

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: P179978

Luminaire Tested: **ICM-E03-LED-E1-5MQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P179978
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-E03-LED-E1-5MQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8996.6 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 75.2
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

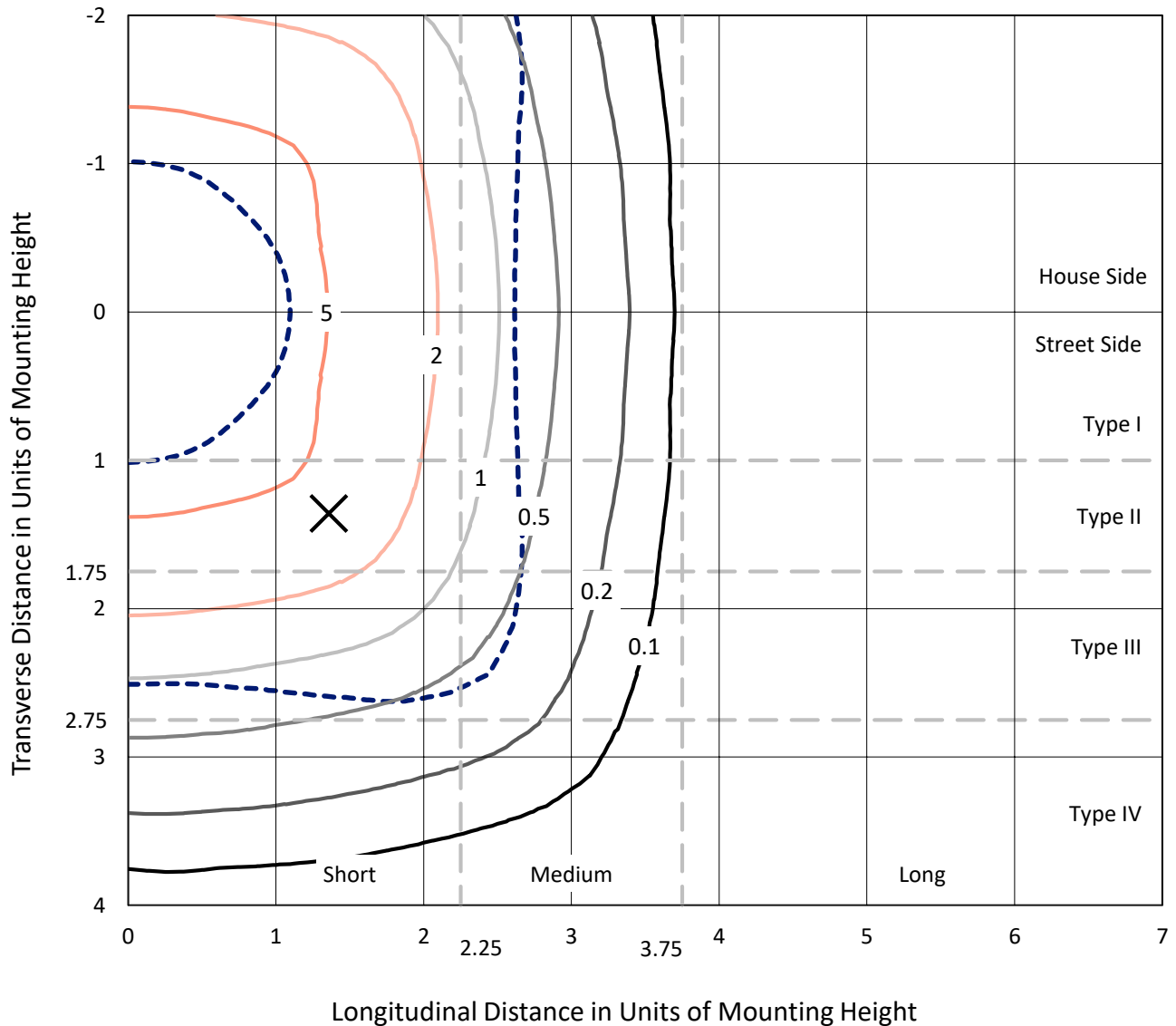


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Iso-Footcandle Lines of Horizontal Illumination

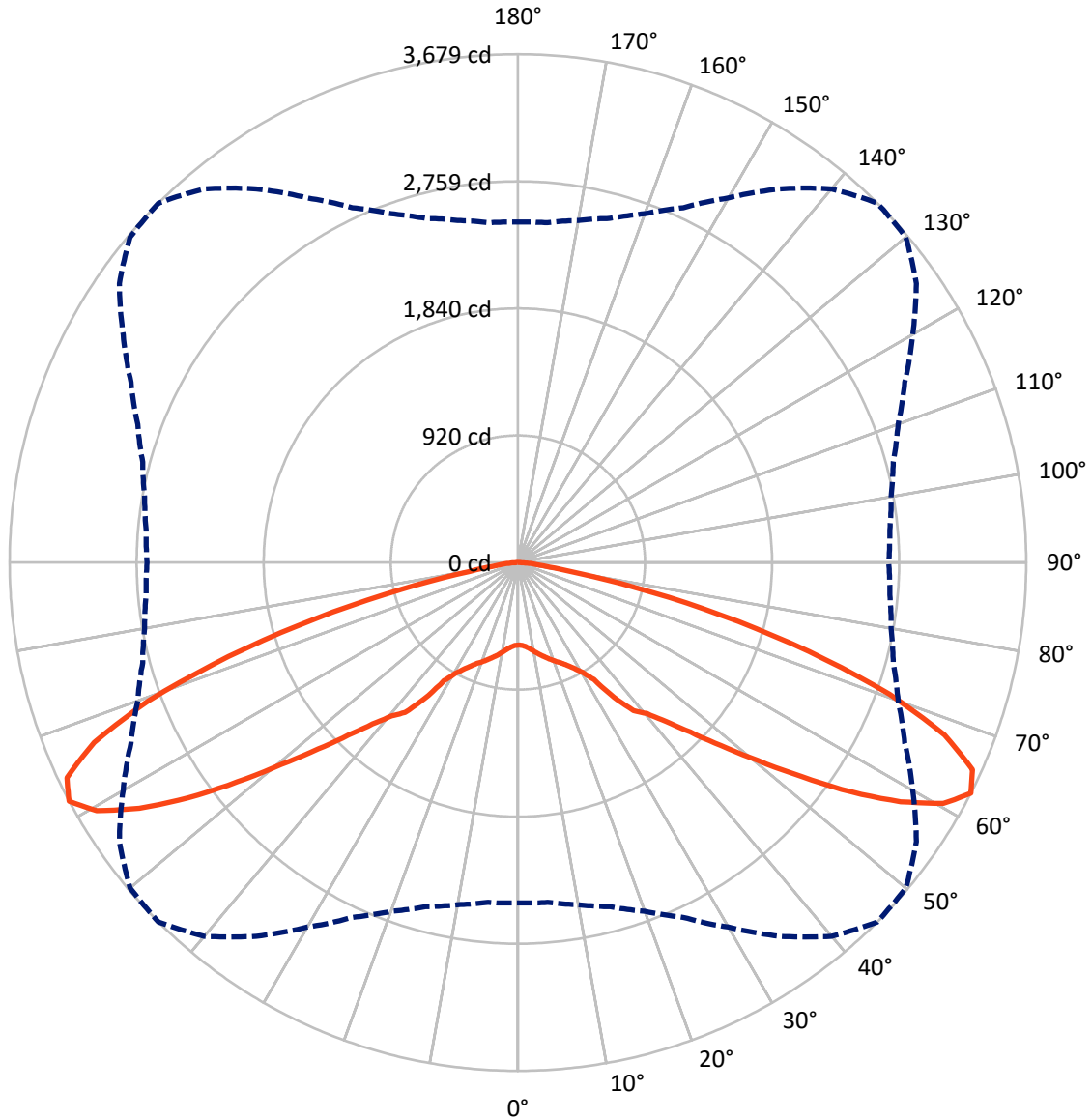
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 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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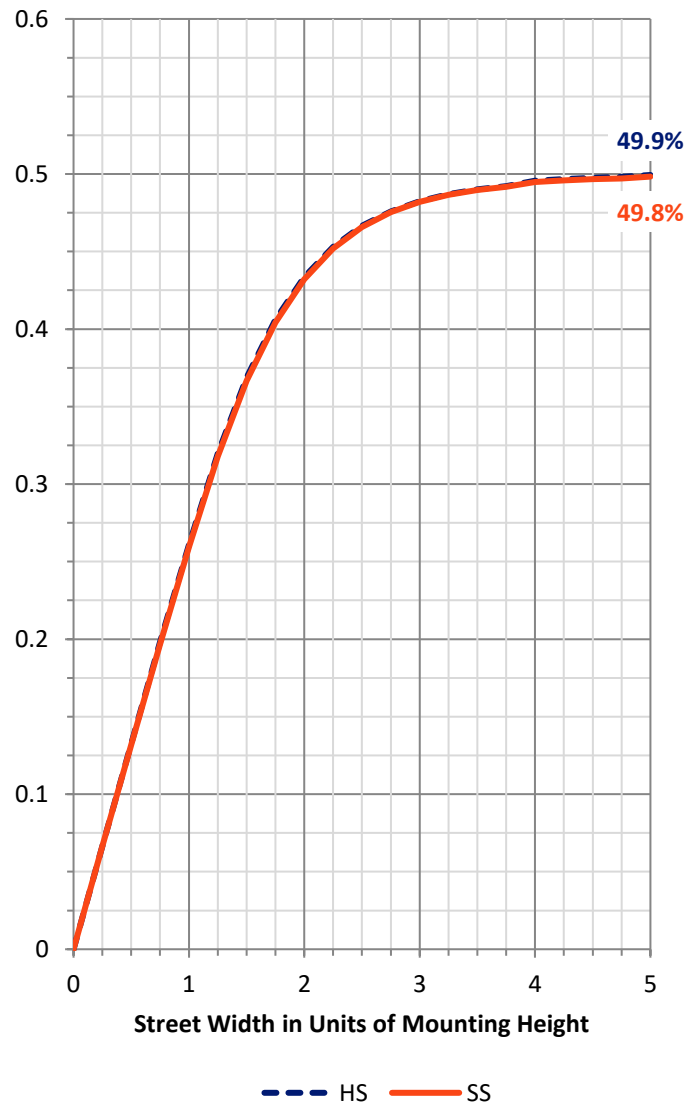
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4498.3	0.0	4498.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4498.3	0.0	4498.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8996.6	0.0	8996.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	0.7
10°-20°	202.3	2.2
20°-30°	391.2	4.3
30°-40°	757.4	8.4
40°-50°	1367.5	15.2
50°-60°	2377.9	26.4
60°-70°	2699.5	30.0
70°-80°	1046.6	11.6
80°-90°	94.4	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°	8996.6	100.0
0°-180°	8996.6	100.0



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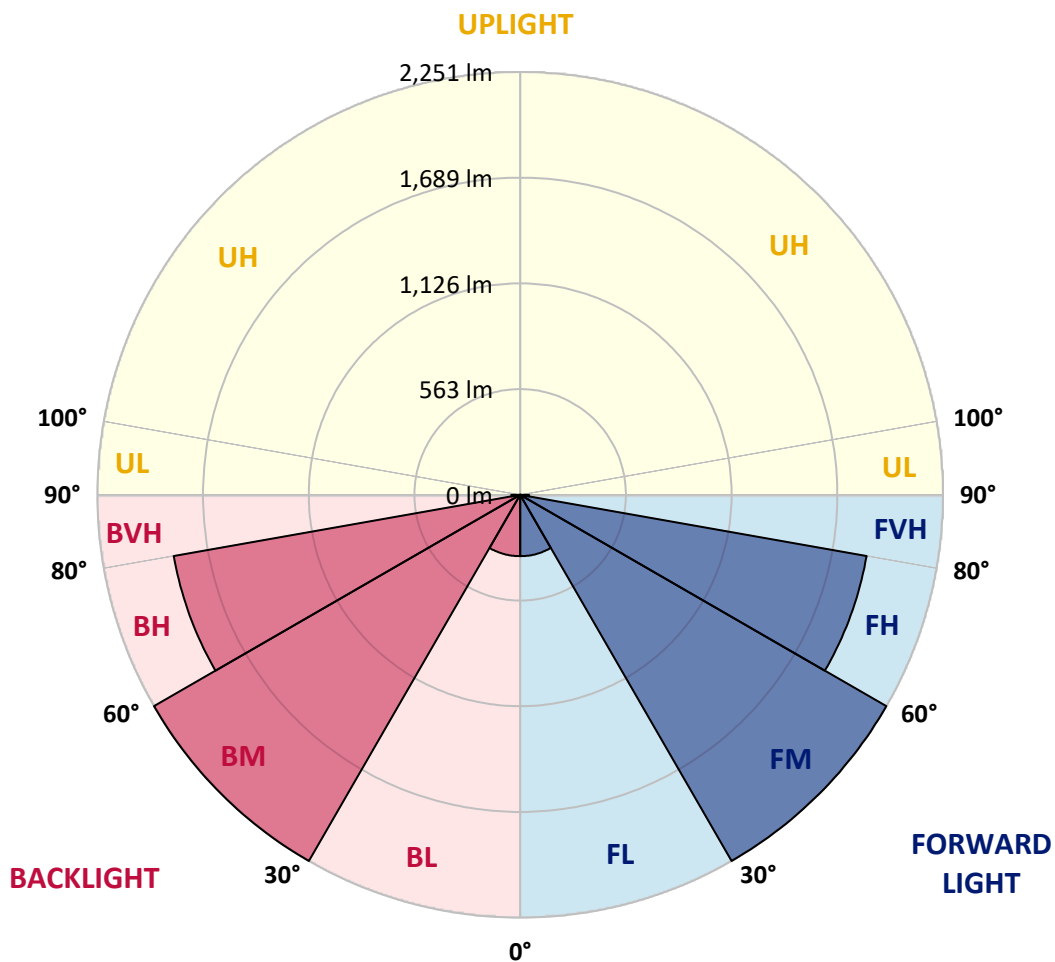
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	326.7	3.6			
FM	(30°-60°)	2251.4	25.0			
FH	(60°-80°)	1873.1	20.8			G2/5000
FVH	(80°-90°)	47.2	0.5			G1/100
BL	(0°-30°)	326.7	3.6	B1/500		
BM	(30°-60°)	2251.4	25.0	B2/2500		
BH	(60°-80°)	1873.1	20.8	B3/2500		G2/5000
BVH	(80°-90°)	47.2	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°	597.2	597.2	597.2	597.2	597.2	597.2	597.2	597.2	597.2	597.2	597.2
2.5°	600.9	602.8	602.3	601.4	601.4	601.4	600.9	599.5	599.1	600.0	600.9
5°	614.9	614.9	614.9	614.9	614.0	614.0	613.0	612.1	612.6	611.6	611.2
7.5°	636.3	634.9	634.9	634.4	634.4	633.5	632.1	630.2	630.7	630.2	629.8
10°	661.4	661.9	660.5	661.9	659.5	659.1	657.2	656.3	655.8	654.4	654.4
12.5°	691.6	690.2	690.2	689.3	688.4	687.4	684.7	684.2	682.3	681.4	680.0
15°	720.0	719.5	717.7	715.8	715.4	714.4	711.2	709.3	708.8	706.5	704.7
17.5°	748.4	747.4	745.1	744.2	742.3	740.9	738.1	735.4	734.0	733.0	730.7
20°	778.6	777.7	775.4	773.5	771.2	769.3	765.1	762.8	761.4	760.0	758.1
22.5°	816.3	814.4	810.7	807.4	802.3	800.5	794.9	791.6	789.3	787.4	786.5
25°	857.2	857.7	852.6	848.4	842.3	837.2	830.2	826.5	824.2	822.3	821.9
27.5°	908.4	908.8	904.2	898.1	888.8	883.3	874.0	869.3	867.9	866.1	865.6
30°	989.3	985.1	977.2	967.4	959.1	947.0	933.5	928.8	924.2	922.8	922.8
32.5°	1138.1	1135.8	1129.3	1105.1	1094.0	1068.8	1045.1	1031.6	1016.3	1008.8	1004.2
35°	1242.3	1241.4	1236.3	1227.9	1220.9	1215.8	1201.9	1199.5	1196.8	1196.8	1200.5
37.5°	1319.1	1313.5	1312.6	1314.0	1312.1	1313.0	1324.2	1339.5	1352.6	1359.1	1358.1
40°	1432.6	1424.7	1429.3	1426.1	1421.9	1420.9	1424.7	1430.7	1436.8	1436.8	1435.4
42.5°	1580.9	1584.7	1586.5	1573.0	1564.2	1561.9	1570.7	1568.8	1574.9	1572.6	1566.5
45°	1801.4	1799.1	1795.8	1779.5	1765.6	1754.4	1756.8	1753.5	1754.0	1750.2	1745.6
47.5°	2023.7	2031.6	2018.2	2010.2	1994.4	1986.5	1993.0	1987.5	1998.2	1978.6	1969.3
50°	2239.5	2245.1	2240.5	2229.3	2229.3	2240.5	2248.4	2258.6	2273.5	2251.2	2217.7
52.5°	2416.3	2420.9	2427.9	2437.2	2460.0	2483.7	2517.2	2553.0	2581.4	2577.2	2539.1
55°	2524.2	2529.8	2541.4	2573.5	2614.4	2676.8	2752.6	2835.8	2900.9	2932.6	2904.7
57.5°	2560.5	2564.7	2596.3	2634.9	2698.6	2791.2	2918.2	3061.9	3187.0	3266.5	3254.0
60°	2552.1	2552.1	2584.2	2637.2	2726.5	2849.3	3028.9	3227.9	3419.6	3538.6	3521.0
62.5°	2464.2	2468.9	2514.9	2578.6	2686.5	2833.5	3047.5	3301.9	3531.2	3679.1	3664.7
65°	2271.6	2274.9	2324.7	2400.5	2520.9	2694.9	2928.9	3210.7	3473.5	3615.8	3588.9
67.5°	1960.5	1963.7	2004.2	2089.8	2217.2	2399.1	2651.6	2961.9	3219.1	3331.6	3250.7
70°	1559.5	1568.8	1594.9	1685.6	1782.3	1960.5	2193.0	2503.3	2746.1	2852.6	2763.3
72.5°	1062.8	1086.5	1118.1	1198.6	1291.2	1439.1	1624.2	1885.6	2080.5	2203.7	2124.2
75°	598.6	632.1	641.9	702.8	779.1	895.8	1031.2	1218.6	1415.4	1515.4	1419.5
77.5°	258.6	286.0	298.1	326.5	386.0	434.9	517.2	643.7	795.8	866.1	751.2
80°	127.4	134.0	139.1	147.9	164.7	180.5	219.5	274.9	337.2	353.0	280.9
82.5°	98.6	103.3	112.1	119.1	123.3	127.4	131.2	138.6	144.7	147.9	139.5
85°	69.3	75.3	85.1	93.0	97.7	100.9	104.2	106.5	100.9	92.1	96.7
87.5°	18.1	23.7	33.0	35.8	40.5	42.8	41.9	43.3	39.1	28.4	31.6
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°	597.2	597.2	597.2	597.2	597.2	597.2	597.2	597.2
2.5°	600.5	600.0	600.5	600.5	600.5	600.0	600.0	600.0
5°	611.2	611.2	611.6	610.7	610.7	611.2	610.7	610.2
7.5°	629.3	628.8	628.8	628.4	628.8	628.4	628.4	627.9
10°	653.5	652.6	653.0	651.6	651.6	651.2	651.2	651.2
12.5°	679.5	678.1	678.6	677.2	674.9	675.4	675.8	675.4
15°	704.7	703.3	701.9	700.9	699.5	700.0	700.0	699.5
17.5°	730.2	727.4	727.0	725.6	725.1	725.1	725.1	725.6
20°	756.7	754.9	754.4	753.0	752.6	754.0	754.4	753.5
22.5°	785.1	784.2	785.1	784.2	785.6	786.5	787.0	786.1
25°	820.9	820.0	821.4	824.7	826.5	827.4	829.8	828.8
27.5°	867.0	866.1	869.3	874.0	876.7	881.4	883.7	884.7
30°	926.5	930.7	932.6	941.9	943.7	951.2	951.2	954.4
32.5°	1013.0	1020.9	1034.9	1049.3	1069.3	1083.7	1083.7	1091.2
35°	1202.8	1206.1	1216.8	1219.1	1223.3	1227.9	1223.3	1227.0
37.5°	1348.4	1334.0	1323.7	1309.3	1300.5	1300.5	1301.4	1300.5
40°	1422.8	1417.2	1412.6	1400.5	1398.6	1398.1	1398.1	1400.0
42.5°	1555.8	1542.3	1534.9	1524.7	1521.4	1520.5	1520.0	1520.9
45°	1728.8	1707.0	1687.0	1676.8	1667.9	1659.5	1662.3	1662.3
47.5°	1930.2	1896.3	1863.7	1846.1	1830.7	1823.7	1819.1	1817.7
50°	2175.4	2127.9	2086.1	2053.0	2030.7	2030.2	2032.6	2017.7
52.5°	2475.8	2400.9	2348.9	2304.2	2283.3	2280.9	2273.5	2265.1
55°	2808.9	2720.0	2634.0	2586.1	2558.6	2543.7	2534.9	2520.9
57.5°	3152.1	3032.6	2908.9	2832.1	2783.7	2750.2	2732.6	2724.7
60°	3416.8	3253.5	3090.3	2967.0	2886.5	2836.8	2806.1	2793.5
62.5°	3521.0	3299.6	3090.3	2928.4	2812.1	2743.3	2701.9	2683.7
65°	3396.8	3134.4	2896.3	2717.7	2587.9	2511.2	2466.1	2446.5
67.5°	3049.8	2818.2	2559.1	2381.4	2247.9	2172.1	2123.3	2108.9
70°	2556.8	2320.0	2072.6	1914.0	1794.9	1733.0	1682.3	1676.3
72.5°	1921.4	1717.2	1505.1	1374.0	1278.1	1175.8	1149.8	1162.8
75°	1231.6	1040.5	851.6	733.5	646.1	548.4	510.7	520.0
77.5°	583.3	451.6	326.0	252.1	211.6	180.9	173.0	168.4
80°	216.3	175.3	154.9	147.0	141.4	136.3	132.6	128.4
82.5°	140.0	136.7	132.6	131.2	127.0	120.5	108.4	103.3
85°	104.7	104.7	99.1	99.5	96.3	87.9	76.7	70.7
87.5°	30.7	27.4	25.1	23.3	22.8	20.5	14.9	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)