

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: P179988

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P179988  
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  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (84) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11995.5 lumens  
Efficiency: N/A  
Efficacy: 123.4 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

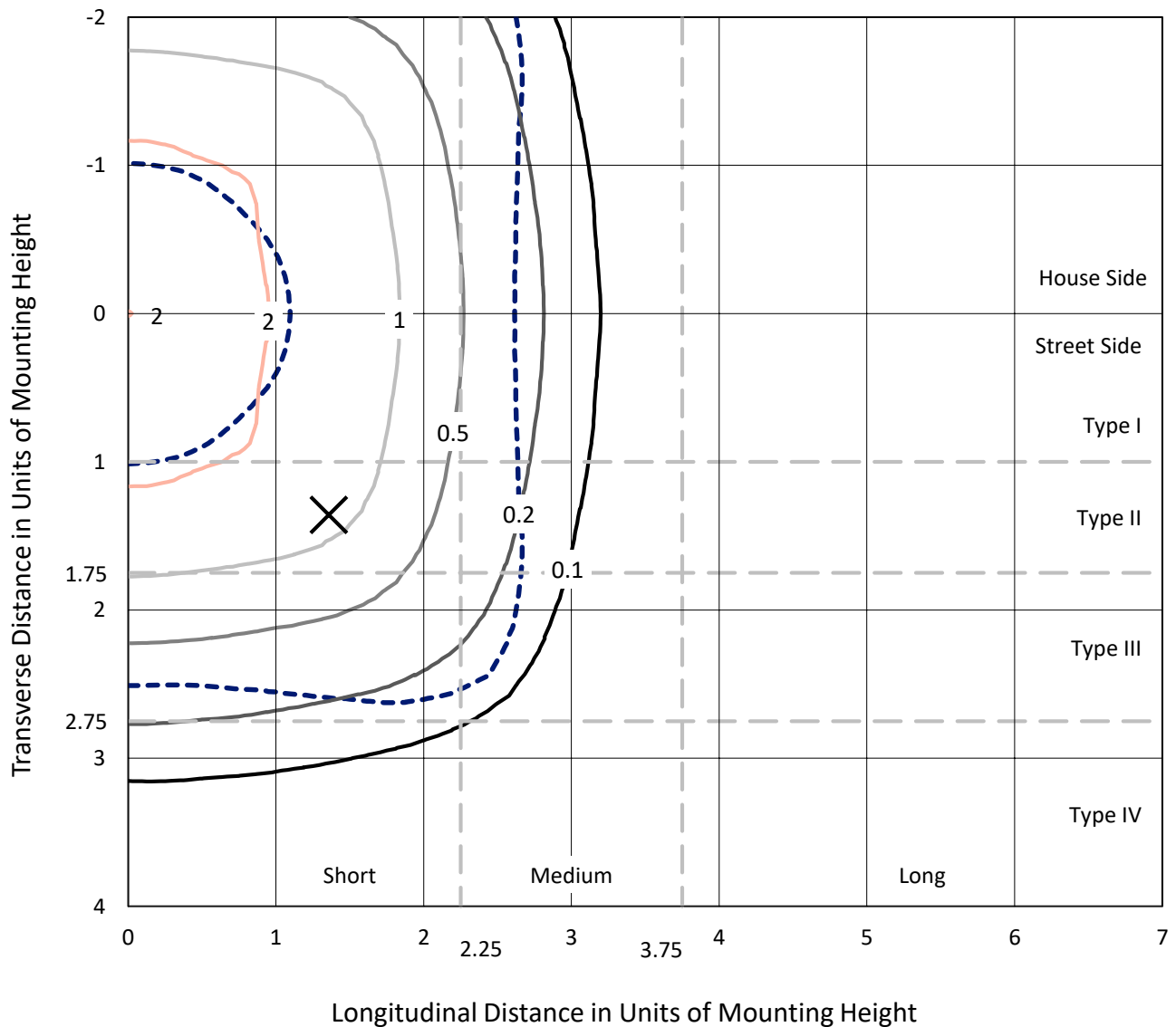


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### Iso-Footcandle Lines of Horizontal Illumination

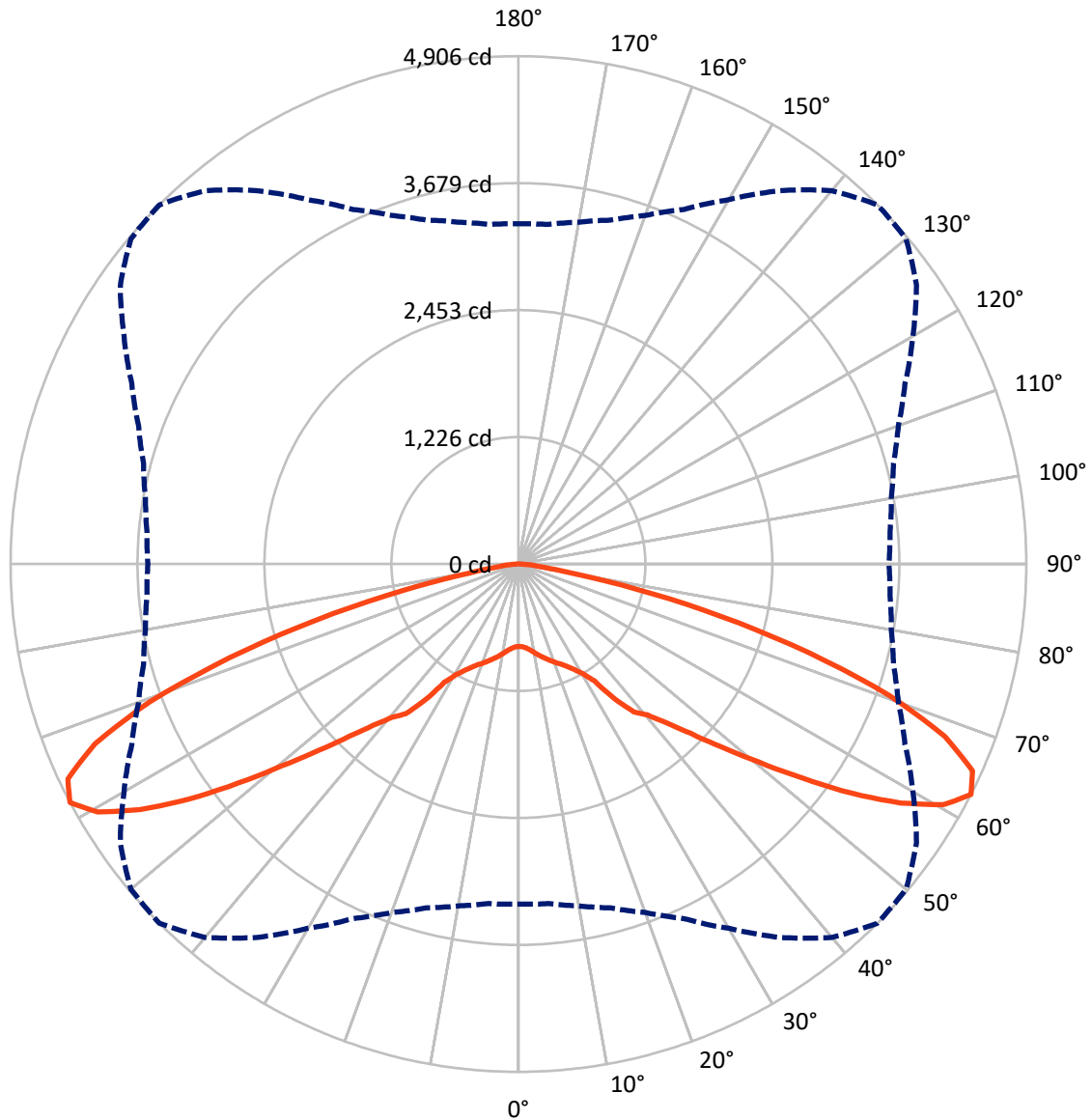
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.3 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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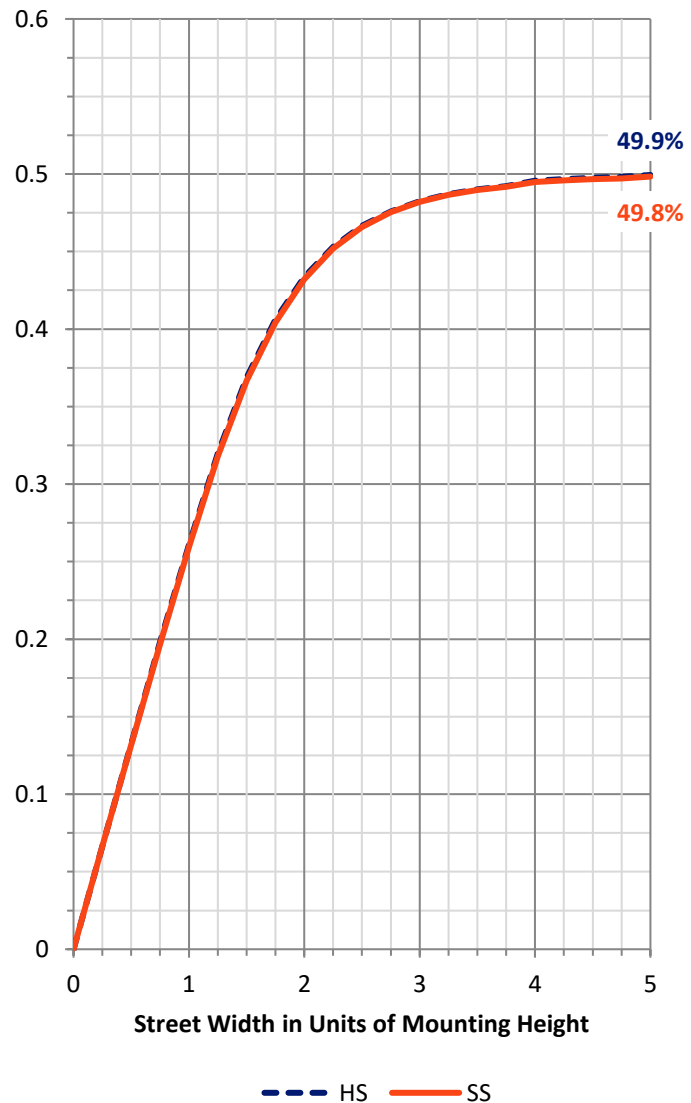
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5997.7	0.0	5997.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5997.7	0.0	5997.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11995.5	0.0	11995.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.8	0.7
10°-20°	269.7	2.2
20°-30°	521.6	4.3
30°-40°	1009.8	8.4
40°-50°	1823.3	15.2
50°-60°	3170.5	26.4
60°-70°	3599.4	30.0
70°-80°	1395.5	11.6
80°-90°	125.9	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°	11995.5	100.0
0°-180°	11995.5	100.0



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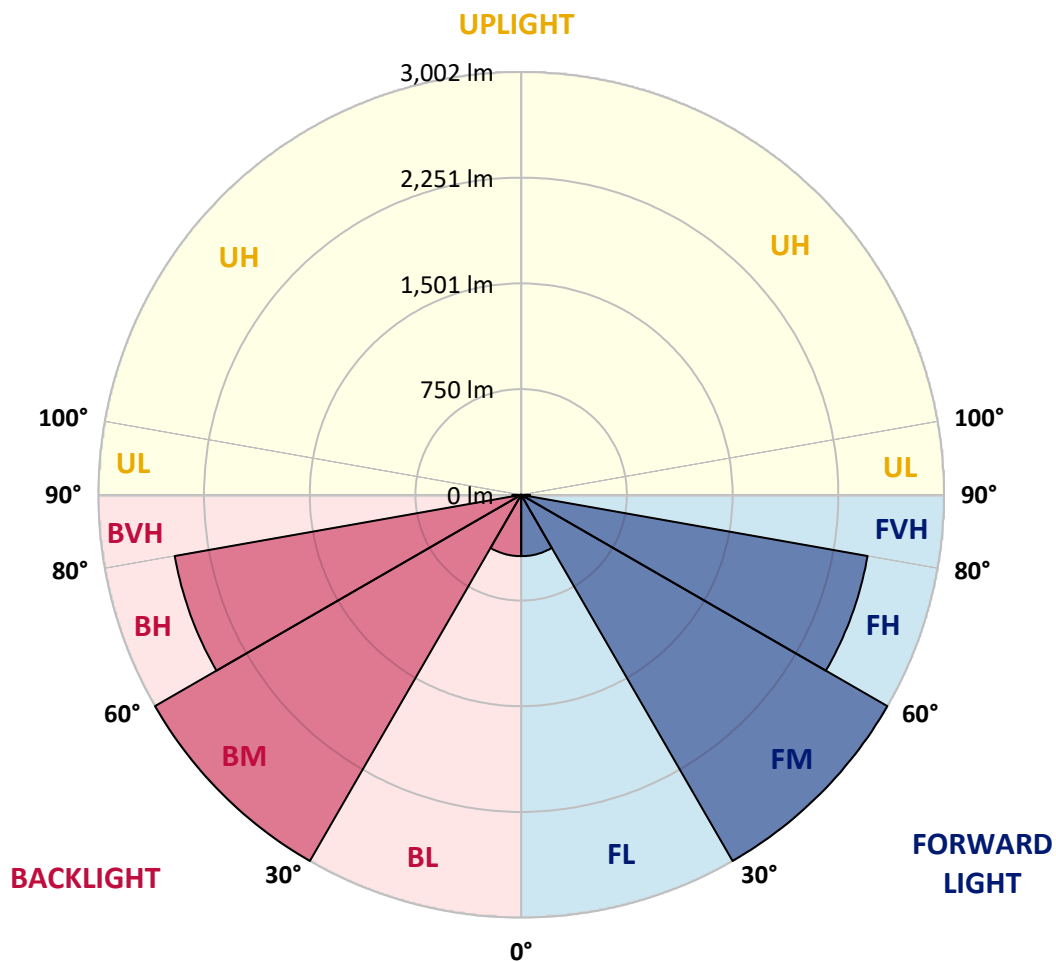
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	435.5	3.6			
FM	(30°-60°)	3001.8	25.0			
FH	(60°-80°)	2497.4	20.8			G2/5000
FVH	(80°-90°)	62.9	0.5			G1/100
BL	(0°-30°)	435.5	3.6	B1/500		
BM	(30°-60°)	3001.8	25.0	B3/5000		
BH	(60°-80°)	2497.4	20.8	B3/2500		G2/5000
BVH	(80°-90°)	62.9	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°	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3
2.5°	801.3	803.7	803.1	801.9	801.9	801.9	801.3	799.4	798.8	800.0	801.3
5°	819.9	819.9	819.9	819.9	818.6	818.6	817.3	816.2	816.7	815.4	814.9
7.5°	848.4	846.5	846.5	845.9	846.0	844.7	842.8	840.3	840.9	840.3	839.6
10°	881.9	882.4	880.6	882.5	879.4	878.8	876.3	875.0	874.4	872.6	872.6
12.5°	922.2	920.4	920.4	919.1	917.8	916.7	912.9	912.2	909.8	908.6	906.7
15°	960.0	959.4	956.8	954.4	953.8	952.6	948.3	945.7	945.1	942.0	939.5
17.5°	997.9	996.7	993.5	992.2	989.8	987.9	984.2	980.5	978.6	977.3	974.3
20°	1038.1	1036.9	1033.8	1031.4	1028.3	1025.7	1020.2	1017.1	1015.3	1013.4	1010.8
22.5°	1088.4	1085.9	1080.9	1076.7	1069.8	1067.3	1059.9	1055.4	1052.4	1049.9	1048.8
25°	1143.0	1143.6	1136.8	1131.2	1123.1	1116.3	1107.0	1102.0	1099.0	1096.5	1095.8
27.5°	1211.2	1211.8	1205.6	1197.6	1185.1	1177.7	1165.2	1159.1	1157.2	1154.7	1154.1
30°	1319.1	1313.5	1302.9	1289.9	1278.8	1262.6	1244.7	1238.4	1232.3	1230.4	1230.3
32.5°	1517.5	1514.4	1505.7	1473.5	1458.6	1425.1	1393.5	1375.5	1355.1	1345.1	1339.0
35°	1656.4	1655.2	1648.4	1637.2	1627.9	1621.0	1602.4	1599.5	1595.7	1595.7	1600.6
37.5°	1758.8	1751.3	1750.1	1751.9	1749.5	1750.7	1765.6	1786.1	1803.5	1812.1	1810.8
40°	1910.1	1899.5	1905.8	1901.4	1895.8	1894.5	1899.5	1907.5	1915.7	1915.6	1913.8
42.5°	2107.9	2112.9	2115.4	2097.4	2085.6	2082.4	2094.3	2091.7	2099.9	2096.8	2088.7
45°	2401.9	2398.8	2394.4	2372.7	2354.1	2339.3	2342.3	2338.1	2338.6	2333.6	2327.5
47.5°	2698.2	2708.9	2690.9	2680.4	2659.3	2648.8	2657.4	2650.0	2664.2	2638.2	2625.7
50°	2986.1	2993.5	2987.3	2972.4	2972.4	2987.3	2997.8	3011.5	3031.3	3001.5	2956.9
52.5°	3221.8	3227.9	3237.2	3249.7	3280.0	3311.6	3356.3	3404.1	3441.9	3436.3	3385.4
55°	3365.6	3373.0	3388.5	3431.3	3486.0	3569.0	3670.1	3781.1	3867.9	3910.1	3872.9
57.5°	3414.0	3419.6	3461.8	3513.1	3598.2	3721.5	3890.8	4082.4	4249.3	4355.4	4338.6
60°	3402.8	3402.8	3445.6	3516.3	3635.4	3799.1	4038.4	4303.8	4559.5	4718.2	4694.6
62.5°	3285.6	3291.7	3353.2	3438.2	3582.0	3778.1	4063.3	4402.5	4708.2	4905.5	4886.3
65°	3028.9	3033.1	3099.6	3200.6	3361.2	3593.1	3905.1	4281.0	4631.3	4821.1	4785.1
67.5°	2614.0	2618.3	2672.2	2786.3	2956.3	3198.7	3535.6	3949.2	4292.1	4442.2	4334.4
70°	2079.5	2091.7	2126.5	2247.5	2376.4	2614.0	2924.0	3337.7	3661.4	3803.4	3684.3
72.5°	1417.1	1448.7	1490.9	1598.1	1721.5	1918.8	2165.6	2514.2	2774.0	2938.3	2832.2
75°	798.1	842.8	855.8	937.1	1038.8	1194.4	1374.9	1624.8	1887.1	2020.5	1892.7
77.5°	344.7	381.4	397.5	435.4	514.8	579.9	689.6	858.2	1061.1	1154.8	1001.5
80°	169.9	178.6	185.5	197.2	219.5	240.6	292.7	366.5	449.7	470.7	374.6
82.5°	131.5	137.7	149.4	158.8	164.3	170.0	174.9	184.7	192.8	197.2	186.0
85°	92.5	100.5	113.5	124.0	130.2	134.6	138.9	142.0	134.5	122.8	128.9
87.5°	24.2	31.6	44.0	47.8	54.0	57.1	55.8	57.7	52.1	37.9	42.1
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°	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3
2.5°	800.6	800.0	800.6	800.7	800.6	800.0	800.0	800.0
5°	814.9	814.9	815.5	814.3	814.2	814.9	814.3	813.7
7.5°	839.1	838.5	838.4	837.8	838.5	837.8	837.9	837.2
10°	871.3	870.1	870.7	868.8	868.8	868.3	868.3	868.2
12.5°	906.1	904.2	904.7	902.9	899.9	900.5	901.1	900.5
15°	939.5	937.7	935.8	934.5	932.7	933.4	933.3	932.7
17.5°	973.6	969.9	969.3	967.4	966.8	966.9	966.9	967.4
20°	1009.0	1006.5	1006.0	1004.1	1003.4	1005.3	1006.0	1004.7
22.5°	1046.9	1045.6	1046.9	1045.6	1047.4	1048.8	1049.3	1048.1
25°	1094.5	1093.4	1095.3	1099.5	1102.1	1103.3	1106.4	1105.1
27.5°	1155.9	1154.8	1159.1	1165.2	1168.9	1175.3	1178.3	1179.5
30°	1235.4	1240.9	1243.4	1255.8	1258.3	1268.2	1268.3	1272.6
32.5°	1350.7	1361.2	1379.9	1399.1	1425.8	1445.0	1445.0	1454.9
35°	1603.7	1608.0	1622.3	1625.5	1631.1	1637.2	1631.1	1636.0
37.5°	1797.8	1778.6	1765.0	1745.7	1734.0	1734.0	1735.3	1734.0
40°	1897.1	1889.7	1883.5	1867.4	1864.8	1864.2	1864.2	1866.7
42.5°	2074.4	2056.5	2046.5	2032.8	2028.5	2027.3	2026.6	2027.9
45°	2305.1	2276.0	2249.3	2235.7	2223.9	2212.7	2216.4	2216.5
47.5°	2573.6	2528.4	2485.0	2461.4	2440.9	2431.6	2425.4	2423.5
50°	2900.5	2837.2	2781.4	2737.4	2707.6	2707.0	2710.2	2690.2
52.5°	3301.0	3201.3	3131.7	3072.2	3044.3	3041.3	3031.3	3020.2
55°	3745.1	3626.6	3512.0	3448.0	3411.6	3391.6	3379.9	3361.2
57.5°	4202.8	4043.4	3878.5	3776.2	3711.7	3667.0	3643.5	3632.9
60°	4555.7	4338.1	4120.4	3955.9	3848.7	3782.3	3741.4	3724.7
62.5°	4694.5	4399.4	4120.4	3904.5	3749.4	3657.7	3602.4	3578.3
65°	4529.0	4179.2	3861.7	3623.6	3450.6	3348.3	3288.0	3262.1
67.5°	4066.4	3757.6	3412.1	3175.3	2997.2	2896.2	2831.1	2811.8
70°	3409.0	3093.3	2763.4	2551.9	2393.2	2310.7	2243.2	2235.1
72.5°	2561.9	2289.6	2006.9	1832.0	1704.2	1567.7	1533.0	1550.4
75°	1642.1	1387.4	1135.5	978.1	861.4	731.2	680.9	693.3
77.5°	777.7	602.1	434.8	336.1	282.1	241.3	230.7	224.5
80°	288.4	233.9	206.5	195.9	188.6	181.7	176.7	171.2
82.5°	186.6	182.3	176.7	174.9	169.3	160.6	144.5	137.7
85°	139.5	139.5	132.1	132.7	128.4	117.2	102.3	94.2
87.5°	40.9	36.6	33.5	31.0	30.4	27.3	19.8	17.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)