

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: P180051

Luminaire Tested: **ICS-F04-LED-E1-5MQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180051
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: ICS-F04-LED-E1-5MQ-8030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8086.5 lumens
Efficiency: N/A
Efficacy: 79.1 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 - G1

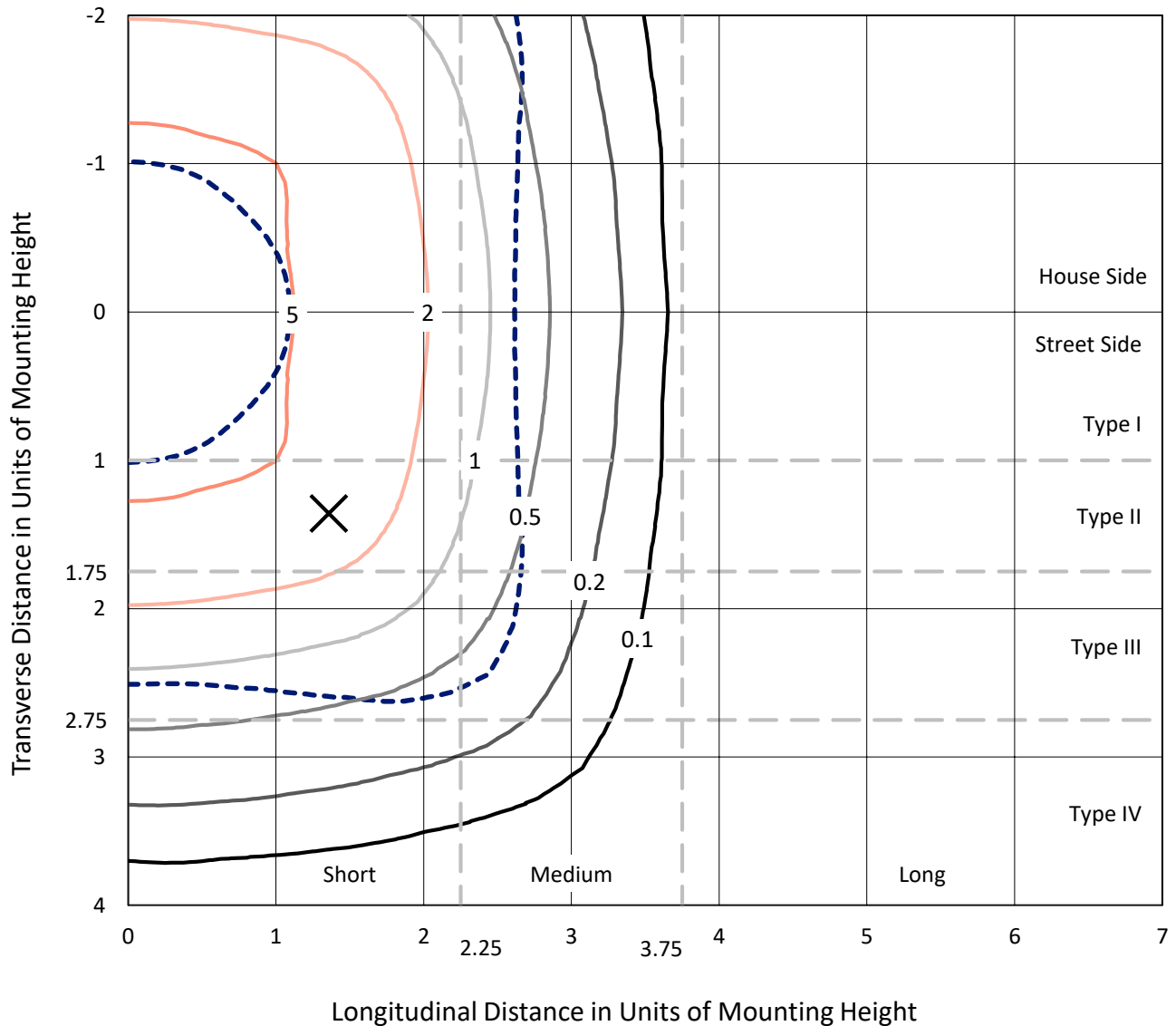
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

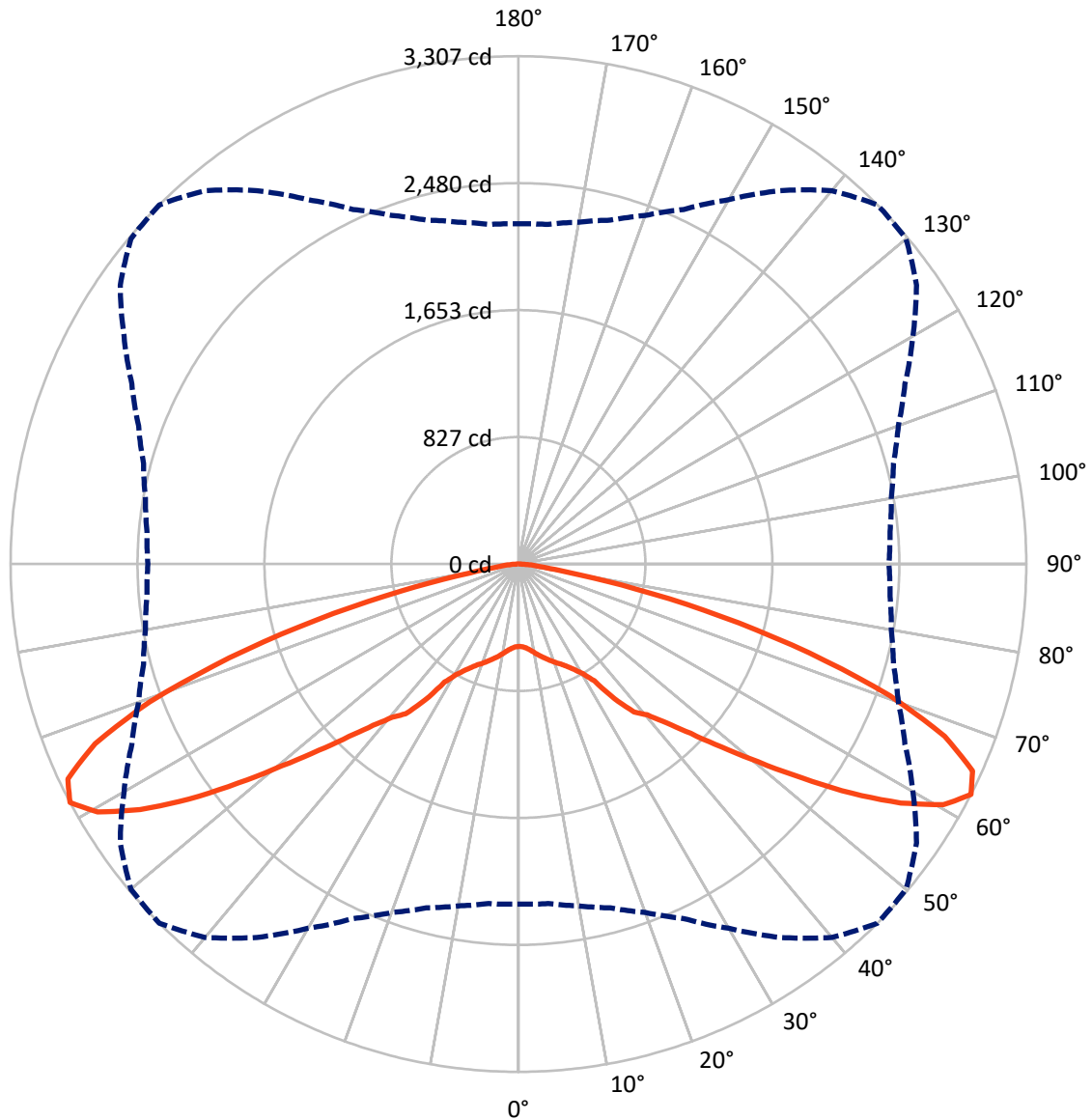
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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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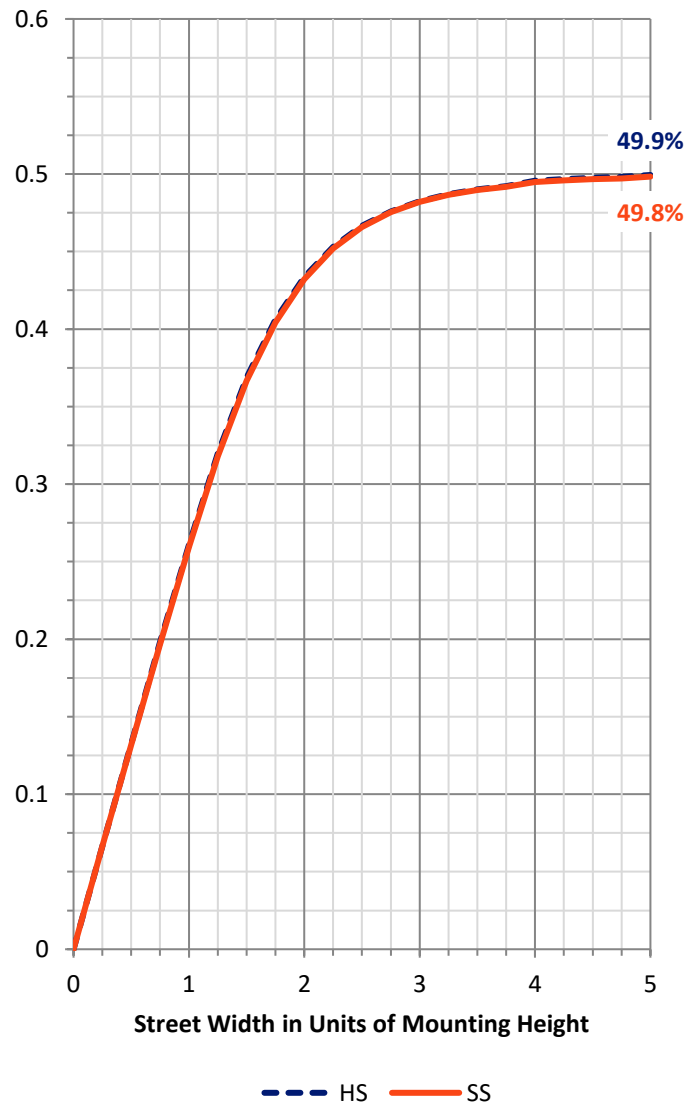
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4043.2	0.0	4043.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4043.2	0.0	4043.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	8086.5	0.0	8086.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	0.7
10°-20°	181.8	2.2
20°-30°	351.6	4.3
30°-40°	680.7	8.4
40°-50°	1229.2	15.2
50°-60°	2137.3	26.4
60°-70°	2426.4	30.0
70°-80°	940.7	11.6
80°-90°	84.9	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°	8086.5	100.0
0°-180°	8086.5	100.0



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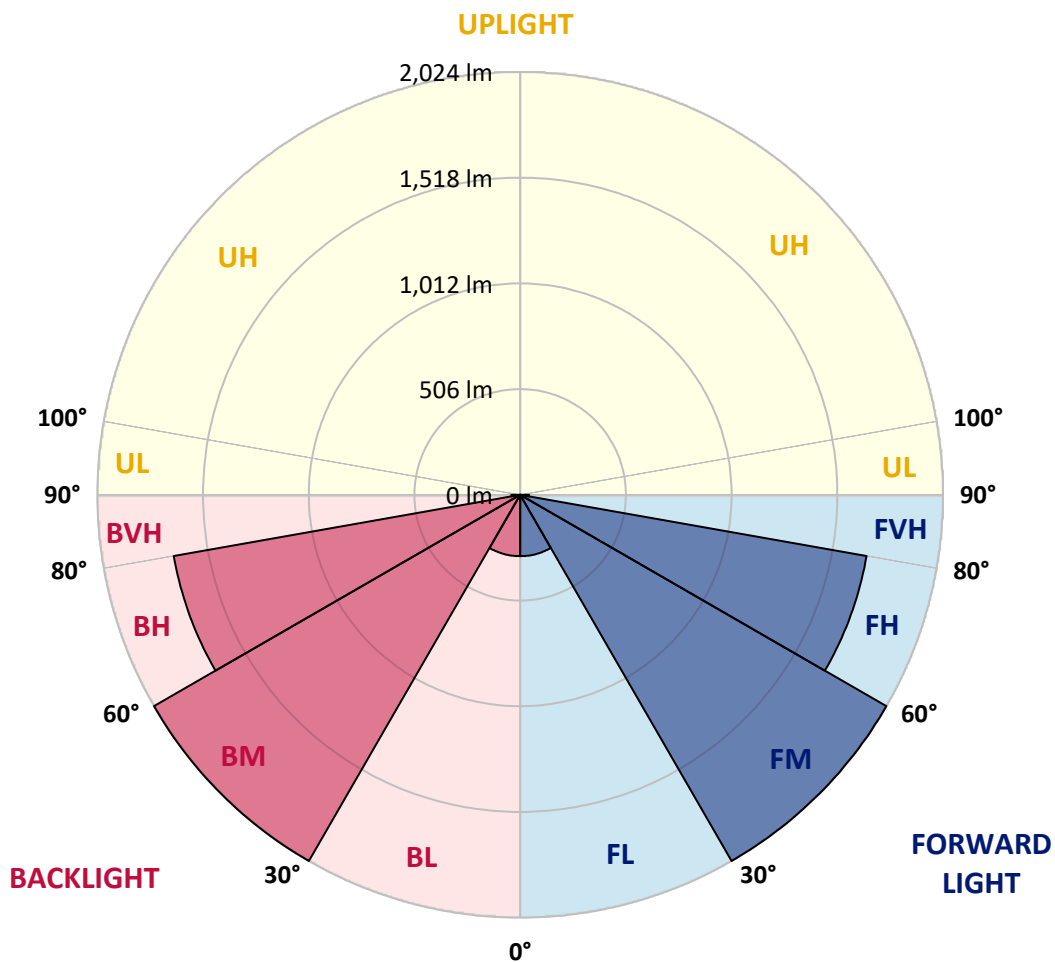
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	293.6	3.6			
FM	(30°-60°)	2023.6	25.0			
FH	(60°-80°)	1683.6	20.8			G1/1800
FVH	(80°-90°)	42.4	0.5			G1/100
BL	(0°-30°)	293.6	3.6	B1/500		
BM	(30°-60°)	2023.6	25.0	B2/2500		
BH	(60°-80°)	1683.6	20.8	B3/2500		G1/1800
BVH	(80°-90°)	42.4	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	536.8	536.8	536.8	536.8	536.8	536.8	536.8	536.8	536.8	536.8	536.8
2.5°	540.1	541.8	541.4	540.6	540.6	540.6	540.2	538.9	538.4	539.3	540.1
5°	552.7	552.7	552.7	552.7	551.8	551.8	551.0	550.2	550.6	549.8	549.3
7.5°	571.9	570.6	570.6	570.2	570.2	569.4	568.1	566.4	566.9	566.4	566.0
10°	594.5	594.9	593.6	594.9	592.8	592.4	590.8	589.9	589.4	588.2	588.2
12.5°	621.6	620.4	620.4	619.6	618.7	617.9	615.4	615.0	613.3	612.4	611.2
15°	647.2	646.8	645.0	643.4	643.0	642.2	639.2	637.5	637.2	635.0	633.4
17.5°	672.7	671.8	669.7	668.9	667.2	666.0	663.5	661.0	659.7	658.8	656.8
20°	699.8	699.0	696.9	695.2	693.2	691.5	687.8	685.7	684.4	683.1	681.4
22.5°	733.7	732.0	728.7	725.8	721.2	719.5	714.4	711.6	709.4	707.8	706.9
25°	770.4	770.9	766.3	762.6	757.1	752.5	746.2	742.9	740.8	739.1	738.7
27.5°	816.4	816.8	812.8	807.2	798.9	793.9	785.6	781.4	780.1	778.4	778.0
30°	889.2	885.4	878.4	869.6	862.0	851.2	839.0	834.9	830.7	829.4	829.4
32.5°	1023.0	1020.9	1015.0	993.3	983.3	960.7	939.4	927.3	913.4	906.8	902.6
35°	1116.6	1115.8	1111.2	1103.7	1097.4	1092.8	1080.2	1078.2	1075.7	1075.7	1079.0
37.5°	1185.6	1180.6	1179.8	1181.1	1179.4	1180.2	1190.2	1204.0	1215.7	1221.6	1220.8
40°	1287.6	1280.6	1284.7	1281.8	1278.0	1277.2	1280.6	1286.0	1291.4	1291.4	1290.2
42.5°	1421.0	1424.4	1426.0	1413.9	1406.0	1403.8	1411.8	1410.2	1415.6	1413.5	1408.1
45°	1619.2	1617.1	1614.2	1599.5	1586.9	1577.0	1579.0	1576.1	1576.6	1573.2	1569.0
47.5°	1819.0	1826.1	1814.0	1806.8	1792.6	1785.6	1791.4	1786.4	1796.0	1778.4	1770.1
50°	2013.0	2018.0	2013.8	2003.8	2003.8	2013.8	2020.9	2030.1	2043.5	2023.4	1993.4
52.5°	2171.8	2176.0	2182.3	2190.6	2211.2	2232.4	2262.6	2294.8	2320.2	2316.5	2282.2
55°	2268.8	2273.8	2284.3	2313.2	2350.0	2406.0	2474.1	2549.0	2607.5	2635.9	2610.8
57.5°	2301.4	2305.2	2333.6	2368.3	2425.6	2508.8	2623.0	2752.2	2864.6	2936.0	2924.8
60°	2293.9	2294.0	2322.8	2370.4	2450.7	2561.0	2722.4	2901.4	3073.6	3180.6	3164.8
62.5°	2214.9	2219.1	2260.5	2317.8	2414.8	2546.8	2739.2	2967.9	3174.0	3306.9	3294.0
65°	2041.8	2044.8	2089.4	2157.6	2265.9	2422.2	2632.6	2885.8	3122.1	3250.0	3225.8
67.5°	1762.1	1765.0	1801.4	1878.4	1992.9	2156.4	2383.4	2662.2	2893.4	2994.6	2921.8
70°	1401.8	1410.1	1433.6	1515.0	1602.1	1762.2	1971.2	2250.0	2468.2	2564.0	2483.7
72.5°	955.3	976.6	1005.0	1077.4	1160.6	1293.5	1459.9	1694.8	1870.0	1980.8	1909.3
75°	538.1	568.2	577.0	631.7	700.2	805.2	926.8	1095.4	1272.2	1362.1	1275.9
77.5°	232.4	257.1	268.0	293.4	347.0	390.9	464.8	578.6	715.3	778.4	675.2
80°	114.6	120.4	125.0	133.0	148.0	162.2	197.3	247.0	303.1	317.4	252.5
82.5°	88.6	92.8	100.8	107.0	110.8	114.6	117.8	124.6	130.0	132.9	125.4
85°	62.3	67.7	76.5	83.6	87.8	90.7	93.6	95.8	90.8	82.8	87.0
87.5°	16.3	21.4	29.7	32.2	36.4	38.4	37.6	38.9	35.1	25.5	28.4
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°	536.8	536.8	536.8	536.8	536.8	536.8	536.8	536.8
2.5°	539.8	539.3	539.7	539.7	539.7	539.3	539.3	539.3
5°	549.3	549.4	549.8	549.0	548.9	549.3	548.9	548.5
7.5°	565.6	565.2	565.2	564.8	565.2	564.8	564.8	564.4
10°	587.4	586.6	587.0	585.7	585.7	585.3	585.2	585.3
12.5°	610.8	609.5	610.0	608.7	606.6	607.0	607.4	607.0
15°	633.4	632.1	630.8	630.0	628.8	629.2	629.2	628.8
17.5°	656.4	653.8	653.4	652.2	651.8	651.8	651.8	652.2
20°	680.2	678.6	678.1	676.8	676.4	677.7	678.1	677.3
22.5°	705.6	704.8	705.7	704.8	706.1	706.9	707.3	706.5
25°	737.9	737.0	738.3	741.2	742.9	743.8	745.8	745.0
27.5°	779.3	778.4	781.4	785.6	788.0	792.2	794.3	795.2
30°	832.8	836.6	838.2	846.6	848.2	855.0	854.9	857.9
32.5°	910.6	917.6	930.2	943.2	961.2	974.1	974.0	980.8
35°	1081.2	1084.1	1093.6	1095.8	1099.5	1103.6	1099.5	1102.9
37.5°	1212.0	1199.0	1189.8	1176.8	1168.9	1168.9	1169.8	1168.9
40°	1278.8	1273.8	1269.7	1258.8	1257.1	1256.7	1256.7	1258.4
42.5°	1398.4	1386.3	1379.6	1370.4	1367.5	1366.6	1366.2	1367.1
45°	1554.0	1534.3	1516.3	1507.2	1499.2	1491.6	1494.2	1494.2
47.5°	1735.0	1704.4	1675.2	1659.3	1645.5	1639.2	1635.1	1633.8
50°	1955.2	1912.6	1875.0	1845.3	1825.2	1824.8	1827.0	1813.6
52.5°	2225.4	2158.0	2111.2	2071.1	2052.3	2050.2	2043.5	2036.0
55°	2524.7	2444.8	2367.5	2324.4	2299.8	2286.4	2278.4	2265.9
57.5°	2833.2	2725.8	2614.6	2545.6	2502.1	2472.0	2456.1	2449.0
60°	3071.1	2924.4	2777.6	2666.9	2594.5	2549.8	2522.2	2510.9
62.5°	3164.8	2965.7	2777.6	2632.1	2527.6	2465.8	2428.6	2412.2
65°	3053.1	2817.3	2603.3	2442.8	2326.1	2257.1	2216.6	2199.0
67.5°	2741.2	2533.0	2300.2	2140.5	2020.5	1952.4	1908.4	1895.5
70°	2298.1	2085.3	1862.9	1720.3	1613.3	1557.7	1512.1	1506.7
72.5°	1727.0	1543.5	1352.8	1235.0	1148.8	1056.8	1033.4	1045.2
75°	1107.0	935.2	765.5	659.3	580.7	492.9	459.0	467.4
77.5°	524.2	406.0	293.0	226.6	190.2	162.6	155.5	151.3
80°	194.4	157.6	139.2	132.1	127.1	122.5	119.2	115.4
82.5°	125.8	122.9	119.2	117.9	114.2	108.2	97.4	92.8
85°	94.1	94.1	89.0	89.4	86.6	79.0	69.0	63.5
87.5°	27.6	24.7	22.6	20.9	20.4	18.4	13.4	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)