

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: P180246

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180246
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-E04-LED-E1-5XQ-8030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9663.7 lumens
Efficiency: N/A
Efficacy: 99.4 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: B4 - U0 - G3

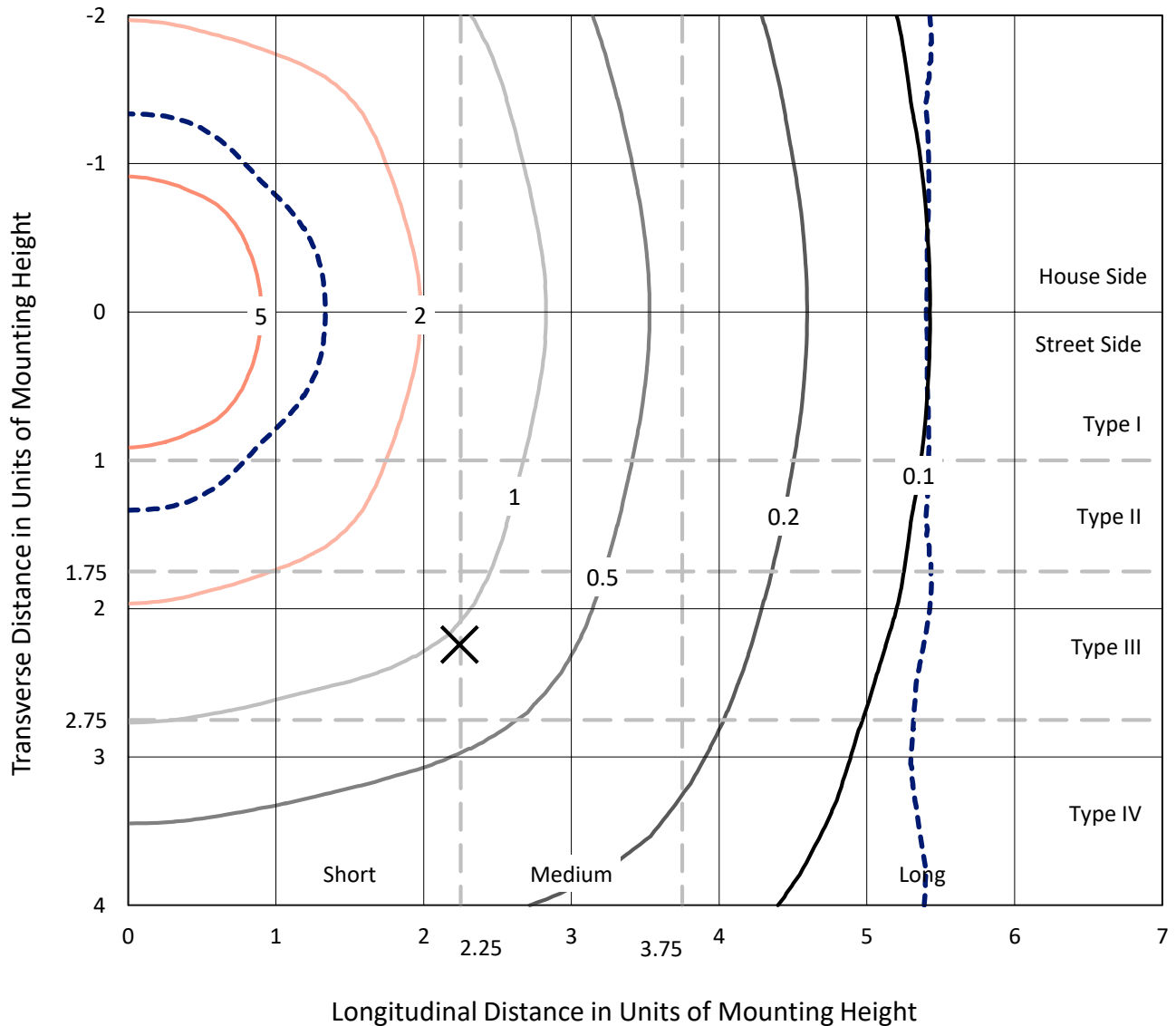
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

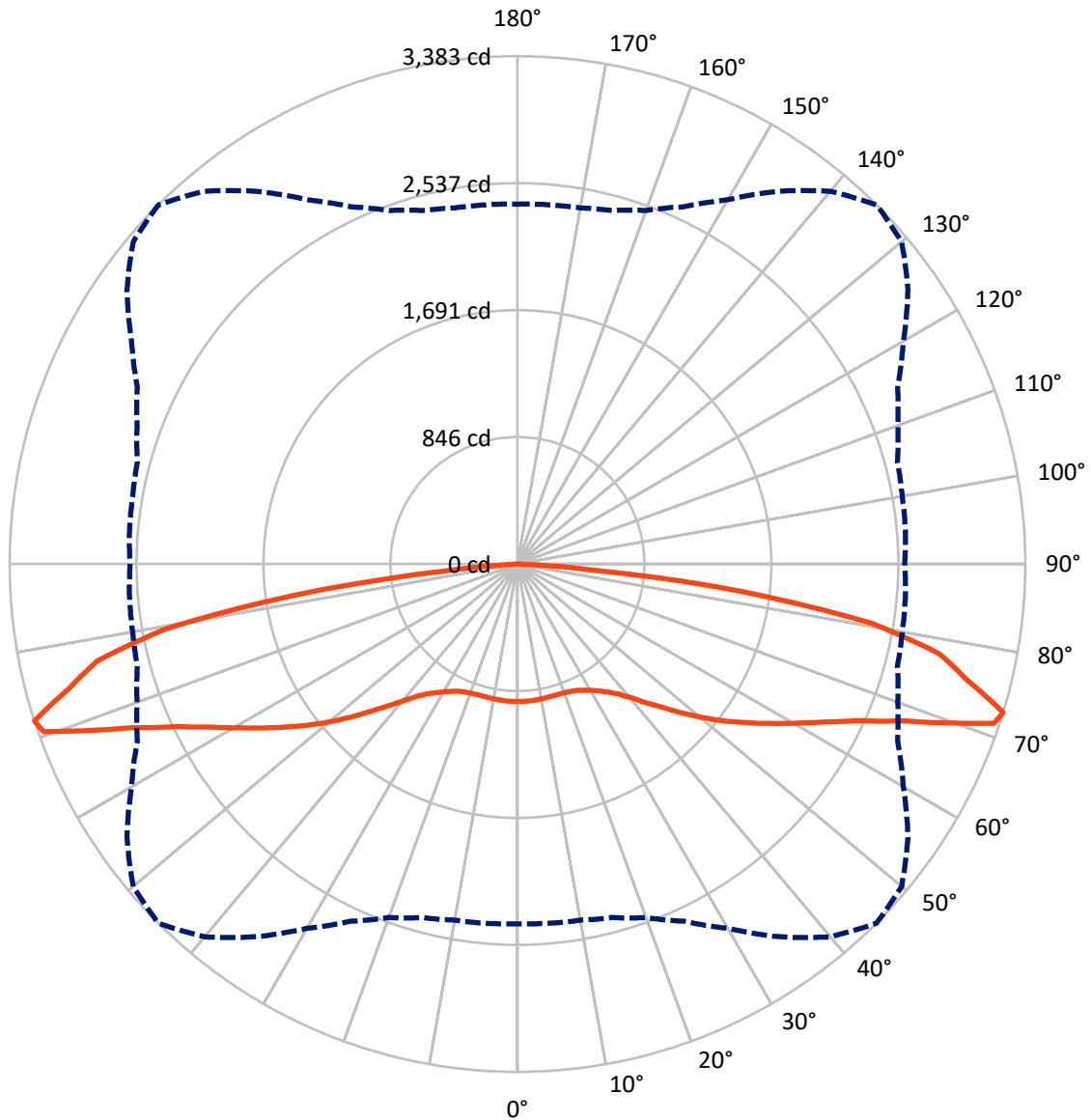
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 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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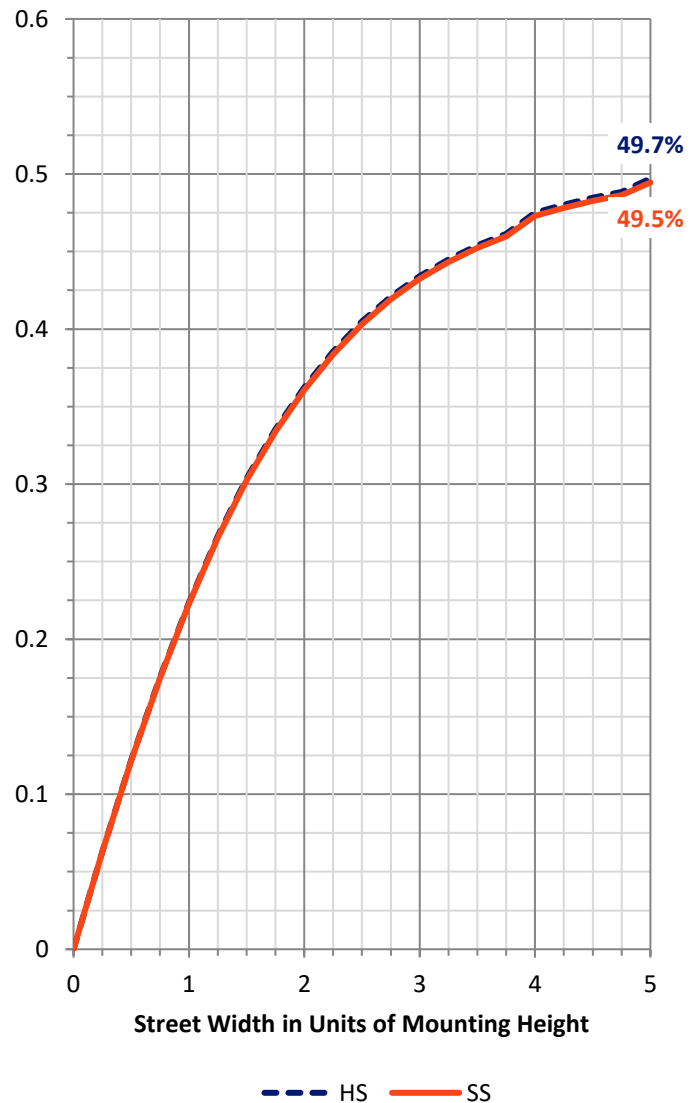
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4831.8	0.0	4831.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4831.8	0.0	4831.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	9663.7	0.0	9663.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	0.9
10°-20°	258.1	2.7
20°-30°	432.2	4.5
30°-40°	659.0	6.8
40°-50°	1052.2	10.9
50°-60°	1617.9	16.7
60°-70°	2355.6	24.4
70°-80°	2653.6	27.5
80°-90°	547.8	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°	9663.7	100.0
0°-180°	9663.7	100.0

Coefficient of Utilization



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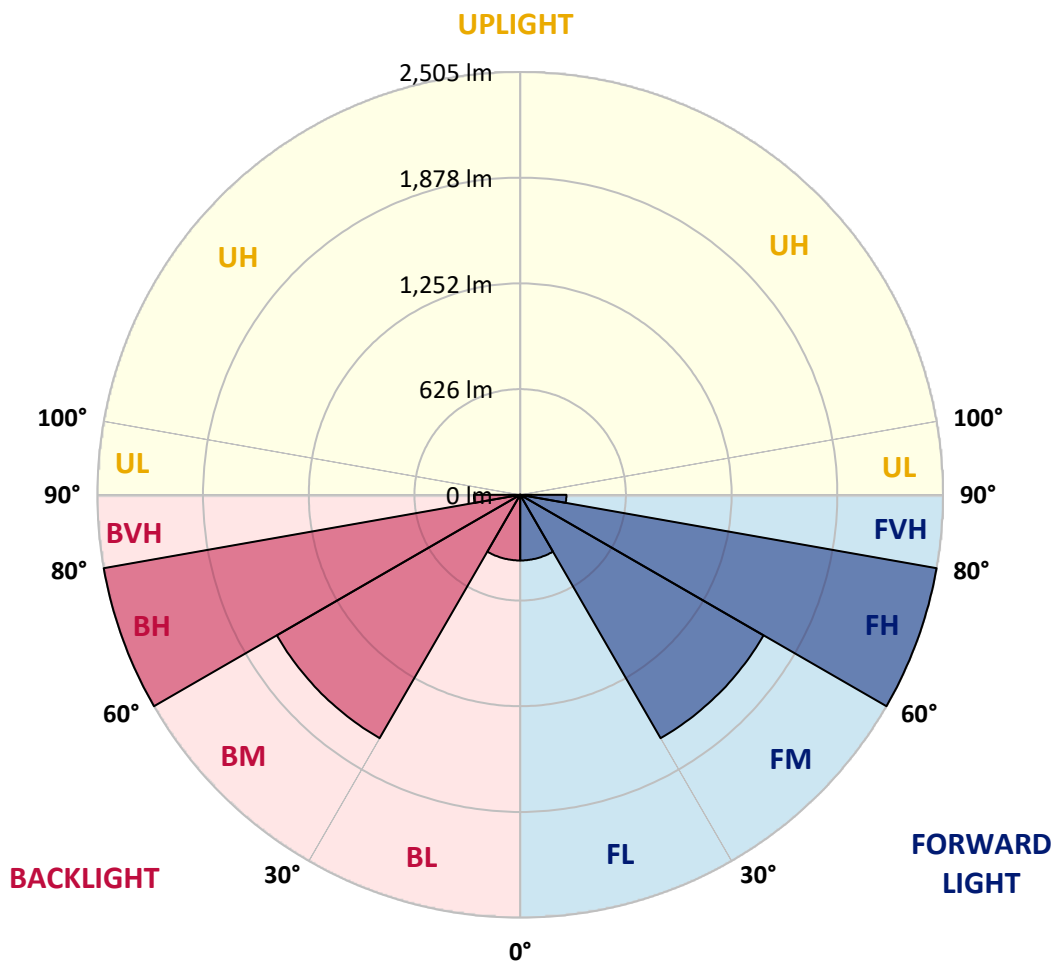
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	388.8	4.0			
FM	(30°-60°)	1664.5	17.2			
FH	(60°-80°)	2504.6	25.9			G2/5000
FVH	(80°-90°)	273.9	2.8			G3/500
BL	(0°-30°)	388.8	4.0	B1/500		
BM	(30°-60°)	1664.5	17.2	B2/2500		
BH	(60°-80°)	2504.6	25.9	B4/5000		G2/5000
BVH	(80°-90°)	273.9	2.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6
2.5°	917.2	917.6	917.4	916.9	917.1	916.9	916.4	916.1	914.4	915.4	916.9
5°	917.2	916.6	916.4	916.1	916.1	916.9	916.1	915.4	915.1	915.6	914.8
7.5°	916.6	915.6	915.1	914.8	915.1	915.4	914.6	913.6	914.4	913.6	912.6
10°	915.1	914.4	914.6	913.6	913.8	913.6	912.6	911.8	912.3	911.6	910.3
12.5°	915.6	914.4	914.1	913.6	913.3	913.1	911.8	910.5	910.8	910.3	909.0
15°	915.6	914.8	914.6	913.6	913.3	912.8	911.3	910.8	910.8	910.0	908.5
17.5°	916.1	915.6	915.6	914.4	913.8	913.6	911.8	911.0	911.8	910.3	909.3
20°	917.6	917.1	917.4	916.6	915.6	915.6	914.3	913.8	914.1	913.8	911.0
22.5°	920.7	920.7	921.2	920.9	920.7	920.9	919.9	919.9	920.2	920.2	917.9
25°	929.2	929.0	929.6	929.5	929.8	931.6	930.8	930.6	931.8	931.8	929.5
27.5°	945.5	945.0	945.5	946.0	947.3	949.5	949.0	949.8	951.8	951.3	949.3
30°	964.2	963.7	965.0	966.5	967.5	971.1	969.6	973.3	975.1	976.6	975.1
32.5°	991.6	991.6	993.8	994.8	997.1	1000.7	1001.2	1004.2	1006.5	1009.0	1007.3
35°	1028.0	1027.5	1029.3	1031.1	1033.8	1037.2	1038.4	1042.5	1046.0	1047.8	1044.5
37.5°	1083.8	1081.0	1084.2	1085.2	1087.5	1088.3	1091.8	1096.9	1100.7	1100.2	1097.9
40°	1159.2	1158.7	1157.4	1155.9	1159.4	1160.7	1160.7	1167.5	1173.6	1172.6	1172.4
42.5°	1247.3	1245.1	1243.5	1243.5	1245.6	1246.0	1253.9	1259.0	1263.2	1264.3	1263.2
45°	1342.0	1339.7	1340.2	1339.2	1340.0	1343.3	1347.9	1357.2	1365.3	1365.6	1361.2
47.5°	1443.8	1436.7	1442.3	1434.4	1439.3	1441.8	1453.2	1466.9	1481.0	1483.6	1479.8
50°	1547.2	1546.3	1545.9	1544.4	1546.6	1552.2	1566.1	1587.6	1601.3	1610.4	1604.4
52.5°	1660.0	1656.2	1654.5	1652.0	1654.2	1665.1	1684.6	1703.4	1727.9	1738.3	1729.9
55°	1770.0	1768.7	1762.1	1761.8	1766.6	1783.6	1804.9	1828.0	1854.5	1866.2	1863.1
57.5°	1882.8	1875.6	1873.5	1870.5	1880.1	1896.0	1922.1	1963.7	1991.2	2004.4	1996.8
60°	1993.3	1987.7	1983.4	1982.4	1989.0	2011.2	2048.7	2098.6	2132.8	2150.0	2137.8
62.5°	2111.8	2108.2	2103.1	2097.4	2111.3	2139.9	2186.4	2241.6	2292.1	2313.3	2294.8
65°	2259.2	2251.8	2246.2	2238.9	2250.3	2286.2	2344.7	2422.5	2490.1	2514.9	2501.7
67.5°	2414.6	2407.8	2408.3	2403.8	2424.0	2473.9	2549.3	2654.9	2745.6	2787.8	2763.0
70°	2550.4	2554.2	2555.2	2573.6	2608.6	2684.6	2810.1	2975.5	3113.0	3177.6	3151.0
71°	2510.4	2518.7	2531.6	2550.8	2611.1	2701.0	2872.4	3072.7	3236.8	3346.2	3309.4
72.5°	2396.9	2402.0	2408.6	2437.9	2506.0	2625.0	2801.5	3030.4	3241.3	3382.9	3340.4
75°	2232.8	2237.6	2239.9	2260.4	2322.4	2426.3	2587.8	2790.9	2977.0	3097.5	3085.6
77.5°	1985.2	1985.9	2003.6	2035.3	2105.0	2223.7	2393.9	2604.6	2779.5	2873.2	2813.7
80°	1425.6	1415.9	1434.2	1475.0	1561.0	1697.3	1871.4	2112.0	2306.2	2393.8	2301.7
82.5°	542.4	571.8	618.1	685.4	714.6	866.0	1028.6	1169.8	1333.4	1516.2	1470.4
85°	58.2	65.6	82.3	102.0	128.9	178.2	246.4	336.3	414.5	487.2	432.5
87.5°	21.8	22.3	24.8	28.6	29.1	30.4	32.4	37.8	35.2	30.4	24.6
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°	915.6	915.6	915.6	915.6	915.6	915.6	915.6	915.6
2.5°	915.6	915.9	915.6	915.9	915.9	914.8	915.1	914.6
5°	915.4	914.6	914.8	915.1	914.8	915.4	914.6	915.1
7.5°	914.1	912.6	913.0	913.0	912.6	913.3	912.8	912.6
10°	911.6	909.5	910.6	910.0	909.8	910.0	910.0	910.0
12.5°	909.3	908.0	908.2	908.0	907.8	908.5	908.3	908.6
15°	908.8	906.7	906.5	906.0	906.2	906.7	906.7	907.5
17.5°	908.2	905.8	905.5	905.0	905.2	906.2	906.5	906.0
20°	909.8	907.8	907.2	906.7	906.5	907.7	907.5	907.5
22.5°	916.9	914.4	914.1	912.1	911.3	912.1	911.6	911.6
25°	928.3	925.3	924.2	921.4	919.4	919.4	918.7	918.2
27.5°	948.8	944.2	943.2	940.9	938.2	938.7	937.1	936.8
30°	972.6	968.6	965.0	961.7	958.4	957.2	955.4	955.1
32.5°	1003.7	999.2	994.9	990.8	986.3	984.5	981.4	980.0
35°	1042.0	1035.9	1030.8	1028.1	1023.5	1021.2	1019.2	1021.4
37.5°	1095.4	1088.1	1085.5	1082.2	1079.2	1075.6	1076.4	1075.6
40°	1169.3	1162.8	1160.2	1154.4	1153.6	1149.6	1152.1	1149.6
42.5°	1260.7	1248.6	1246.8	1242.2	1240.7	1238.4	1239.5	1237.7
45°	1360.2	1349.4	1347.3	1340.0	1340.2	1334.9	1336.9	1337.0
47.5°	1472.2	1460.8	1451.4	1446.1	1444.1	1440.8	1442.5	1442.3
50°	1587.6	1572.2	1561.8	1551.4	1546.8	1548.2	1544.6	1550.6
52.5°	1711.7	1688.6	1674.0	1664.1	1655.5	1657.2	1657.8	1659.6
55°	1840.1	1810.7	1789.4	1776.5	1768.7	1769.2	1771.5	1773.4
57.5°	1969.2	1932.5	1903.6	1884.4	1879.4	1881.6	1881.6	1881.4
60°	2103.2	2059.1	2021.9	2000.1	1995.6	1994.3	2004.2	2000.8
62.5°	2247.0	2194.1	2155.6	2127.7	2121.2	2125.7	2134.6	2132.5
65°	2437.7	2364.5	2314.8	2287.2	2276.1	2280.7	2292.6	2292.1
67.5°	2683.6	2581.2	2515.6	2480.2	2472.1	2477.7	2484.2	2490.5
70°	3051.2	2905.1	2811.4	2734.7	2701.8	2695.4	2702.0	2702.3
71°	3180.6	3012.7	2863.6	2769.9	2716.0	2693.1	2694.9	2683.5
72.5°	3175.3	2968.4	2793.9	2696.0	2621.0	2602.8	2593.9	2580.2
75°	2961.3	2774.9	2623.5	2516.7	2444.5	2423.0	2407.3	2406.5
77.5°	2685.6	2548.1	2381.2	2268.0	2180.2	2144.5	2128.5	2128.0
80°	2158.9	1953.0	1831.0	1762.9	1656.8	1626.1	1593.8	1581.6
82.5°	1305.6	1020.2	829.5	737.1	685.9	564.9	506.9	479.6
85°	304.1	216.0	148.9	97.8	70.4	56.0	43.0	38.0
87.5°	20.5	16.2	14.4	11.6	8.9	8.6	5.3	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)