

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: P179986

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P179986
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-E04-LED-E1-5MQ-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10124.1 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

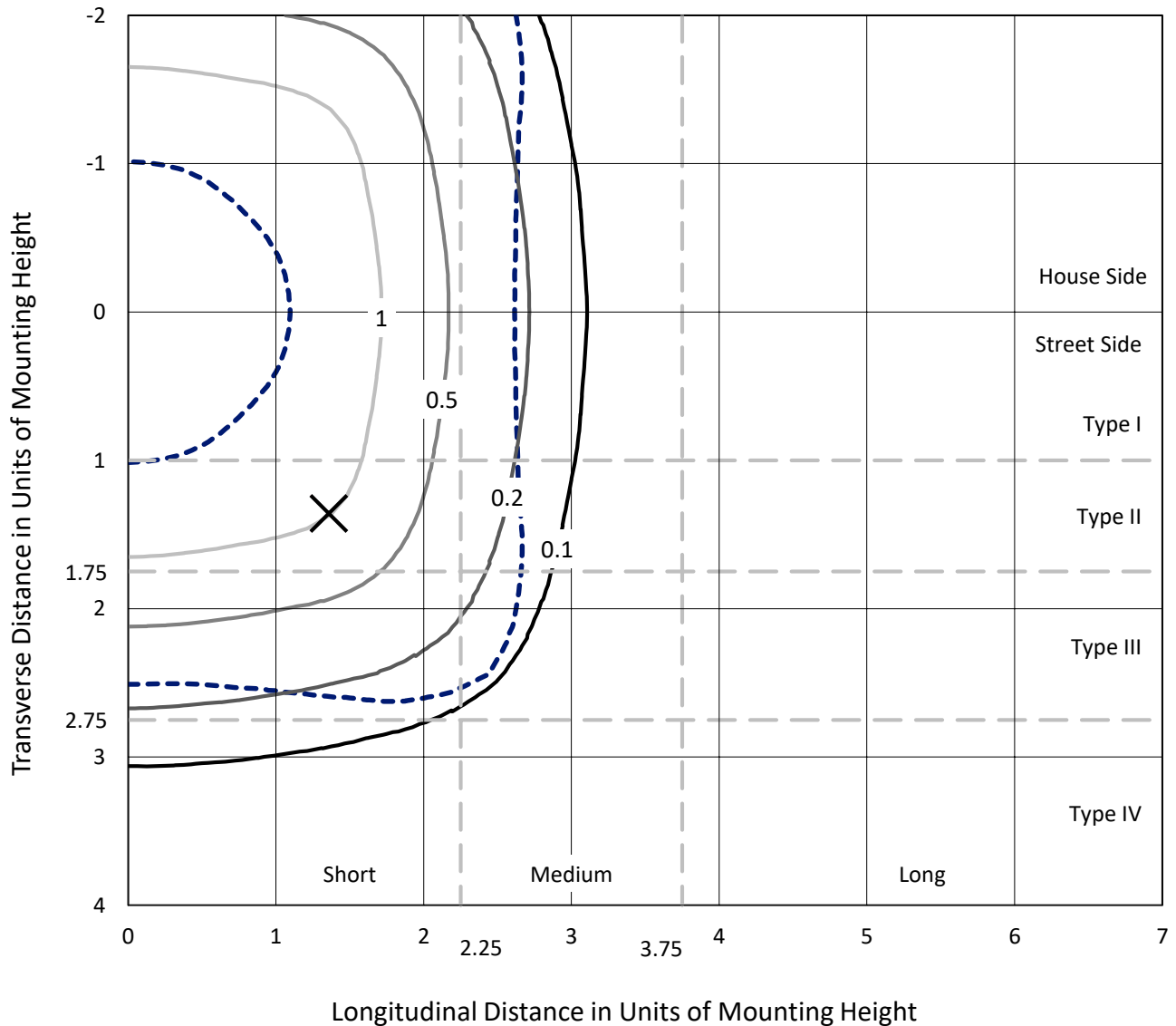
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

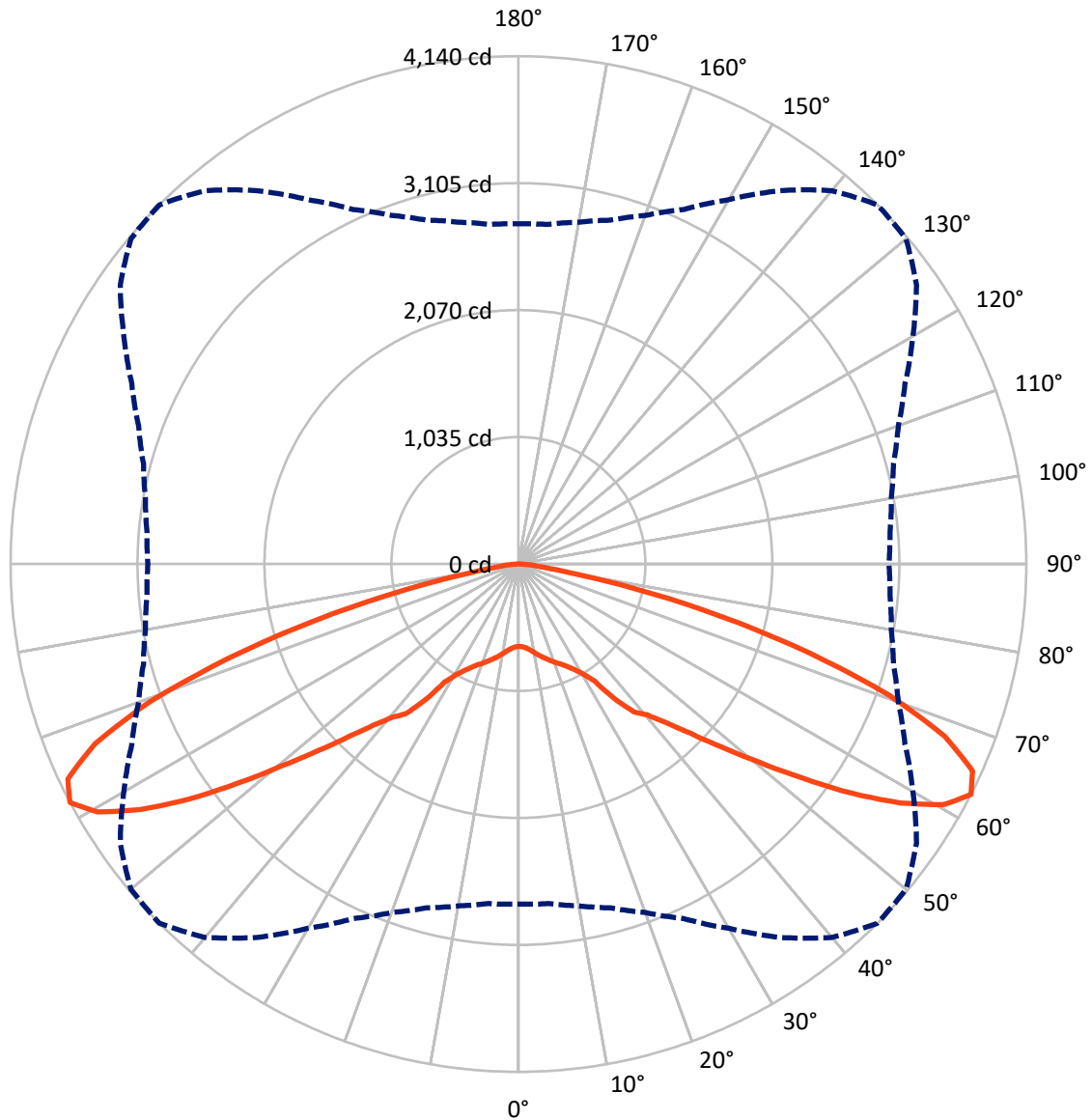
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.9 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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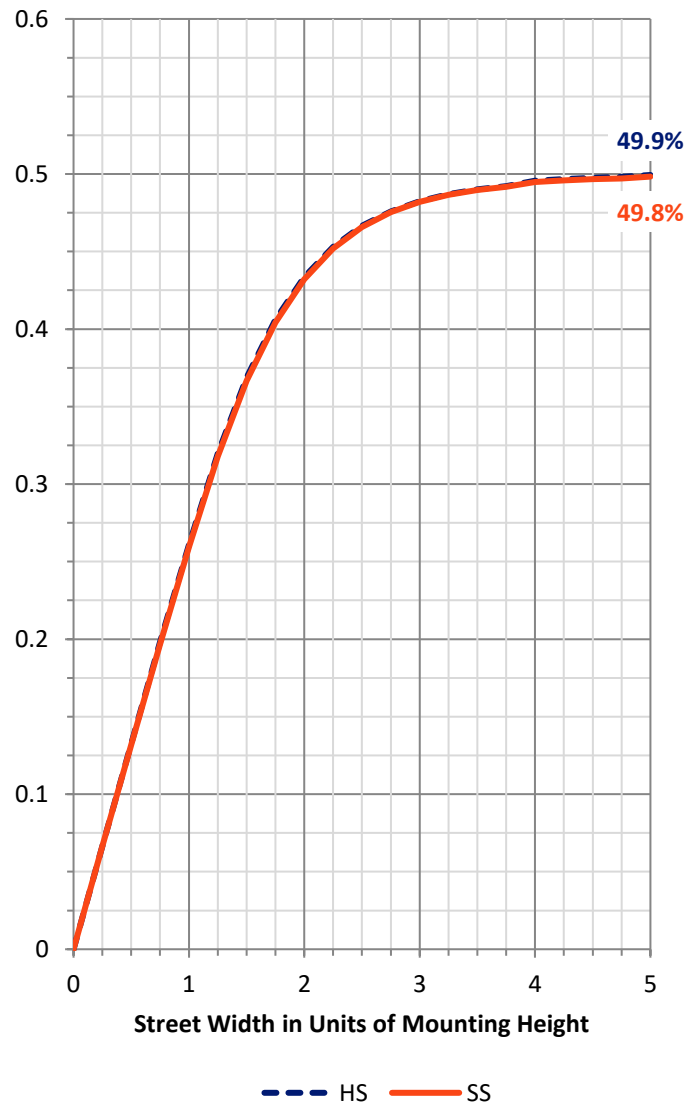
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5062.1	0.0	5062.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5062.1	0.0	5062.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	10124.1	0.0	10124.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.3	0.7
10°-20°	227.7	2.2
20°-30°	440.2	4.3
30°-40°	852.3	8.4
40°-50°	1538.9	15.2
50°-60°	2675.9	26.4
60°-70°	3037.8	30.0
70°-80°	1177.8	11.6
80°-90°	106.3	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°	10124.1	100.0
0°-180°	10124.1	100.0

Coefficient of Utilization



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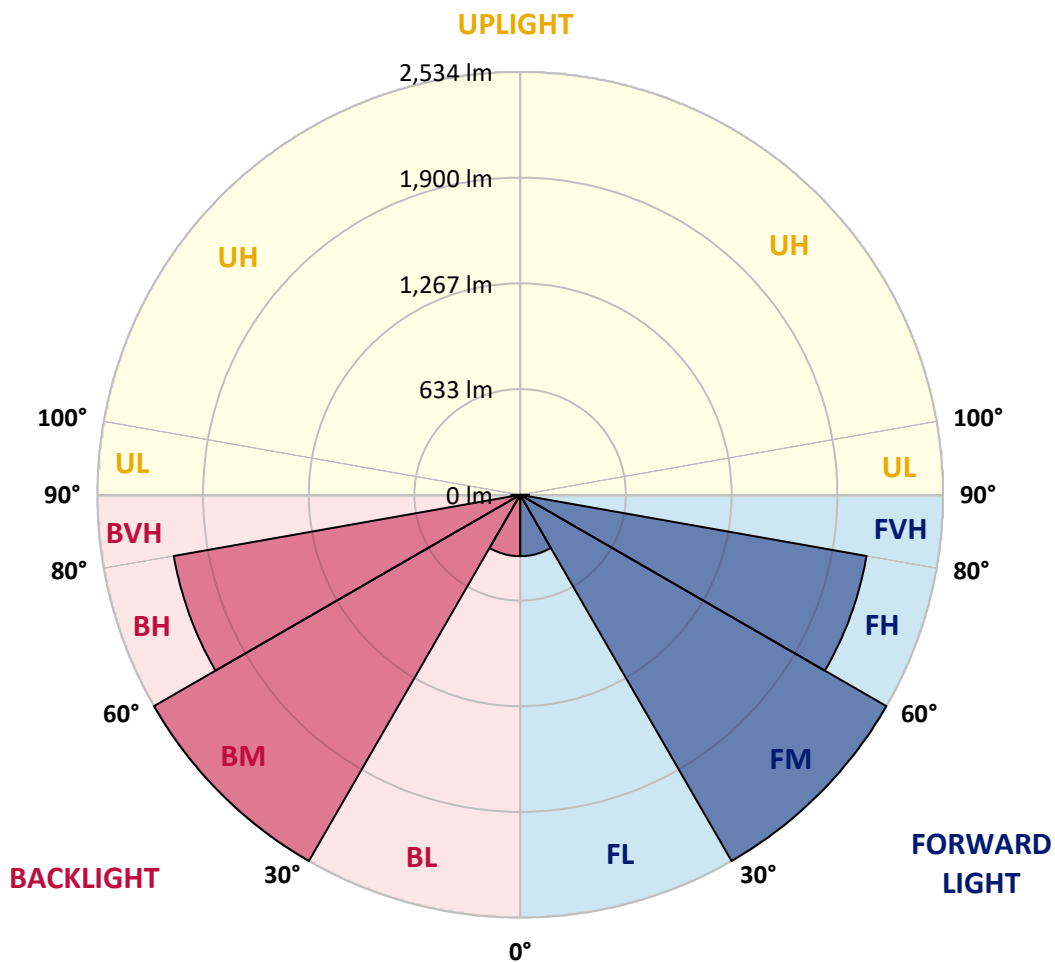
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	367.6	3.6			
FM	(30°-60°)	2533.5	25.0			
FH	(60°-80°)	2107.8	20.8			G2/5000
FVH	(80°-90°)	53.1	0.5			G1/100
BL	(0°-30°)	367.6	3.6	B1/500		
BM	(30°-60°)	2533.5	25.0	B3/5000		
BH	(60°-80°)	2107.8	20.8	B3/2500		G2/5000
BVH	(80°-90°)	53.1	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°	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1
2.5°	676.3	678.3	677.8	676.7	676.7	676.8	676.3	674.7	674.1	675.2	676.3
5°	691.9	691.9	691.9	691.9	690.9	690.9	689.9	688.7	689.3	688.3	687.8
7.5°	716.1	714.4	714.5	714.0	714.0	712.9	711.4	709.2	709.7	709.2	708.7
10°	744.3	744.8	743.2	744.8	742.1	741.7	739.5	738.5	738.1	736.4	736.4
12.5°	778.3	776.7	776.7	775.6	774.7	773.6	770.4	770.0	767.8	766.8	765.2
15°	810.2	809.7	807.6	805.5	805.0	803.9	800.3	798.2	797.7	795.0	792.9
17.5°	842.1	841.1	838.5	837.4	835.4	833.8	830.7	827.5	825.9	824.9	822.3
20°	876.2	875.2	872.6	870.4	867.8	865.7	861.0	858.4	856.7	855.3	853.2
22.5°	918.5	916.5	912.3	908.7	902.9	900.8	894.5	890.8	888.2	886.1	885.0
25°	964.7	965.1	959.4	954.7	947.9	942.1	934.3	930.1	927.4	925.4	924.8
27.5°	1022.2	1022.7	1017.5	1010.7	1000.2	994.0	983.4	978.2	976.8	974.6	974.1
30°	1113.3	1108.7	1099.7	1088.7	1079.3	1065.7	1050.4	1045.2	1040.0	1038.5	1038.4
32.5°	1280.8	1278.1	1270.9	1243.6	1231.1	1202.8	1176.1	1160.9	1143.6	1135.3	1130.1
35°	1398.0	1397.0	1391.3	1381.8	1374.0	1368.2	1352.5	1349.9	1346.8	1346.8	1350.9
37.5°	1484.4	1478.1	1477.0	1478.6	1476.5	1477.6	1490.1	1507.5	1522.1	1529.4	1528.4
40°	1612.1	1603.2	1608.4	1604.8	1600.0	1599.1	1603.2	1610.1	1616.8	1616.8	1615.3
42.5°	1779.0	1783.3	1785.3	1770.2	1760.2	1757.6	1767.5	1765.5	1772.3	1769.7	1762.8
45°	2027.2	2024.6	2020.8	2002.6	1986.9	1974.3	1976.9	1973.2	1973.8	1969.6	1964.3
47.5°	2277.4	2286.2	2271.1	2262.2	2244.4	2235.5	2242.8	2236.5	2248.6	2226.6	2216.1
50°	2520.2	2526.5	2521.3	2508.7	2508.7	2521.2	2530.2	2541.7	2558.4	2533.2	2495.6
52.5°	2719.1	2724.3	2732.2	2742.7	2768.3	2795.0	2832.7	2873.0	2904.9	2900.3	2857.3
55°	2840.6	2846.8	2859.9	2896.0	2942.2	3012.2	3097.5	3191.3	3264.5	3300.1	3268.7
57.5°	2881.4	2886.1	2921.7	2965.1	3036.9	3141.0	3283.8	3445.6	3586.4	3675.9	3661.8
60°	2871.9	2871.9	2908.1	2967.7	3068.2	3206.3	3408.4	3632.4	3848.1	3982.1	3962.2
62.5°	2773.0	2778.2	2830.2	2901.8	3023.3	3188.7	3429.4	3715.7	3973.7	4140.1	4123.9
65°	2556.3	2560.0	2616.0	2701.3	2836.9	3032.7	3295.8	3613.0	3908.9	4069.0	4038.5
67.5°	2206.2	2209.9	2255.4	2351.6	2495.1	2699.7	2984.0	3333.0	3622.5	3749.1	3658.1
70°	1755.0	1765.4	1794.8	1896.8	2005.7	2206.2	2467.9	2816.9	3090.3	3210.1	3109.6
72.5°	1196.0	1222.7	1258.2	1348.8	1453.0	1619.5	1827.7	2121.9	2341.2	2479.9	2390.3
75°	673.6	711.4	722.2	790.9	876.7	1008.1	1160.4	1371.4	1592.8	1705.3	1597.4
77.5°	291.0	321.9	335.5	367.4	434.4	489.4	582.1	724.5	895.5	974.5	845.3
80°	143.4	150.7	156.5	166.4	185.3	203.1	247.1	309.4	379.5	397.3	316.1
82.5°	111.0	116.3	126.1	134.0	138.7	143.4	147.5	156.0	162.8	166.4	157.0
85°	78.0	84.8	95.8	104.7	110.0	113.6	117.2	119.9	113.6	103.6	108.8
87.5°	20.4	26.7	37.2	40.4	45.5	48.2	47.1	48.7	43.9	31.9	35.5
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°	672.1	672.1	672.1	672.1	672.1	672.1	672.1	672.1
2.5°	675.7	675.2	675.7	675.7	675.7	675.2	675.2	675.2
5°	687.8	687.7	688.3	687.3	687.3	687.7	687.3	686.7
7.5°	708.2	707.7	707.6	707.2	707.7	707.2	707.2	706.6
10°	735.4	734.3	734.9	733.2	733.2	732.8	732.7	732.7
12.5°	764.7	763.2	763.7	762.1	759.4	760.0	760.6	760.0
15°	792.9	791.4	789.8	788.7	787.2	787.7	787.7	787.2
17.5°	821.8	818.6	818.1	816.6	816.0	816.0	816.0	816.6
20°	851.5	849.5	848.9	847.4	846.9	848.4	848.9	847.9
22.5°	883.5	882.4	883.5	882.4	884.1	885.0	885.6	884.6
25°	923.8	922.8	924.3	928.0	930.1	931.2	933.8	932.7
27.5°	975.6	974.5	978.2	983.4	986.6	991.8	994.5	995.5
30°	1042.6	1047.3	1049.5	1059.9	1062.0	1070.3	1070.3	1074.1
32.5°	1139.9	1148.8	1164.7	1180.8	1203.4	1219.5	1219.5	1227.9
35°	1353.5	1357.2	1369.2	1371.9	1376.6	1381.8	1376.6	1380.8
37.5°	1517.4	1501.1	1489.6	1473.4	1463.5	1463.5	1464.6	1463.5
40°	1601.1	1594.8	1589.6	1576.0	1574.0	1573.4	1573.4	1575.5
42.5°	1750.8	1735.6	1727.3	1715.7	1712.0	1711.0	1710.5	1711.5
45°	1945.5	1920.9	1898.4	1886.9	1876.9	1867.5	1870.7	1870.6
47.5°	2172.1	2134.0	2097.3	2077.4	2060.1	2052.3	2047.1	2045.5
50°	2448.0	2394.5	2347.5	2310.3	2285.2	2284.7	2287.3	2270.5
52.5°	2786.1	2701.9	2643.2	2592.9	2569.4	2566.8	2558.4	2549.0
55°	3160.9	3060.9	2964.1	2910.2	2879.3	2862.5	2852.6	2836.9
57.5°	3547.2	3412.7	3273.4	3187.0	3132.6	3094.9	3075.0	3066.2
60°	3845.0	3661.2	3477.5	3338.8	3248.2	3192.2	3157.8	3143.6
62.5°	3962.3	3713.1	3477.5	3295.4	3164.5	3087.1	3040.5	3020.1
65°	3822.5	3527.3	3259.3	3058.3	2912.2	2825.9	2775.1	2753.1
67.5°	3432.0	3171.4	2879.8	2679.8	2529.7	2444.3	2389.4	2373.1
70°	2877.2	2610.8	2332.3	2153.9	2019.8	1950.2	1893.2	1886.3
72.5°	2162.2	1932.5	1693.8	1546.1	1438.3	1323.2	1293.9	1308.6
75°	1386.0	1170.8	958.3	825.4	727.0	617.1	574.7	585.2
77.5°	656.4	508.2	366.9	283.7	238.1	203.6	194.8	189.5
80°	243.4	197.4	174.3	165.4	159.1	153.4	149.2	144.5
82.5°	157.6	153.9	149.2	147.6	142.9	135.5	122.0	116.2
85°	117.8	117.8	111.4	112.0	108.3	99.0	86.3	79.5
87.5°	34.6	30.9	28.3	26.2	25.7	23.1	16.7	14.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)