

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: P180053

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180053  
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  
Description: ICON SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (28) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9581.2 lumens  
Efficiency: N/A  
Efficacy: 93.7 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

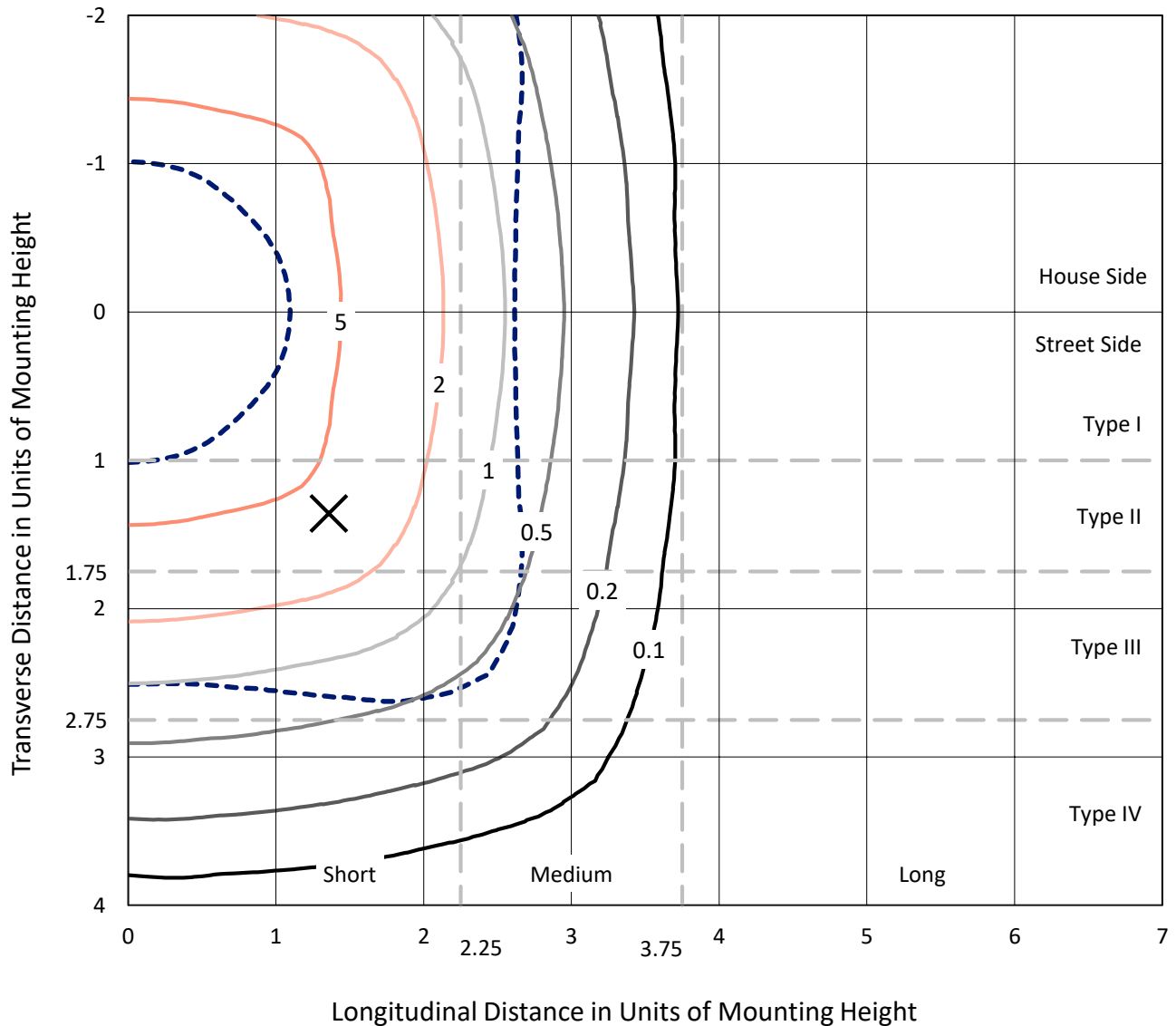
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

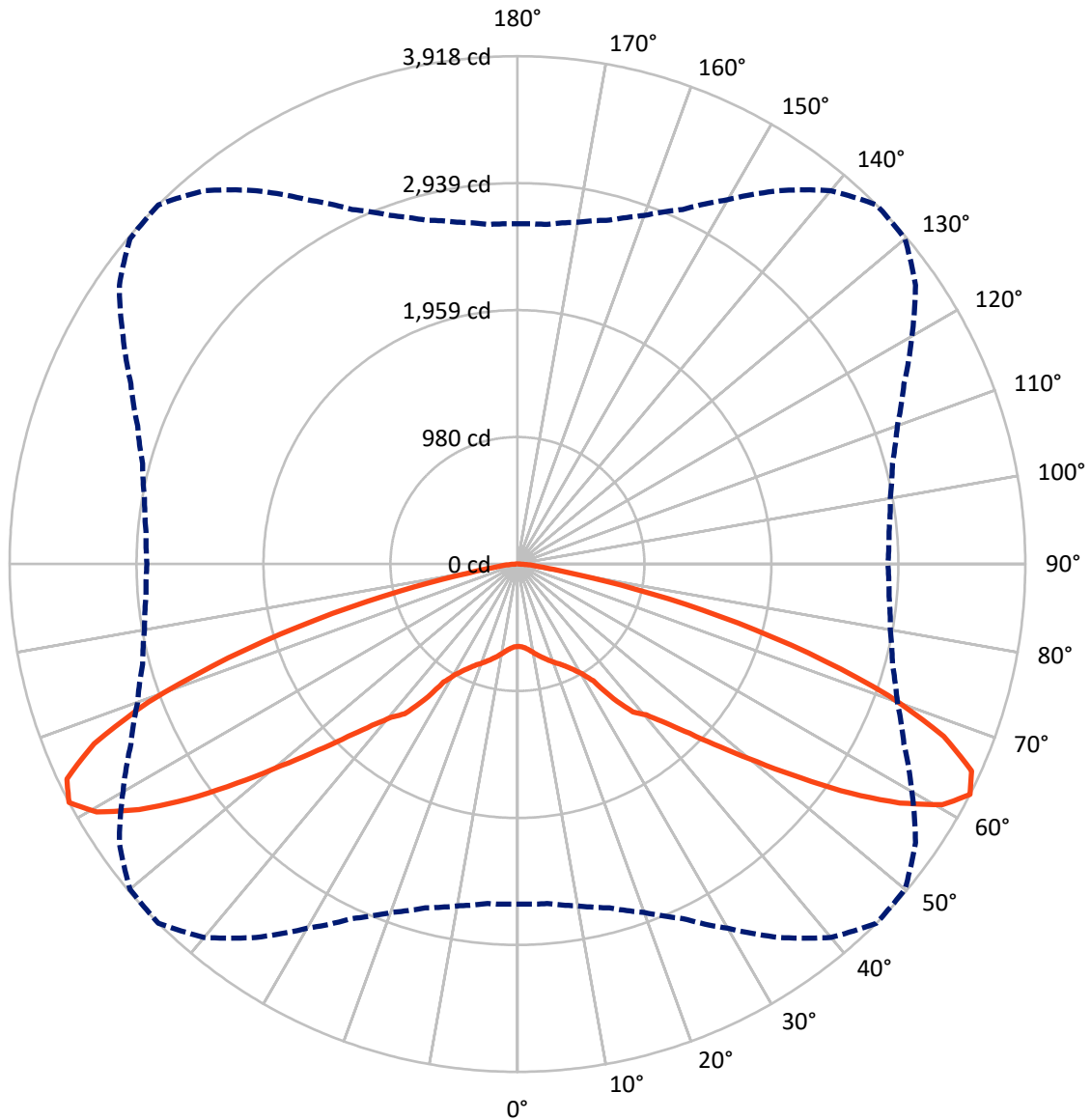
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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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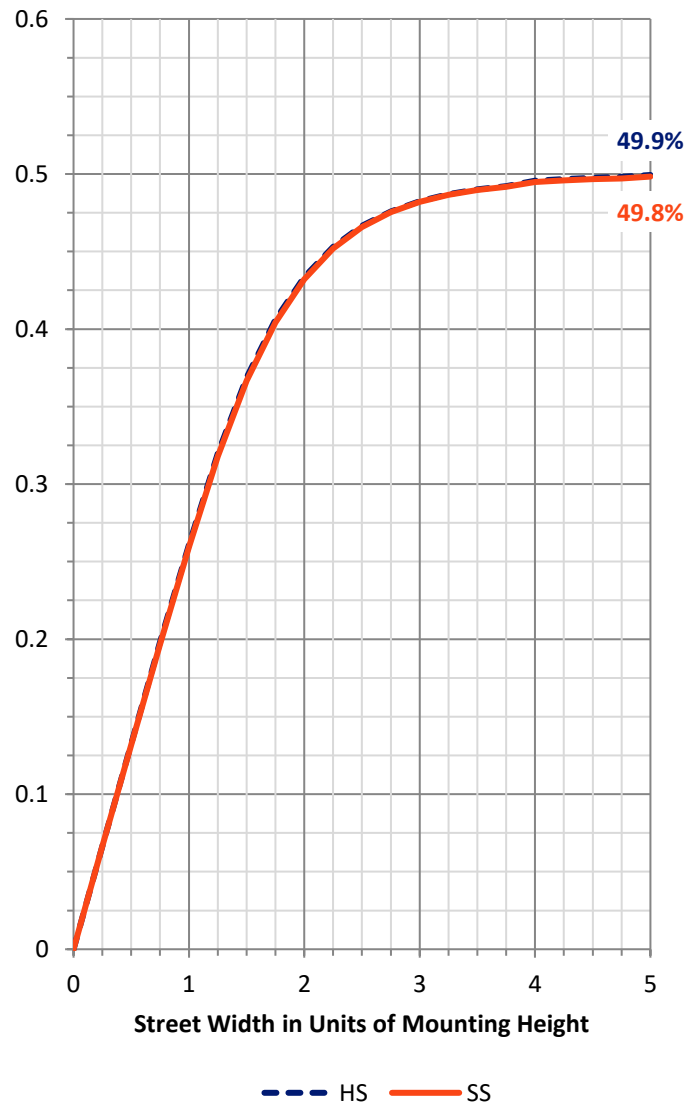
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4790.6	0.0	4790.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4790.6	0.0	4790.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9581.2	0.0	9581.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.7	0.7
10°-20°	215.5	2.2
20°-30°	416.6	4.3
30°-40°	806.6	8.4
40°-50°	1456.4	15.2
50°-60°	2532.4	26.4
60°-70°	2874.9	30.0
70°-80°	1114.6	11.6
80°-90°	100.6	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°	9581.2	100.0
0°-180°	9581.2	100.0



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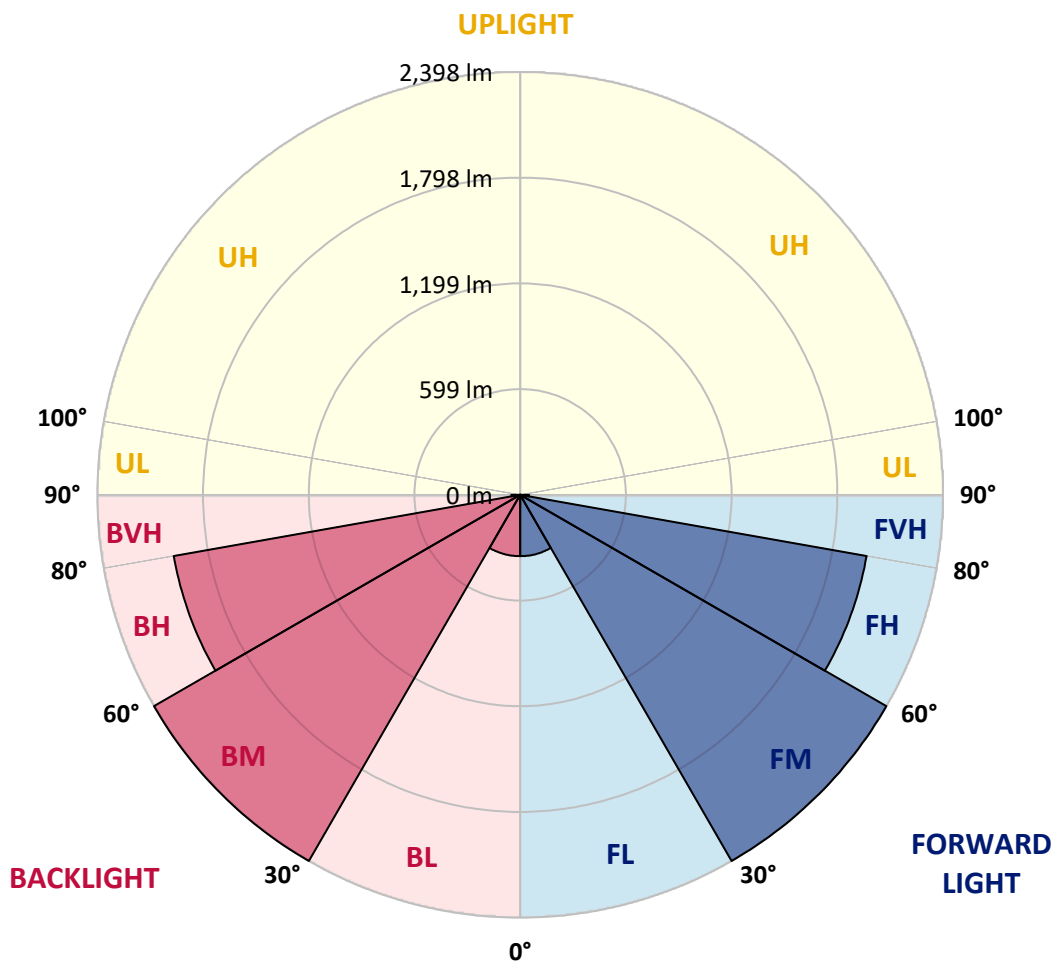
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	347.9	3.6			
FM (30°-60°)	2397.7	25.0			
FH (60°-80°)	1994.8	20.8			G2/5000
FVH (80°-90°)	50.3	0.5			G1/100
BL (0°-30°)	347.9	3.6	B1/500		
BM (30°-60°)	2397.7	25.0	B2/2500		
BH (60°-80°)	1994.8	20.8	B3/2500		G2/5000
BVH (80°-90°)	50.3	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°	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
2.5°	640.0	642.0	641.5	640.5	640.5	640.5	640.0	638.5	638.0	639.0	640.0
5°	654.8	654.8	654.8	654.8	653.8	653.8	652.9	651.9	652.4	651.4	650.8
7.5°	677.7	676.2	676.2	675.7	675.7	674.7	673.2	671.2	671.6	671.2	670.7
10°	704.4	704.9	703.4	704.9	702.4	701.9	699.9	698.9	698.4	696.9	696.9
12.5°	736.6	735.1	735.1	734.1	733.1	732.2	729.2	728.7	726.7	725.7	724.2
15°	766.8	766.3	764.3	762.4	761.8	760.8	757.4	755.4	754.9	752.4	750.4
17.5°	797.0	796.0	793.6	792.6	790.6	789.1	786.1	783.2	781.7	780.7	778.2
20°	829.2	828.2	825.8	823.8	821.3	819.3	814.8	812.4	810.9	809.4	807.4
22.5°	869.4	867.4	863.4	859.9	854.4	852.5	846.5	843.0	840.6	838.6	837.6
25°	913.0	913.4	908.0	903.5	897.1	891.6	884.2	880.2	877.8	875.8	875.2
27.5°	967.4	967.9	963.0	956.5	946.6	940.6	930.8	925.8	924.3	922.4	921.8
30°	1053.6	1049.2	1040.7	1030.3	1021.4	1008.5	994.2	989.2	984.2	982.8	982.8
32.5°	1212.1	1209.6	1202.7	1176.9	1165.0	1138.3	1113.0	1098.7	1082.3	1074.4	1069.4
35°	1323.0	1322.0	1316.6	1307.7	1300.2	1294.8	1280.0	1277.5	1274.5	1274.6	1278.4
37.5°	1404.8	1398.8	1397.9	1399.4	1397.4	1398.4	1410.2	1426.6	1440.4	1447.4	1446.4
40°	1525.6	1517.2	1522.2	1518.7	1514.2	1513.3	1517.2	1523.6	1530.1	1530.1	1528.6
42.5°	1683.6	1687.6	1689.6	1675.2	1665.8	1663.4	1672.8	1670.8	1677.2	1674.8	1668.3
45°	1918.4	1916.0	1912.5	1895.2	1880.4	1868.4	1870.9	1867.4	1868.0	1864.0	1859.0
47.5°	2155.2	2163.6	2149.2	2140.9	2124.0	2115.6	2122.6	2116.6	2128.0	2107.2	2097.3
50°	2385.0	2391.0	2386.0	2374.2	2374.2	2386.0	2394.5	2405.4	2421.2	2397.4	2361.8
52.5°	2573.3	2578.2	2585.6	2595.6	2619.8	2645.2	2680.8	2718.9	2749.1	2744.7	2704.0
55°	2688.2	2694.2	2706.5	2740.8	2784.4	2850.7	2931.4	3020.1	3089.4	3123.2	3093.4
57.5°	2726.8	2731.4	2765.0	2806.2	2874.0	2972.5	3107.8	3260.8	3394.1	3478.8	3465.4
60°	2718.0	2718.0	2752.1	2808.6	2903.7	3034.4	3225.6	3437.7	3641.8	3768.6	3749.7
62.5°	2624.4	2629.3	2678.3	2746.2	2861.1	3017.6	3245.5	3516.4	3760.6	3918.2	3902.8
65°	2419.2	2422.7	2475.8	2556.4	2684.8	2870.0	3119.1	3419.4	3699.2	3850.8	3822.0
67.5°	2087.8	2091.3	2134.4	2225.6	2361.3	2555.0	2824.0	3154.4	3428.3	3548.2	3462.0
70°	1660.9	1670.8	1698.5	1795.2	1898.2	2087.8	2335.6	2666.0	2924.5	3037.9	2942.8
72.5°	1131.8	1157.1	1190.8	1276.5	1375.0	1532.6	1729.8	2008.1	2215.6	2347.0	2262.2
75°	637.5	673.2	683.6	748.4	829.7	954.0	1098.2	1297.8	1507.3	1613.8	1511.8
77.5°	275.4	304.6	317.6	347.7	411.2	463.2	550.8	685.6	847.6	922.4	800.0
80°	135.7	142.7	148.1	157.6	175.4	192.2	233.8	292.8	359.2	376.0	299.2
82.5°	105.0	110.0	119.4	126.8	131.2	135.8	139.7	147.6	154.0	157.6	148.6
85°	73.8	80.2	90.6	99.1	104.0	107.5	111.0	113.4	107.5	98.0	103.0
87.5°	19.3	25.2	35.2	38.2	43.1	45.6	44.6	46.0	41.6	30.2	33.7
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°	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
2.5°	639.5	639.0	639.5	639.5	639.4	639.0	639.0	639.0
5°	650.9	650.9	651.4	650.4	650.4	650.9	650.4	649.9
7.5°	670.2	669.7	669.7	669.2	669.7	669.2	669.2	668.7
10°	696.0	695.0	695.4	694.0	694.0	693.5	693.4	693.5
12.5°	723.7	722.2	722.7	721.2	718.8	719.2	719.8	719.2
15°	750.4	749.0	747.5	746.5	745.0	745.5	745.4	745.0
17.5°	777.7	774.8	774.2	772.8	772.2	772.2	772.2	772.7
20°	806.0	804.0	803.4	802.0	801.4	803.0	803.4	802.5
22.5°	836.2	835.2	836.2	835.2	836.6	837.6	838.2	837.1
25°	874.3	873.3	874.8	878.2	880.2	881.2	883.7	882.7
27.5°	923.3	922.4	925.8	930.8	933.7	938.7	941.2	942.1
30°	986.7	991.2	993.2	1003.0	1005.0	1013.0	1013.0	1016.4
32.5°	1078.8	1087.2	1102.2	1117.5	1138.8	1154.2	1154.2	1162.1
35°	1280.9	1284.4	1295.8	1298.3	1302.8	1307.7	1302.8	1306.7
37.5°	1436.0	1420.6	1409.8	1394.4	1385.0	1384.9	1386.0	1385.0
40°	1515.2	1509.3	1504.4	1491.4	1489.5	1489.0	1489.0	1491.0
42.5°	1657.0	1642.6	1634.6	1623.8	1620.3	1619.2	1618.8	1619.8
45°	1841.2	1817.9	1796.6	1785.7	1776.3	1767.4	1770.4	1770.4
47.5°	2055.7	2019.5	1984.8	1966.0	1949.6	1942.2	1937.2	1935.8
50°	2316.8	2266.2	2221.6	2186.4	2162.6	2162.2	2164.6	2148.8
52.5°	2636.7	2557.0	2501.4	2453.9	2431.6	2429.2	2421.2	2412.3
55°	2991.4	2896.8	2805.2	2754.1	2724.9	2709.0	2699.6	2684.8
57.5°	3357.0	3229.6	3097.9	3016.2	2964.6	2929.0	2910.2	2901.7
60°	3638.8	3464.9	3291.0	3159.8	3074.1	3021.1	2988.4	2975.0
62.5°	3749.7	3514.0	3291.0	3118.7	2994.8	2921.5	2877.4	2858.1
65°	3617.4	3338.1	3084.5	2894.3	2756.0	2674.4	2626.3	2605.5
67.5°	3248.0	3001.3	2725.4	2536.1	2394.0	2313.2	2261.2	2245.9
70°	2722.9	2470.8	2207.2	2038.3	1911.5	1845.6	1791.6	1785.2
72.5°	2046.2	1828.8	1602.9	1463.2	1361.2	1252.2	1224.5	1238.4
75°	1311.7	1108.1	907.0	781.2	688.0	584.0	543.9	553.8
77.5°	621.2	481.0	347.2	268.5	225.4	192.7	184.2	179.3
80°	230.4	186.8	165.0	156.6	150.6	145.1	141.1	136.7
82.5°	149.1	145.6	141.2	139.6	135.2	128.3	115.4	110.0
85°	111.4	111.4	105.5	106.0	102.6	93.6	81.7	75.3
87.5°	32.7	29.2	26.8	24.8	24.2	21.8	15.9	13.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)