

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: P179992

Luminaire Tested: **ICM-F04-LED-E1-5MQ-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P179992  
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-F04-LED-E1-5MQ-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (28) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9044.5 lumens  
Efficiency: N/A  
Efficacy: 88.5 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

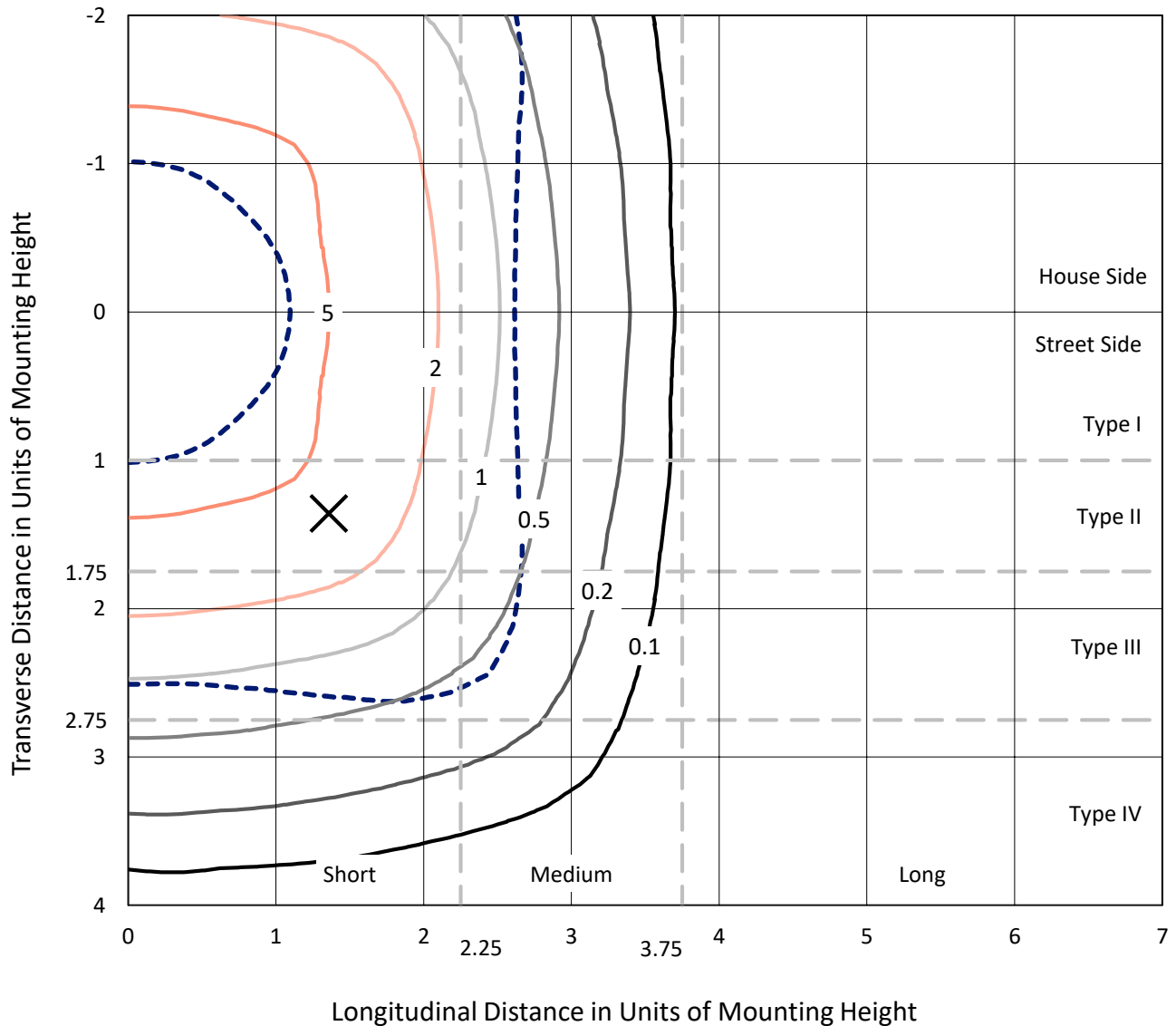
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

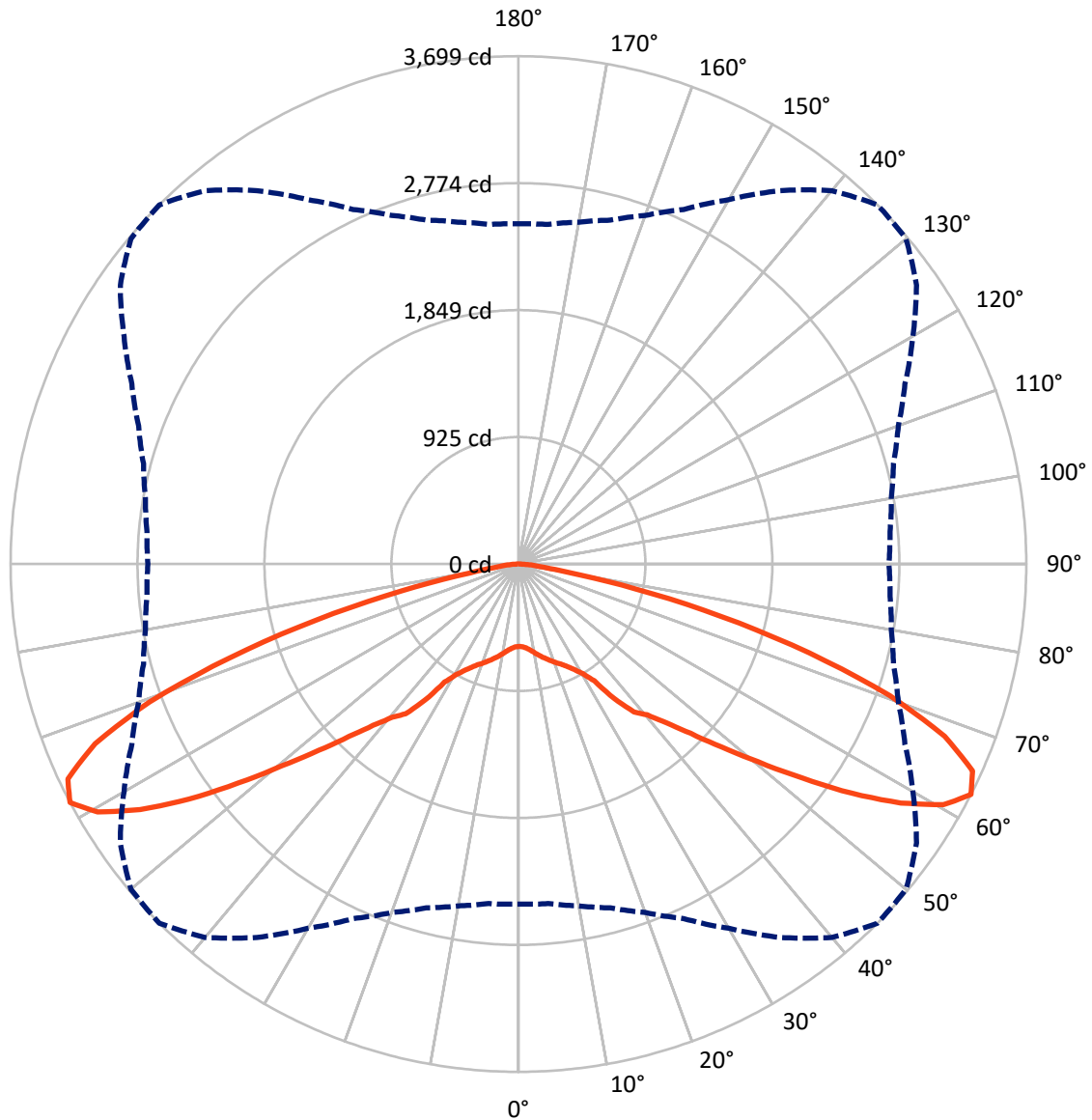
× Max cd  
 - - - 1/2 Max cd



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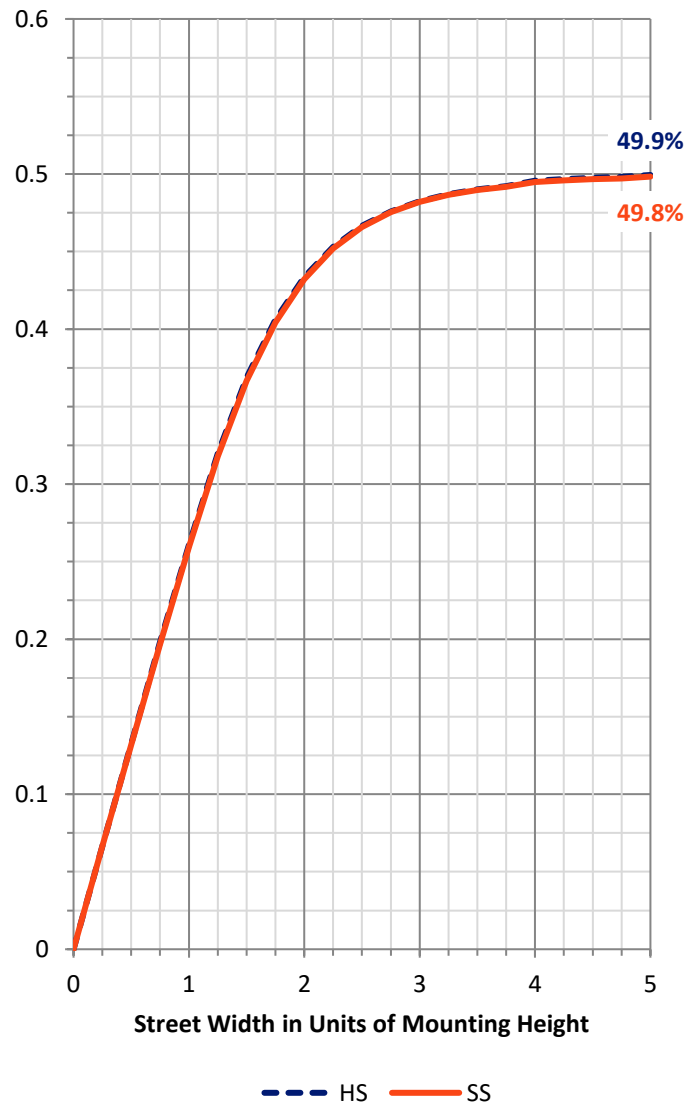
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4522.3	0.0	4522.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4522.3	0.0	4522.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9044.5	0.0	9044.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.2	0.7
10°-20°	203.4	2.2
20°-30°	393.3	4.3
30°-40°	761.4	8.4
40°-50°	1374.8	15.2
50°-60°	2390.5	26.4
60°-70°	2713.9	30.0
70°-80°	1052.2	11.6
80°-90°	94.9	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°	9044.5	100.0
0°-180°	9044.5	100.0



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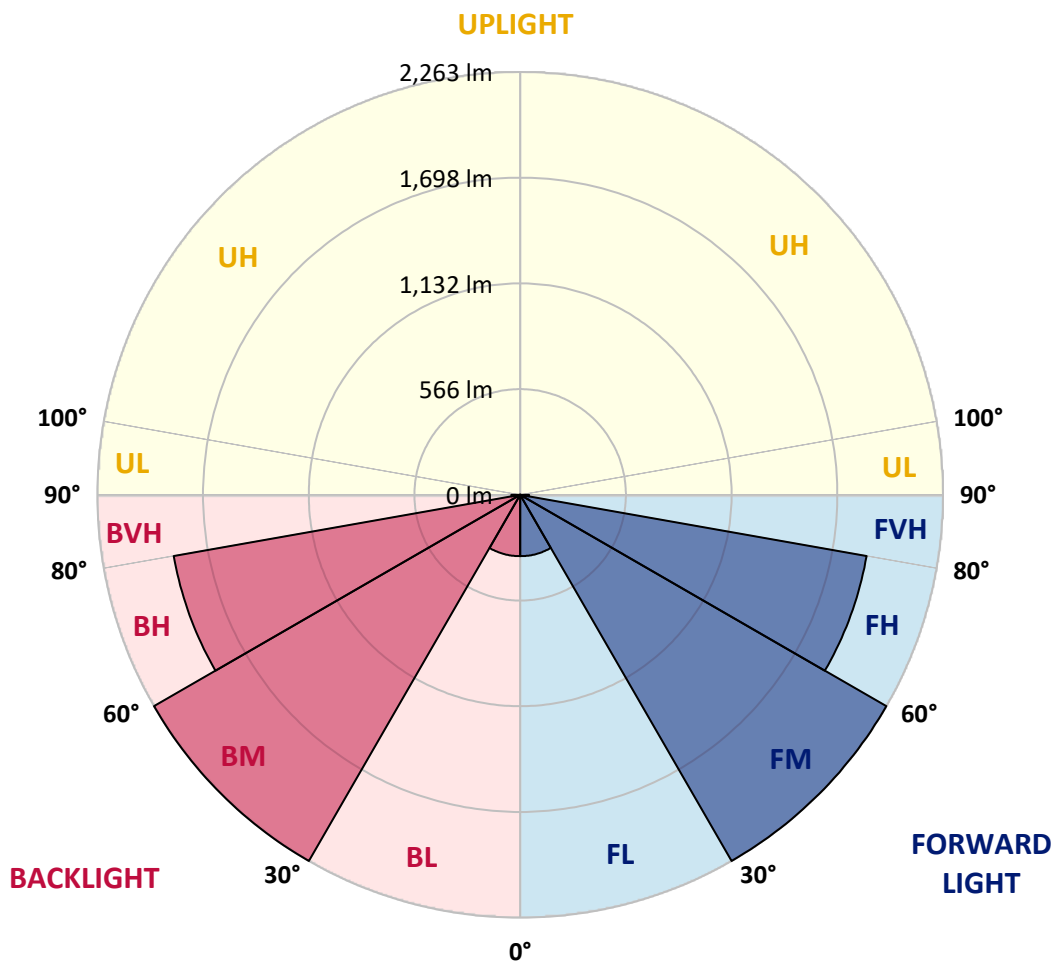
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	328.4	3.6			
FM	(30°-60°)	2263.4	25.0			
FH	(60°-80°)	1883.0	20.8			G2/5000
FVH	(80°-90°)	47.5	0.5			G1/100
BL	(0°-30°)	328.4	3.6	B1/500		
BM	(30°-60°)	2263.4	25.0	B2/2500		
BH	(60°-80°)	1883.0	20.8	B3/2500		G2/5000
BVH	(80°-90°)	47.5	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°	600.4	600.4	600.4	600.4	600.4	600.4	600.4	600.4	600.4	600.4	600.4
2.5°	604.1	606.0	605.6	604.7	604.7	604.6	604.1	602.7	602.2	603.2	604.1
5°	618.1	618.1	618.1	618.1	617.2	617.2	616.3	615.4	615.8	614.9	614.4
7.5°	639.6	638.3	638.3	637.8	637.8	636.8	635.4	633.6	634.1	633.6	633.1
10°	664.9	665.4	664.0	665.4	663.1	662.5	660.7	659.7	659.4	657.9	657.9
12.5°	695.3	694.0	694.0	693.0	692.1	691.2	688.4	687.8	686.0	685.0	683.6
15°	723.8	723.4	721.5	719.6	719.2	718.1	715.0	713.1	712.7	710.3	708.5
17.5°	752.4	751.4	749.0	748.1	746.2	744.9	742.1	739.3	737.9	736.9	734.6
20°	782.7	781.8	779.5	777.7	775.3	773.4	769.2	766.9	765.4	764.1	762.2
22.5°	820.7	818.8	815.1	811.7	806.6	804.7	799.1	795.8	793.5	791.6	790.7
25°	861.8	862.2	857.1	852.8	846.9	841.7	834.6	830.9	828.7	826.7	826.2
27.5°	913.2	913.7	909.0	902.9	893.6	888.0	878.6	873.9	872.6	870.7	870.1
30°	994.6	990.3	982.4	972.7	964.2	952.0	938.4	933.8	929.1	927.6	927.6
32.5°	1144.2	1141.9	1135.4	1111.1	1099.7	1074.6	1050.6	1037.2	1021.7	1014.2	1009.5
35°	1248.9	1248.0	1242.8	1234.4	1227.4	1222.3	1208.2	1206.0	1203.2	1203.2	1206.9
37.5°	1326.1	1320.5	1319.5	1320.9	1319.1	1320.0	1331.3	1346.7	1359.8	1366.3	1365.4
40°	1440.2	1432.2	1436.9	1433.7	1429.4	1428.5	1432.2	1438.3	1444.5	1444.5	1443.0
42.5°	1589.4	1593.1	1595.0	1581.4	1572.5	1570.1	1579.1	1577.2	1583.3	1580.9	1574.9
45°	1811.0	1808.7	1805.4	1789.0	1775.0	1763.7	1766.2	1762.8	1763.4	1759.5	1754.9
47.5°	2034.5	2042.4	2028.8	2020.9	2005.0	1997.1	2003.6	1998.0	2008.8	1989.1	1979.7
50°	2251.5	2257.1	2252.5	2241.1	2241.1	2252.5	2260.4	2270.7	2285.6	2263.2	2229.5
52.5°	2429.1	2433.9	2440.9	2450.2	2473.1	2496.9	2530.6	2566.6	2595.2	2590.9	2552.6
55°	2537.7	2543.3	2555.0	2587.2	2628.3	2691.1	2767.3	2851.0	2916.4	2948.2	2920.2
57.5°	2574.2	2578.2	2610.2	2648.9	2712.9	2806.0	2933.7	3078.2	3203.9	3283.9	3271.3
60°	2565.8	2565.7	2598.0	2651.3	2741.0	2864.5	3044.9	3245.0	3437.8	3557.4	3539.7
62.5°	2477.3	2482.0	2528.3	2592.4	2700.9	2848.6	3063.6	3319.5	3550.0	3698.6	3684.2
65°	2283.7	2287.0	2337.0	2413.2	2534.3	2709.3	2944.4	3227.8	3492.0	3635.1	3608.0
67.5°	1970.9	1974.2	2014.9	2100.9	2229.0	2411.9	2665.7	2977.7	3236.2	3349.4	3268.1
70°	1567.9	1577.2	1603.4	1694.5	1791.8	1971.0	2204.7	2516.7	2760.7	2867.7	2778.0
72.5°	1068.5	1092.3	1124.1	1205.0	1298.1	1446.7	1632.8	1895.6	2091.5	2215.5	2135.5
75°	601.8	635.5	645.3	706.6	783.3	900.6	1036.7	1225.1	1422.9	1523.4	1427.2
77.5°	260.0	287.6	299.7	328.3	388.1	437.2	520.0	647.2	800.0	870.7	755.2
80°	128.1	134.7	139.8	148.7	165.6	181.4	220.7	276.4	339.0	354.9	282.4
82.5°	99.1	103.8	112.7	119.6	123.9	128.2	131.9	139.3	145.5	148.7	140.3
85°	69.7	75.7	85.6	93.5	98.2	101.5	104.7	107.1	101.5	92.7	97.3
87.5°	18.2	23.8	33.2	36.0	40.7	43.0	42.0	43.5	39.3	28.5	31.8
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°	600.4	600.4	600.4	600.4	600.4	600.4	600.4	600.4
2.5°	603.7	603.2	603.7	603.7	603.7	603.2	603.2	603.2
5°	614.4	614.4	614.9	614.0	614.0	614.4	614.0	613.5
7.5°	632.7	632.2	632.2	631.7	632.2	631.6	631.7	631.3
10°	656.9	656.0	656.6	655.1	655.1	654.7	654.6	654.6
12.5°	683.2	681.7	682.2	680.8	678.5	678.9	679.4	679.0
15°	708.5	707.0	705.6	704.7	703.3	703.8	703.7	703.3
17.5°	734.1	731.4	730.9	729.5	729.0	729.0	729.0	729.5
20°	760.7	758.9	758.4	757.0	756.6	758.0	758.4	757.5
22.5°	789.2	788.3	789.3	788.4	789.8	790.7	791.2	790.2
25°	825.3	824.4	825.8	829.0	830.9	831.8	834.2	833.2
27.5°	871.6	870.7	873.9	878.6	881.4	886.1	888.4	889.4
30°	931.4	935.6	937.5	946.8	948.7	956.3	956.3	959.5
32.5°	1018.4	1026.4	1040.4	1054.9	1075.0	1089.5	1089.5	1096.9
35°	1209.1	1212.5	1223.3	1225.5	1229.8	1234.5	1229.8	1233.5
37.5°	1355.5	1341.0	1330.8	1316.3	1307.4	1307.4	1308.3	1307.4
40°	1430.3	1424.8	1420.1	1407.9	1406.1	1405.6	1405.6	1407.5
42.5°	1564.1	1550.5	1543.1	1532.8	1529.5	1528.6	1528.1	1529.0
45°	1738.1	1716.1	1696.0	1685.7	1676.8	1668.4	1671.3	1671.2
47.5°	1940.5	1906.4	1873.7	1855.9	1840.4	1833.5	1828.8	1827.4
50°	2187.0	2139.3	2097.1	2064.0	2041.5	2041.0	2043.4	2028.4
52.5°	2488.9	2413.8	2361.3	2316.4	2295.5	2293.0	2285.6	2277.2
55°	2823.7	2734.5	2648.0	2599.8	2572.2	2557.3	2548.4	2534.3
57.5°	3168.9	3048.8	2924.3	2847.2	2798.5	2764.9	2747.1	2739.2
60°	3435.0	3270.8	3106.7	2982.7	2901.9	2851.8	2821.0	2808.4
62.5°	3539.7	3317.1	3106.7	2944.0	2827.1	2757.9	2716.3	2698.1
65°	3414.9	3151.1	2911.7	2732.1	2601.7	2524.6	2479.2	2459.5
67.5°	3066.1	2833.1	2572.7	2394.1	2259.9	2183.6	2134.5	2120.1
70°	2570.4	2332.3	2083.5	1924.1	1804.5	1742.2	1691.4	1685.2
72.5°	1931.6	1726.3	1513.1	1381.2	1284.9	1182.1	1155.9	1169.0
75°	1238.1	1046.0	856.2	737.4	649.5	551.3	513.5	522.8
77.5°	586.4	454.0	327.8	253.4	212.8	182.0	174.0	169.3
80°	217.5	176.3	155.7	147.8	142.1	136.9	133.2	129.0
82.5°	140.7	137.5	133.3	131.9	127.6	121.1	108.9	103.8
85°	105.2	105.2	99.5	100.1	96.7	88.4	77.1	71.1
87.5°	30.9	27.5	25.3	23.4	22.9	20.6	15.0	13.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)