

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: P180046

Luminaire Tested: **ICS-E04-LED-E1-5MQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180046  
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-E04-LED-E1-5MQ-8030  
Description: ICON SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (84) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9795.5 lumens  
Efficiency: N/A  
Efficacy: 100.8 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

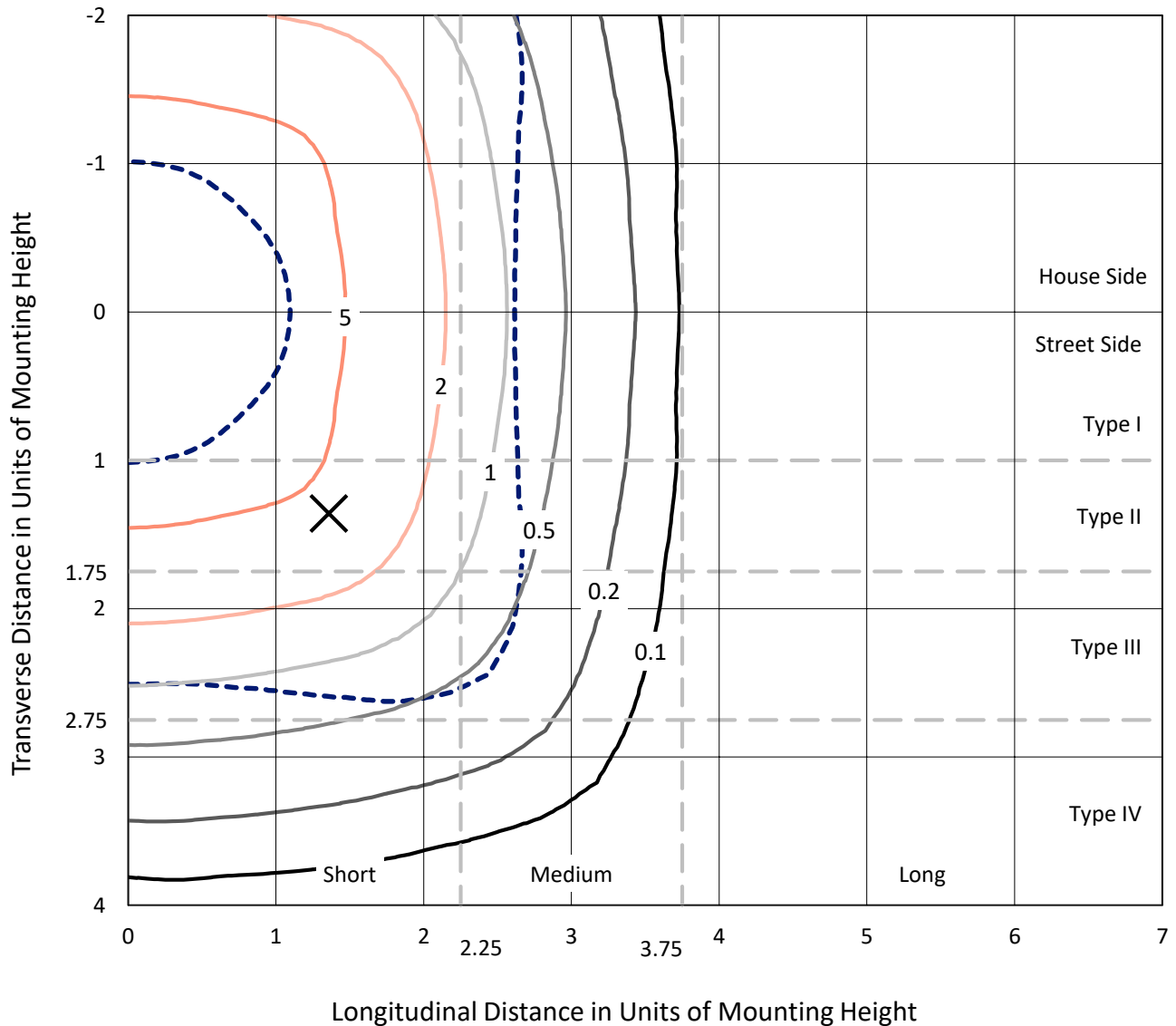
Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P180046  
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### Iso-Footcandle Lines of Horizontal Illumination

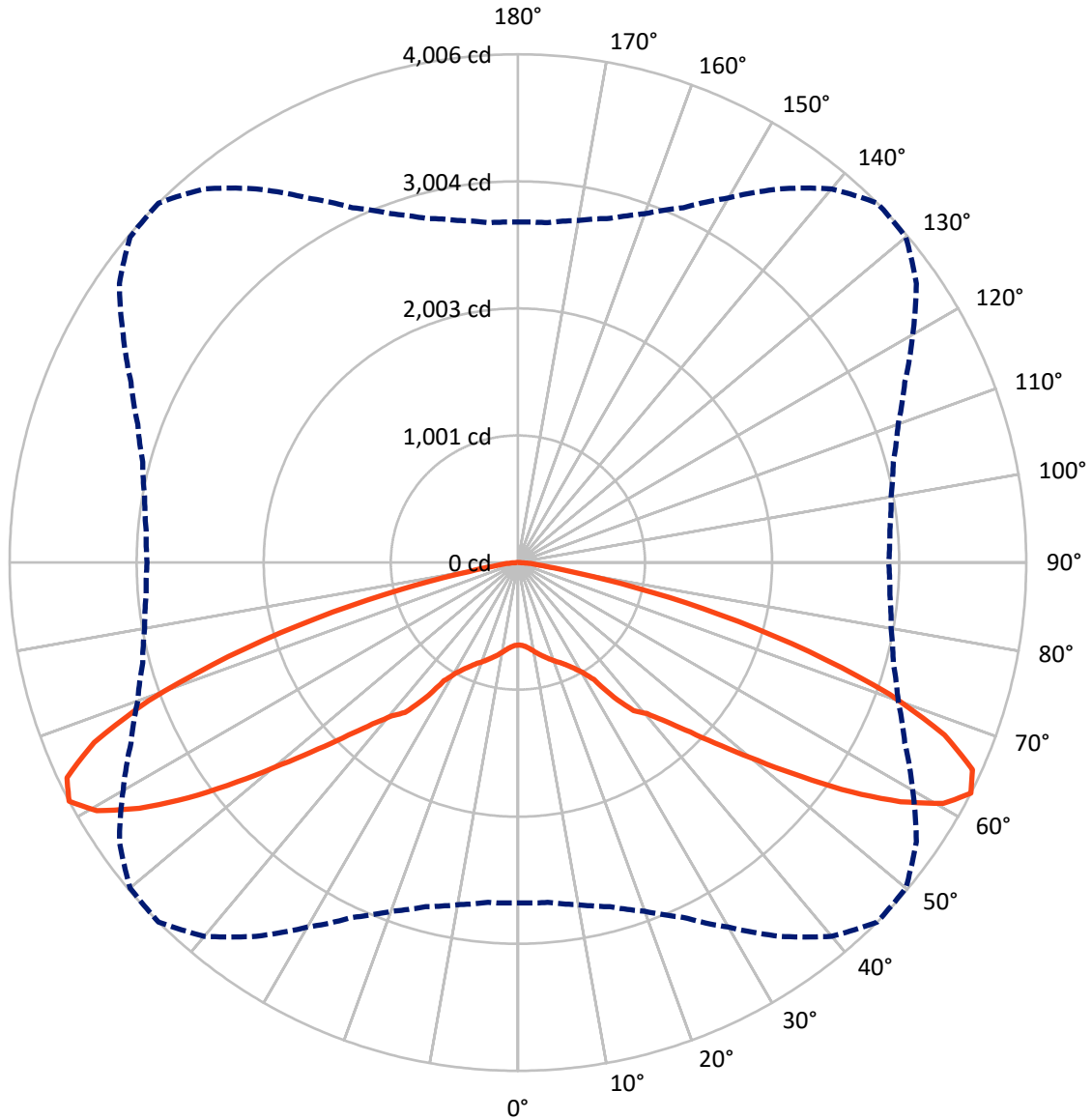
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P180046  
CATALOG NUMBER: ICS-E04-LED-E1-5MQ-8030

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P180046

CATALOG NUMBER: ICS-E04-LED-E1-5MQ-8030

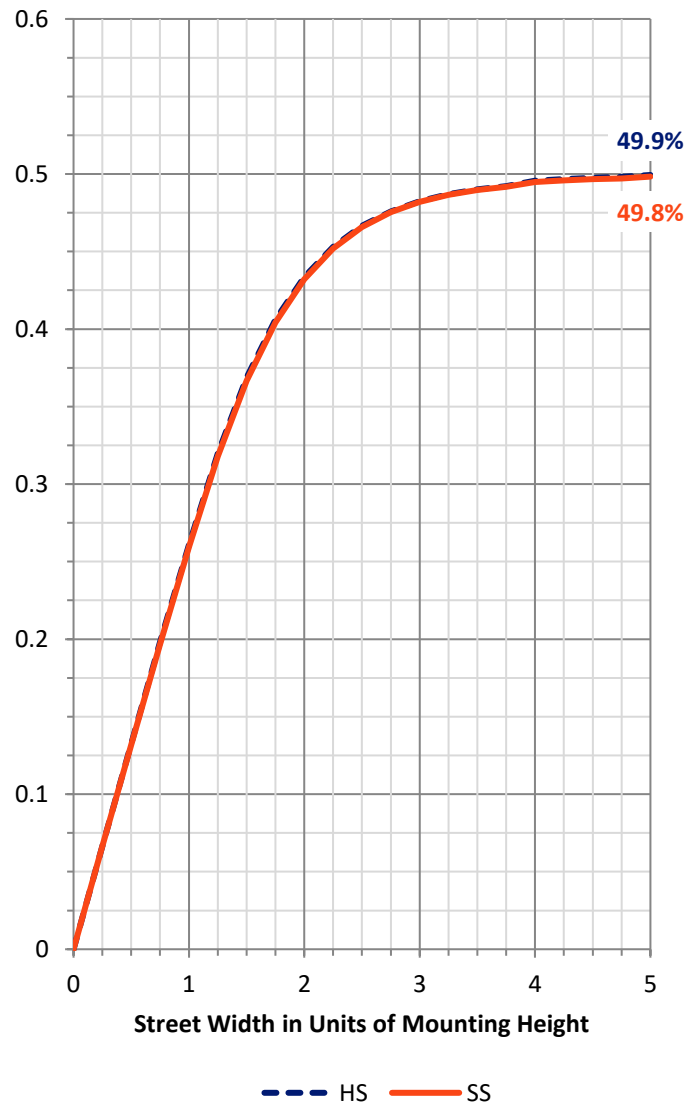
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4897.8	0.0	4897.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4897.8	0.0	4897.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9795.5	0.0	9795.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.2	0.7
10°-20°	220.3	2.2
20°-30°	425.9	4.3
30°-40°	824.6	8.4
40°-50°	1489.0	15.2
50°-60°	2589.1	26.4
60°-70°	2939.2	30.0
70°-80°	1139.5	11.6
80°-90°	102.8	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°	9795.5	100.0
0°-180°	9795.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P180046

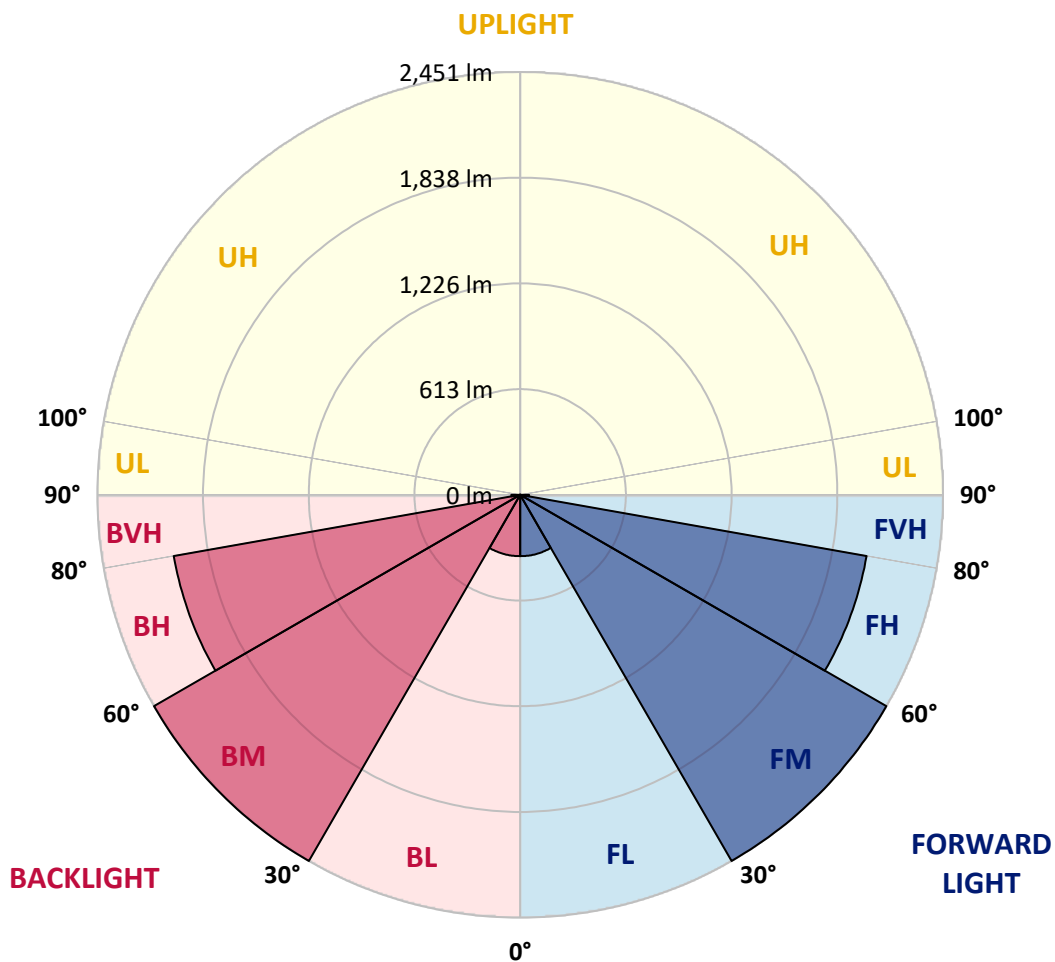
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	355.7	3.6			
FM	(30°-60°)	2451.3	25.0			
FH	(60°-80°)	2039.4	20.8			G2/5000
FVH	(80°-90°)	51.4	0.5			G1/100
BL	(0°-30°)	355.7	3.6	B1/500		
BM	(30°-60°)	2451.3	25.0	B2/2500		
BH	(60°-80°)	2039.4	20.8	B3/2500		G2/5000
BVH	(80°-90°)	51.4	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-G2**

Type V Short





REPORT NUMBER: P180046

CATALOG NUMBER: ICS-E04-LED-E1-5MQ-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2
2.5°	654.3	656.3	655.8	654.8	654.8	654.8	654.3	652.8	652.3	653.3	654.3
5°	669.5	669.5	669.5	669.5	668.4	668.4	667.5	666.4	667.0	666.0	665.4
7.5°	692.8	691.3	691.3	690.8	690.8	689.8	688.2	686.2	686.7	686.2	685.7
10°	720.2	720.7	719.1	720.7	718.2	717.6	715.6	714.6	714.0	712.5	712.6
12.5°	753.0	751.5	751.6	750.5	749.5	748.5	745.4	745.0	742.9	741.9	740.4
15°	783.9	783.4	781.4	779.4	778.9	777.9	774.4	772.3	771.8	769.2	767.2
17.5°	814.8	813.8	811.3	810.3	808.2	806.8	803.7	800.6	799.2	798.1	795.6
20°	847.8	846.8	844.2	842.2	839.6	837.6	833.0	830.6	829.0	827.5	825.5
22.5°	888.8	886.8	882.7	879.2	873.6	871.6	865.4	861.9	859.4	857.4	856.4
25°	933.3	933.8	928.3	923.7	917.2	911.6	904.0	900.0	897.4	895.4	894.8
27.5°	989.0	989.6	984.4	977.9	967.8	961.7	951.6	946.5	945.0	943.0	942.4
30°	1077.2	1072.6	1064.0	1053.4	1044.2	1031.1	1016.4	1011.4	1006.2	1004.8	1004.8
32.5°	1239.2	1236.7	1229.6	1203.2	1191.1	1163.8	1138.0	1123.2	1106.5	1098.4	1093.4
35°	1352.6	1351.6	1346.1	1337.0	1329.4	1323.8	1308.6	1306.0	1303.1	1303.0	1307.1
37.5°	1436.2	1430.1	1429.1	1430.6	1428.6	1429.6	1441.8	1458.5	1472.6	1479.8	1478.8
40°	1559.8	1551.2	1556.2	1552.6	1548.2	1547.1	1551.2	1557.8	1564.3	1564.4	1562.8
42.5°	1721.4	1725.4	1727.4	1712.8	1703.1	1700.6	1710.2	1708.2	1714.8	1712.2	1705.6
45°	1961.4	1958.8	1955.3	1937.6	1922.4	1910.2	1912.8	1909.2	1909.8	1905.6	1900.6
47.5°	2203.4	2212.1	2197.4	2188.8	2171.5	2162.9	2170.0	2164.0	2175.6	2154.3	2144.2
50°	2438.4	2444.5	2439.4	2427.2	2427.3	2439.4	2448.0	2459.2	2475.4	2451.0	2414.6
52.5°	2630.8	2635.9	2643.6	2653.6	2678.4	2704.3	2740.8	2779.8	2810.6	2806.1	2764.6
55°	2748.4	2754.4	2767.1	2802.0	2846.6	2914.4	2997.0	3087.7	3158.6	3193.0	3162.6
57.5°	2787.8	2792.4	2826.9	2868.9	2938.2	3039.0	3177.3	3333.8	3470.0	3556.6	3543.0
60°	2778.8	2778.8	2813.7	2871.4	2968.6	3102.4	3297.8	3514.6	3723.2	3852.8	3833.6
62.5°	2683.0	2688.1	2738.2	2807.6	2925.0	3085.1	3318.0	3595.1	3844.8	4005.8	3990.1
65°	2473.4	2476.9	2531.1	2613.6	2744.8	2934.2	3188.9	3495.8	3782.0	3937.0	3907.6
67.5°	2134.6	2138.1	2182.2	2275.4	2414.1	2612.1	2887.1	3224.8	3505.0	3627.5	3539.4
70°	1698.0	1708.2	1736.6	1835.2	1940.6	2134.6	2387.8	2725.6	2989.9	3105.9	3008.6
72.5°	1157.2	1183.0	1217.4	1305.1	1405.9	1566.9	1768.4	2053.0	2265.2	2399.4	2312.8
75°	651.8	688.2	698.9	765.2	848.3	975.4	1122.8	1326.8	1541.1	1650.0	1545.6
77.5°	281.6	311.4	324.6	355.5	420.4	473.5	563.2	700.9	866.5	943.0	817.9
80°	138.8	145.8	151.4	161.0	179.3	196.4	239.0	299.3	367.2	384.4	305.8
82.5°	107.4	112.4	122.0	129.6	134.2	138.8	142.8	151.0	157.5	161.0	152.0
85°	75.4	82.0	92.7	101.3	106.4	109.9	113.4	116.0	109.9	100.3	105.4
87.5°	19.8	25.8	36.0	39.0	44.0	46.6	45.6	47.1	42.6	30.9	34.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P180046

CATALOG NUMBER: ICS-E04-LED-E1-5MQ-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2
2.5°	653.8	653.2	653.8	653.8	653.8	653.2	653.3	653.3
5°	665.4	665.4	666.0	665.0	665.0	665.4	665.0	664.4
7.5°	685.2	684.6	684.7	684.2	684.7	684.2	684.2	683.7
10°	711.5	710.5	711.0	709.4	709.5	709.0	709.0	709.0
12.5°	739.9	738.3	738.9	737.4	734.8	735.4	735.8	735.3
15°	767.2	765.8	764.2	763.2	761.7	762.2	762.2	761.7
17.5°	795.1	792.1	791.6	790.0	789.5	789.5	789.6	790.0
20°	824.0	822.0	821.4	819.9	819.4	820.9	821.4	820.4
22.5°	854.8	853.8	854.8	853.8	855.4	856.4	856.8	855.9
25°	893.8	892.8	894.4	897.8	899.9	900.9	903.4	902.4
27.5°	944.0	943.0	946.5	951.6	954.6	959.6	962.2	963.2
30°	1008.8	1013.4	1015.4	1025.5	1027.6	1035.6	1035.6	1039.2
32.5°	1103.0	1111.6	1126.8	1142.5	1164.2	1180.0	1180.0	1188.1
35°	1309.6	1313.2	1324.8	1327.3	1331.9	1337.0	1331.9	1335.9
37.5°	1468.1	1452.4	1441.3	1425.6	1416.0	1416.0	1417.0	1416.0
40°	1549.2	1543.1	1538.0	1524.8	1522.8	1522.3	1522.3	1524.3
42.5°	1694.0	1679.3	1671.2	1660.0	1656.5	1655.5	1655.0	1656.0
45°	1882.4	1858.6	1836.8	1825.6	1816.0	1807.0	1810.0	1810.0
47.5°	2101.6	2064.7	2029.2	2010.0	1993.3	1985.7	1980.6	1979.1
50°	2368.6	2316.9	2271.3	2235.4	2211.0	2210.6	2213.0	2196.9
52.5°	2695.7	2614.2	2557.4	2508.8	2486.0	2483.5	2475.4	2466.3
55°	3058.2	2961.6	2867.8	2815.8	2785.8	2769.6	2760.0	2744.8
57.5°	3432.0	3301.9	3167.2	3083.6	3031.0	2994.5	2975.2	2966.6
60°	3720.2	3542.4	3364.6	3230.5	3142.9	3088.7	3055.2	3041.6
62.5°	3833.6	3592.6	3364.7	3188.4	3061.8	2986.9	2941.8	2922.1
65°	3698.4	3412.8	3153.4	2959.0	2817.8	2734.1	2685.0	2663.8
67.5°	3320.6	3068.4	2786.4	2592.9	2447.5	2365.0	2311.9	2296.1
70°	2783.8	2526.0	2256.6	2084.0	1954.3	1887.0	1831.7	1825.1
72.5°	2092.0	1869.7	1638.8	1495.9	1391.6	1280.2	1251.8	1266.1
75°	1341.0	1132.8	927.2	798.6	703.4	597.0	556.0	566.2
77.5°	635.0	491.8	355.0	274.5	230.4	197.0	188.4	183.3
80°	235.4	191.0	168.6	160.0	154.0	148.4	144.4	139.8
82.5°	152.4	148.8	144.4	142.8	138.2	131.1	118.0	112.4
85°	114.0	114.0	107.8	108.4	104.8	95.7	83.6	77.0
87.5°	33.4	29.9	27.4	25.3	24.8	22.3	16.2	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)