

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: P180253

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180253  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICS-F04-LED-E1-5XQ  
Description: ICON SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (28) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9452.2 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G3

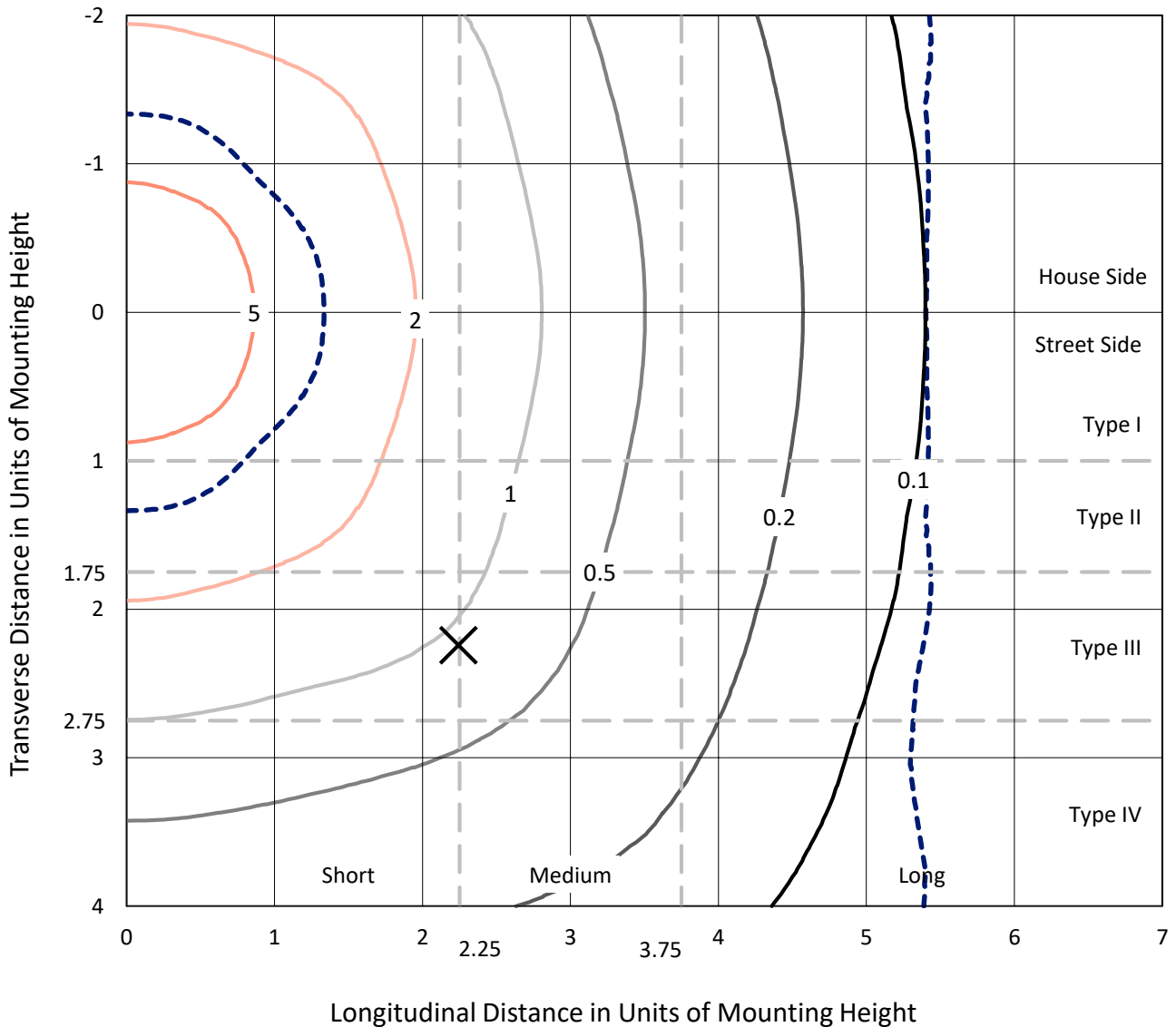
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

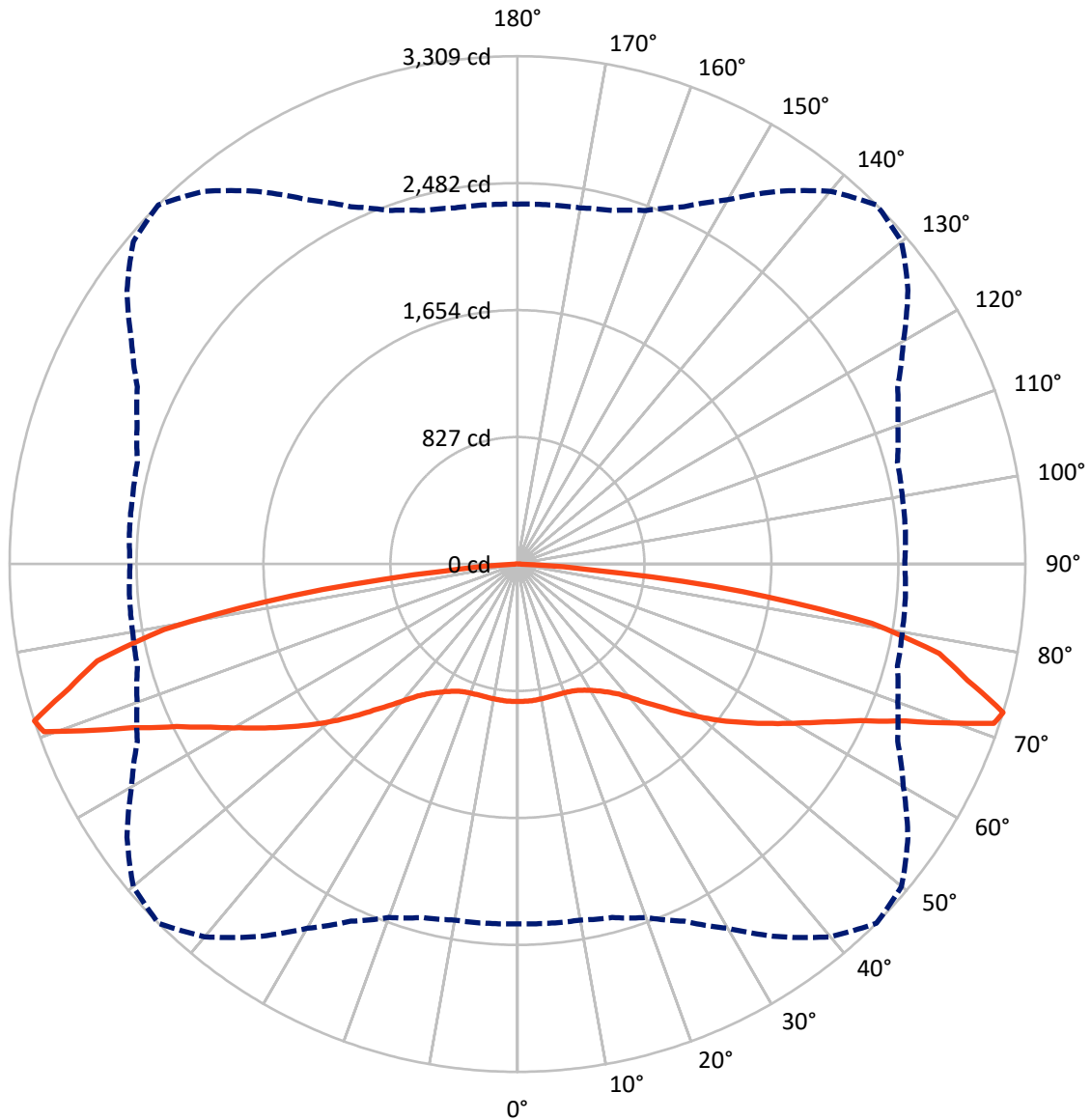
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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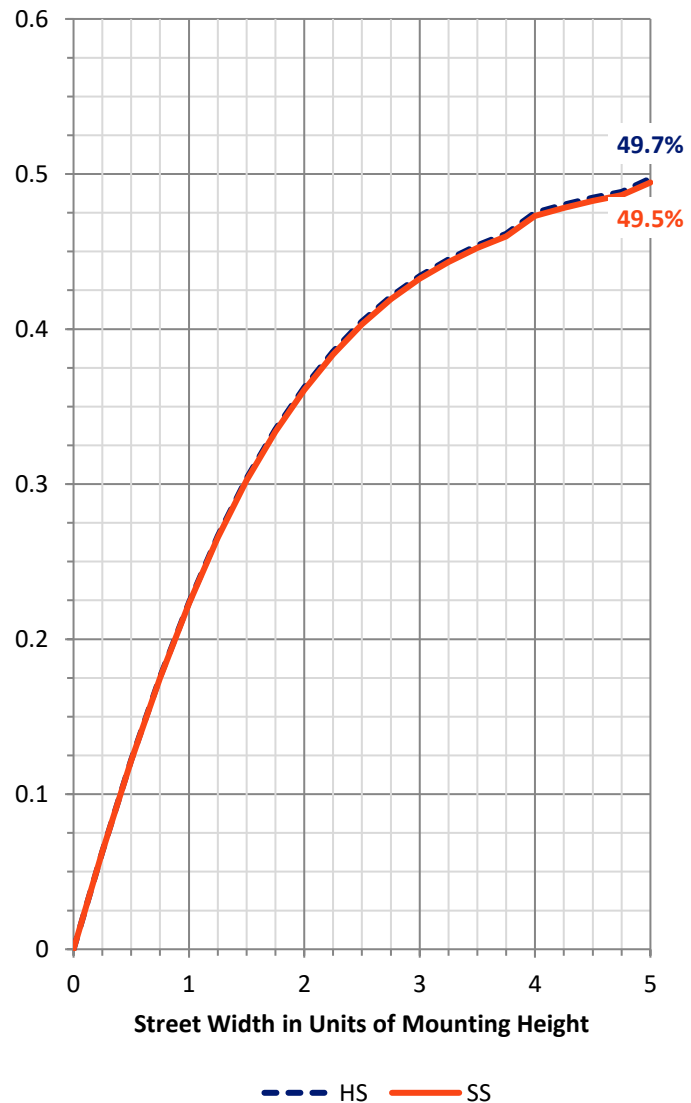
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4726.1	0.0	4726.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4726.1	0.0	4726.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9452.2	0.0	9452.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.4	0.9
10°-20°	252.5	2.7
20°-30°	422.8	4.5
30°-40°	644.5	6.8
40°-50°	1029.2	10.9
50°-60°	1582.5	16.7
60°-70°	2304.1	24.4
70°-80°	2595.5	27.5
80°-90°	535.8	5.7
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°	9452.2	100.0
0°-180°	9452.2	100.0



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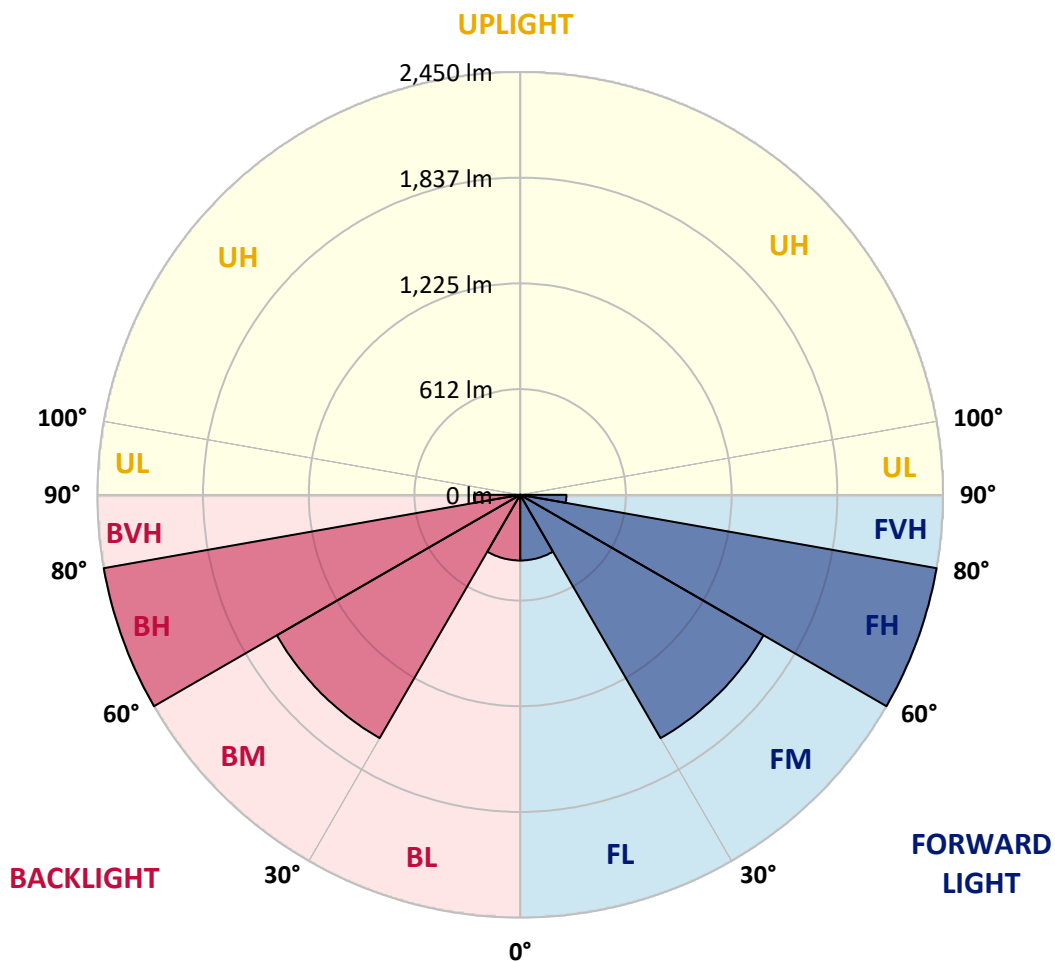
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.3	4.0			
FM	(30°-60°)	1628.1	17.2			
FH	(60°-80°)	2449.8	25.9			G2/5000
FVH	(80°-90°)	267.9	2.8			G3/500
BL	(0°-30°)	380.3	4.0	B1/500		
BM	(30°-60°)	1628.1	17.2	B2/2500		
BH	(60°-80°)	2449.8	25.9	B3/2500		G2/5000
BVH	(80°-90°)	267.9	2.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6
2.5°	897.0	897.6	897.3	896.8	897.0	896.8	896.3	896.1	894.3	895.3	896.8
5°	897.0	896.6	896.3	896.0	896.0	896.8	896.1	895.3	895.1	895.6	894.8
7.5°	896.6	895.6	895.0	894.8	895.1	895.4	894.6	893.6	894.4	893.6	892.6
10°	895.1	894.3	894.6	893.6	893.8	893.6	892.6	891.8	892.4	891.6	890.4
12.5°	895.6	894.4	894.1	893.6	893.4	893.1	891.9	890.6	890.9	890.4	889.2
15°	895.6	894.8	894.6	893.6	893.4	892.8	891.4	890.9	890.9	890.1	888.6
17.5°	896.0	895.6	895.6	894.4	893.8	893.6	891.8	891.2	891.9	890.4	889.4
20°	897.6	897.0	897.3	896.6	895.6	895.6	894.4	893.8	894.1	893.8	891.1
22.5°	900.6	900.6	901.0	900.8	900.5	900.8	899.8	899.8	900.0	900.0	897.8
25°	909.0	908.7	909.2	909.2	909.4	911.2	910.4	910.2	911.4	911.4	909.2
27.5°	924.8	924.3	924.8	925.3	926.5	928.8	928.2	929.0	931.0	930.5	928.5
30°	943.1	942.6	943.8	945.4	946.3	949.8	948.3	952.0	953.8	955.3	953.8
32.5°	969.8	969.9	972.1	973.1	975.3	978.8	979.3	982.3	984.5	987.0	985.2
35°	1005.6	1005.0	1006.7	1008.5	1011.2	1014.5	1015.7	1019.7	1023.1	1024.8	1021.6
37.5°	1060.0	1057.3	1060.5	1061.6	1063.8	1064.5	1067.9	1072.9	1076.6	1076.1	1073.9
40°	1133.8	1133.4	1132.1	1130.6	1134.1	1135.3	1135.3	1142.0	1148.0	1147.0	1146.7
42.5°	1220.0	1217.8	1216.3	1216.3	1218.3	1218.8	1226.5	1231.4	1235.6	1236.6	1235.6
45°	1312.6	1310.4	1311.0	1310.0	1310.6	1313.9	1318.4	1327.5	1335.4	1335.7	1331.5
47.5°	1412.2	1405.3	1410.8	1403.1	1407.8	1410.2	1421.4	1434.8	1448.6	1451.1	1447.4
50°	1513.3	1512.5	1512.0	1510.6	1512.8	1518.2	1531.8	1552.9	1566.3	1575.2	1569.2
52.5°	1623.8	1620.0	1618.3	1615.8	1618.0	1628.7	1647.8	1666.1	1690.1	1700.2	1692.1
55°	1731.2	1730.0	1723.6	1723.3	1728.0	1744.6	1765.4	1788.0	1814.0	1825.3	1822.4
57.5°	1841.7	1834.5	1832.5	1829.6	1839.0	1854.6	1880.1	1920.7	1947.7	1960.6	1953.1
60°	1949.6	1944.2	1940.0	1939.0	1945.4	1967.2	2003.9	2052.7	2086.2	2103.0	2091.1
62.5°	2065.6	2062.1	2057.1	2051.4	2065.1	2093.1	2138.6	2192.6	2241.9	2262.7	2244.6
65°	2209.8	2202.5	2197.1	2189.9	2201.0	2236.2	2293.4	2369.4	2435.6	2459.9	2447.0
67.5°	2361.8	2355.1	2355.6	2351.2	2371.0	2419.7	2493.5	2596.8	2685.5	2726.8	2702.6
70°	2494.6	2498.2	2499.2	2517.3	2551.5	2625.8	2748.6	2910.4	3044.9	3108.0	3082.0
71°	2455.4	2463.5	2476.2	2495.0	2554.0	2641.9	2809.6	3005.5	3166.0	3273.0	3237.0
72.5°	2344.4	2349.4	2355.8	2384.6	2451.2	2567.6	2740.2	2964.1	3170.4	3308.9	3267.3
75°	2184.0	2188.7	2190.9	2211.0	2271.6	2373.2	2531.2	2729.8	2911.9	3029.8	3018.2
77.5°	1941.8	1942.5	1959.8	1990.8	2058.9	2175.0	2341.5	2547.6	2718.7	2810.3	2752.1
80°	1394.4	1385.0	1402.8	1442.7	1526.9	1660.1	1830.5	2065.8	2255.8	2341.5	2251.3
82.5°	530.5	559.3	604.6	670.4	698.9	847.0	1006.0	1144.2	1304.2	1483.0	1438.2
85°	57.0	64.2	80.5	99.8	126.1	174.4	241.0	328.9	405.5	476.5	423.0
87.5°	21.3	21.8	24.3	28.0	28.5	29.7	31.7	36.9	34.4	29.7	24.0
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°	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6
2.5°	895.6	895.8	895.6	895.8	895.8	894.8	895.1	894.6
5°	895.4	894.6	894.8	895.1	894.8	895.3	894.6	895.1
7.5°	894.1	892.6	893.1	893.1	892.6	893.4	892.8	892.6
10°	891.6	889.6	890.6	890.2	889.9	890.2	890.2	890.2
12.5°	889.4	888.2	888.4	888.2	887.9	888.6	888.4	888.6
15°	888.9	886.9	886.6	886.2	886.4	886.9	886.9	887.6
17.5°	888.4	885.9	885.6	885.2	885.4	886.4	886.6	886.2
20°	889.8	887.9	887.4	886.9	886.6	887.9	887.6	887.6
22.5°	896.8	894.4	894.1	892.1	891.4	892.1	891.6	891.6
25°	908.0	905.0	904.0	901.3	899.3	899.3	898.6	898.0
27.5°	928.0	923.6	922.6	920.4	917.6	918.1	916.6	916.4
30°	951.3	947.4	943.9	940.6	937.4	936.2	934.5	934.2
32.5°	981.8	977.3	973.1	969.2	964.7	962.9	960.0	958.5
35°	1019.2	1013.2	1008.3	1005.6	1001.1	998.8	996.9	999.1
37.5°	1071.4	1064.2	1061.8	1058.5	1055.6	1052.1	1052.8	1052.1
40°	1143.8	1137.3	1134.8	1129.1	1128.4	1124.4	1126.9	1124.4
42.5°	1233.1	1221.2	1219.5	1215.1	1213.6	1211.4	1212.3	1210.6
45°	1330.5	1319.8	1317.8	1310.7	1310.9	1305.7	1307.7	1307.7
47.5°	1440.0	1428.8	1419.6	1414.4	1412.5	1409.2	1411.0	1410.8
50°	1552.9	1537.8	1527.6	1517.5	1513.0	1514.2	1510.8	1516.8
52.5°	1674.2	1651.7	1637.4	1627.7	1619.3	1621.0	1621.5	1623.2
55°	1799.8	1771.1	1750.3	1737.6	1730.0	1730.5	1732.7	1734.7
57.5°	1926.1	1890.2	1862.0	1843.2	1838.2	1840.4	1840.4	1840.2
60°	2057.2	2014.1	1977.6	1956.4	1951.9	1950.6	1960.3	1957.1
62.5°	2197.8	2146.1	2108.4	2081.2	2074.7	2079.2	2087.8	2085.8
65°	2384.4	2312.7	2264.2	2237.2	2226.3	2230.8	2242.4	2241.9
67.5°	2624.8	2524.8	2460.6	2425.9	2418.0	2423.4	2429.9	2436.1
70°	2984.4	2841.5	2749.9	2674.8	2642.6	2636.5	2642.9	2643.2
71°	3111.0	2946.8	2800.9	2709.2	2656.5	2634.2	2636.0	2624.8
72.5°	3105.8	2903.5	2732.8	2637.0	2563.6	2545.8	2537.2	2523.8
75°	2896.5	2714.2	2566.1	2461.6	2391.0	2370.0	2354.6	2353.9
77.5°	2626.8	2492.3	2329.1	2218.4	2132.5	2097.6	2081.9	2081.4
80°	2111.6	1910.3	1790.9	1724.3	1620.5	1590.5	1558.8	1547.0
82.5°	1277.0	997.9	811.4	721.0	671.0	552.6	495.8	469.1
85°	297.4	211.2	145.6	95.6	68.9	54.7	42.1	37.2
87.5°	20.1	15.8	14.1	11.4	8.7	8.4	5.2	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)