	113.4	117.2	120.9	123.7	117.2	107.0	112.4
87.5°	21.0	27.5	38.3	41.6	47.0	49.7	48.6	50.2	45.4	32.9	36.7
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°	693.5	693.5	693.5	693.5	693.5	693.5	693.5	693.5
2.5°	697.3	696.7	697.3	697.3	697.3	696.7	696.7	696.7
5°	709.8	709.7	710.2	709.2	709.2	709.7	709.2	708.7
7.5°	730.8	730.2	730.2	729.7	730.2	729.7	729.7	729.1
10°	758.9	757.8	758.3	756.7	756.7	756.1	756.1	756.2
12.5°	789.0	787.4	788.0	786.4	783.6	784.2	784.7	784.3
15°	818.2	816.6	815.1	814.0	812.3	812.8	812.8	812.3
17.5°	848.0	844.7	844.2	842.6	842.1	842.1	842.1	842.6
20°	878.8	876.7	876.1	874.4	873.9	875.5	876.1	875.0
22.5°	911.7	910.7	911.7	910.7	912.2	913.3	913.9	912.7
25°	953.3	952.2	953.9	957.6	959.8	960.8	963.5	962.5
27.5°	1006.8	1005.7	1009.5	1014.9	1018.1	1023.4	1026.2	1027.3
30°	1075.9	1080.8	1083.0	1093.7	1095.9	1104.6	1104.6	1108.3
32.5°	1176.4	1185.5	1201.7	1218.5	1241.7	1258.4	1258.4	1267.1
35°	1396.7	1400.6	1412.9	1415.6	1420.5	1425.9	1420.5	1424.8
37.5°	1565.8	1549.0	1537.1	1520.4	1510.1	1510.1	1511.3	1510.1
40°	1652.2	1645.7	1640.3	1626.2	1624.1	1623.5	1623.5	1625.7
42.5°	1806.7	1791.1	1782.3	1770.4	1766.7	1765.6	1765.0	1766.2
45°	2007.5	1982.2	1958.9	1947.1	1936.8	1927.1	1930.3	1930.3
47.5°	2241.5	2202.1	2164.2	2143.6	2125.9	2117.8	2112.4	2110.7
50°	2526.1	2471.0	2422.3	2384.0	2358.2	2357.6	2360.3	2343.0
52.5°	2875.0	2788.1	2727.6	2675.7	2651.4	2648.8	2640.0	2630.3
55°	3261.7	3158.5	3058.6	3003.0	2971.2	2953.9	2943.6	2927.4
57.5°	3660.3	3521.5	3377.9	3288.8	3232.6	3193.7	3173.1	3163.9
60°	3967.7	3778.1	3588.5	3445.3	3351.9	3294.2	3258.4	3243.9
62.5°	4088.6	3831.5	3588.5	3400.6	3265.5	3185.5	3137.5	3116.4
65°	3944.4	3639.8	3363.3	3155.8	3005.2	2916.0	2863.6	2840.9
67.5°	3541.5	3272.6	2971.6	2765.3	2610.3	2522.3	2465.6	2448.9
70°	2968.9	2694.1	2406.7	2222.5	2084.3	2012.5	1953.5	1946.5
72.5°	2231.2	1994.1	1747.8	1595.5	1484.2	1365.4	1335.2	1350.2
75°	1430.1	1208.2	988.9	851.7	750.1	636.8	593.0	603.8
77.5°	677.3	524.5	378.6	292.7	245.8	210.0	200.9	195.5
80°	251.2	203.6	179.9	170.7	164.2	158.2	153.9	149.0
82.5°	162.6	158.8	154.0	152.4	147.4	139.9	125.8	119.9
85°	121.5	121.5	115.0	115.5	111.8	102.0	89.1	82.1
87.5°	35.6	31.8	29.2	27.0	26.4	23.8	17.3	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)