

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: STREETWORKS

Report Number: P198683

Luminaire Tested: **XNV2-AF-02-LED-U-RW-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24161)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-RW-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8305.4 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G1

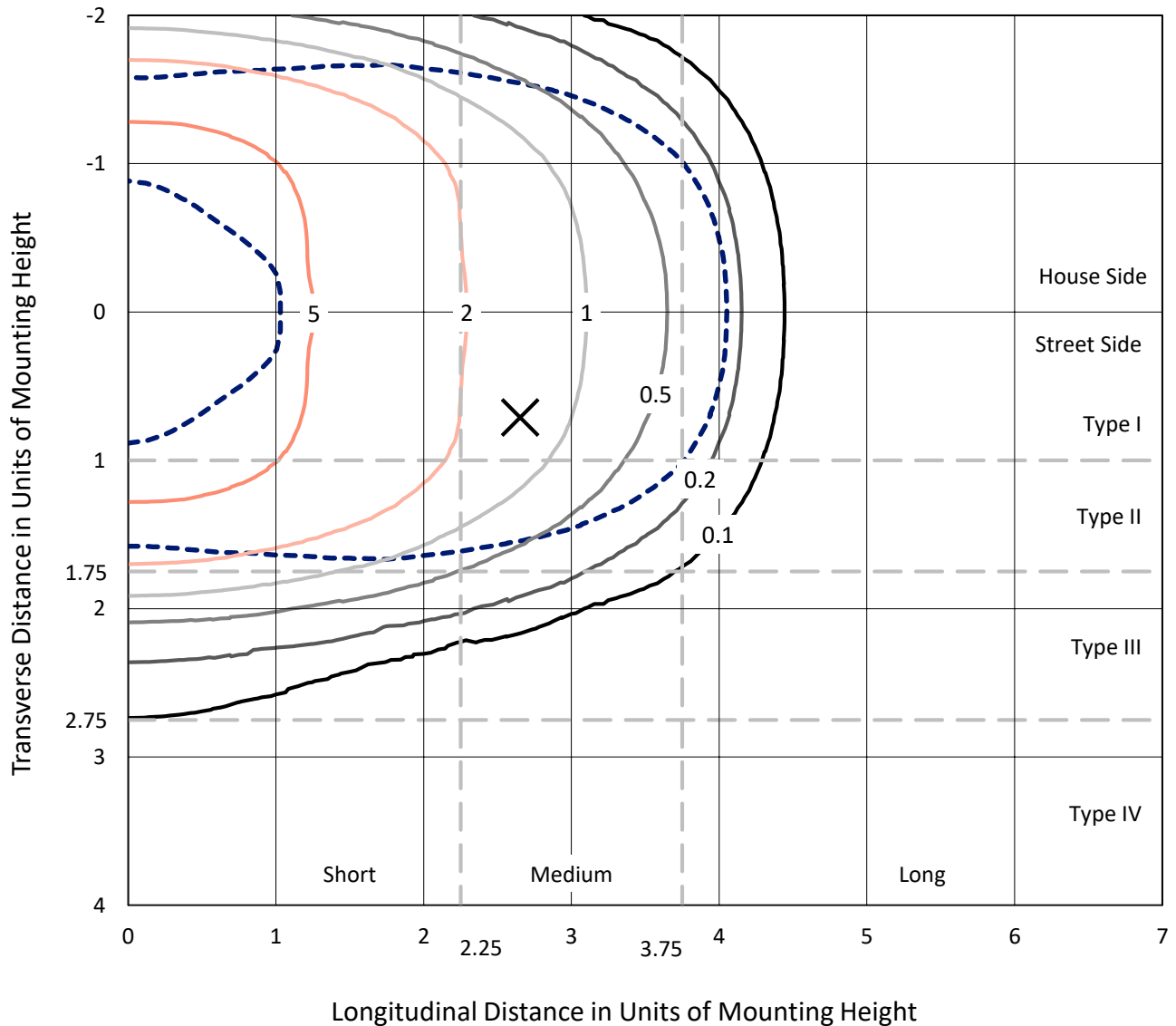
Input Watts (W): 66
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

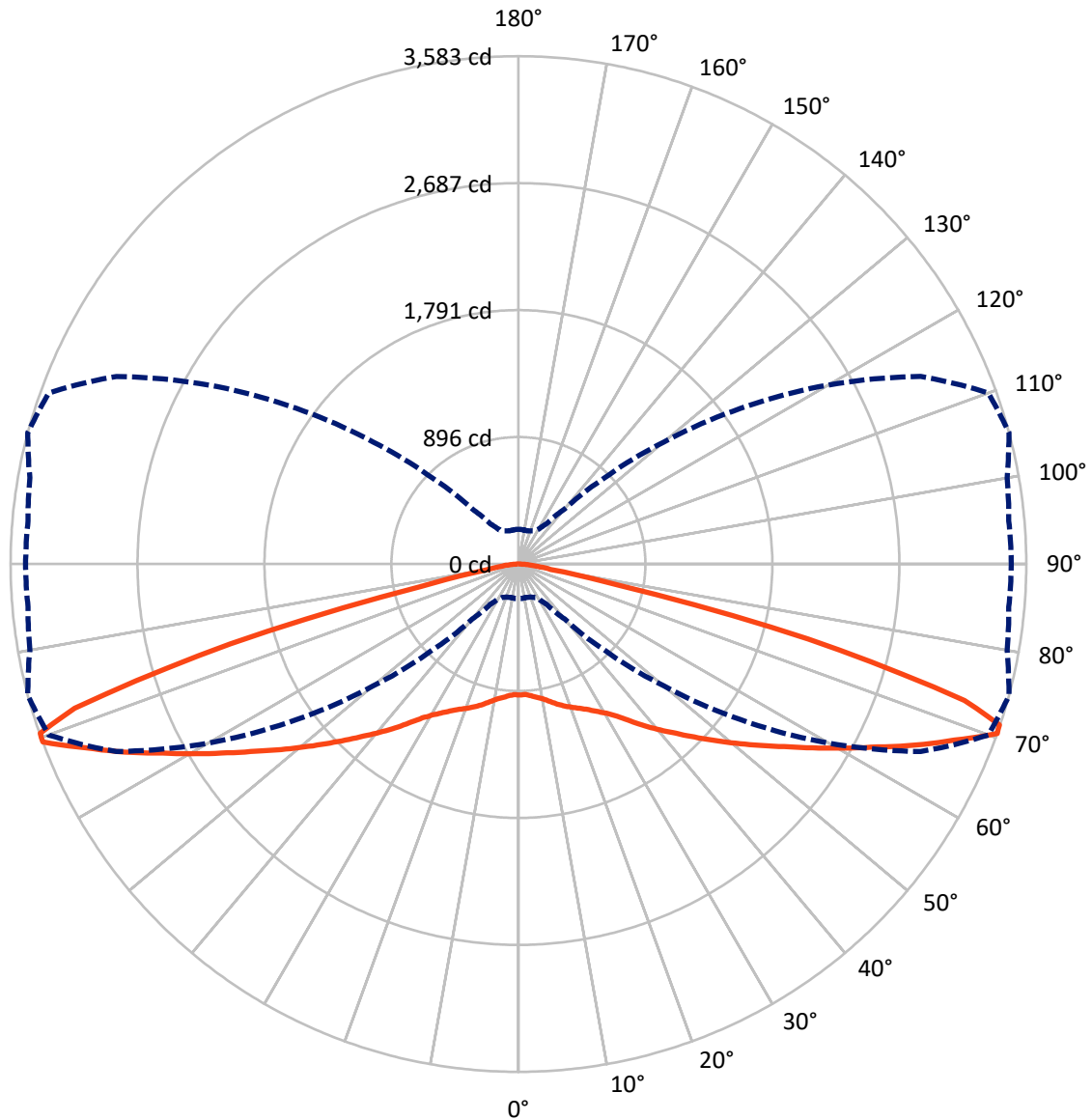
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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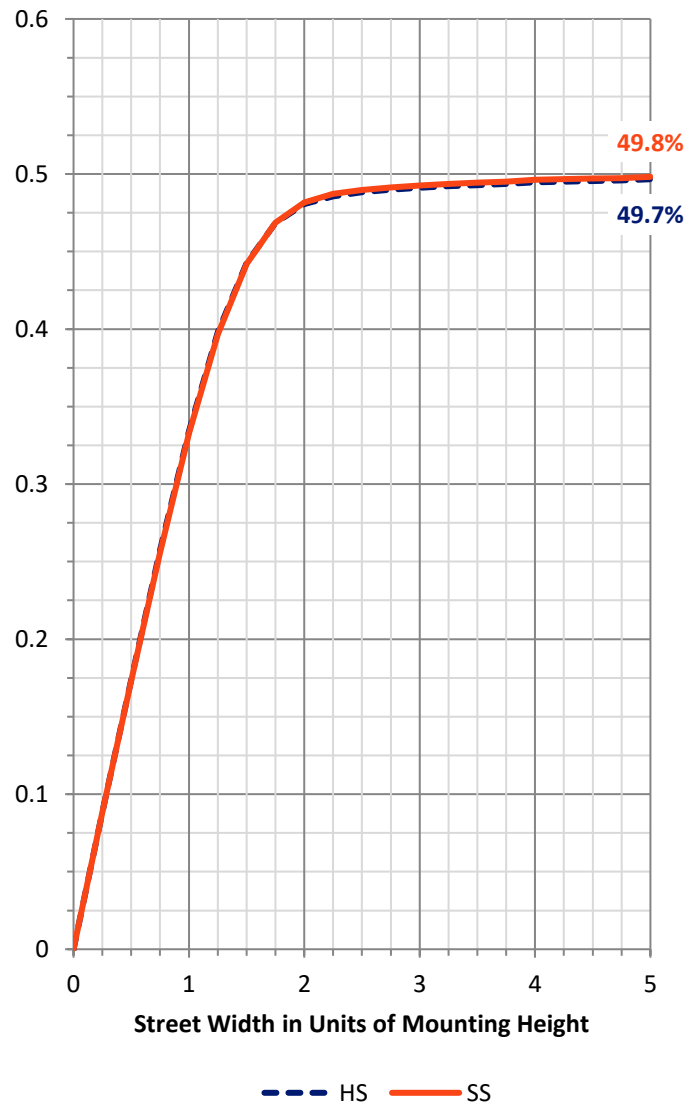
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4152.7	0.0	4152.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4152.7	0.0	4152.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	8305.4	0.0	8305.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	1.1
10°-20°	275.1	3.3
20°-30°	516.7	6.2
30°-40°	910.3	11.0
40°-50°	1508.6	18.2
50°-60°	2098.6	25.3
60°-70°	1981.2	23.9
70°-80°	846.2	10.2
80°-90°	80.0	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°	8305.4	100.0
0°-180°	8305.4	100.0



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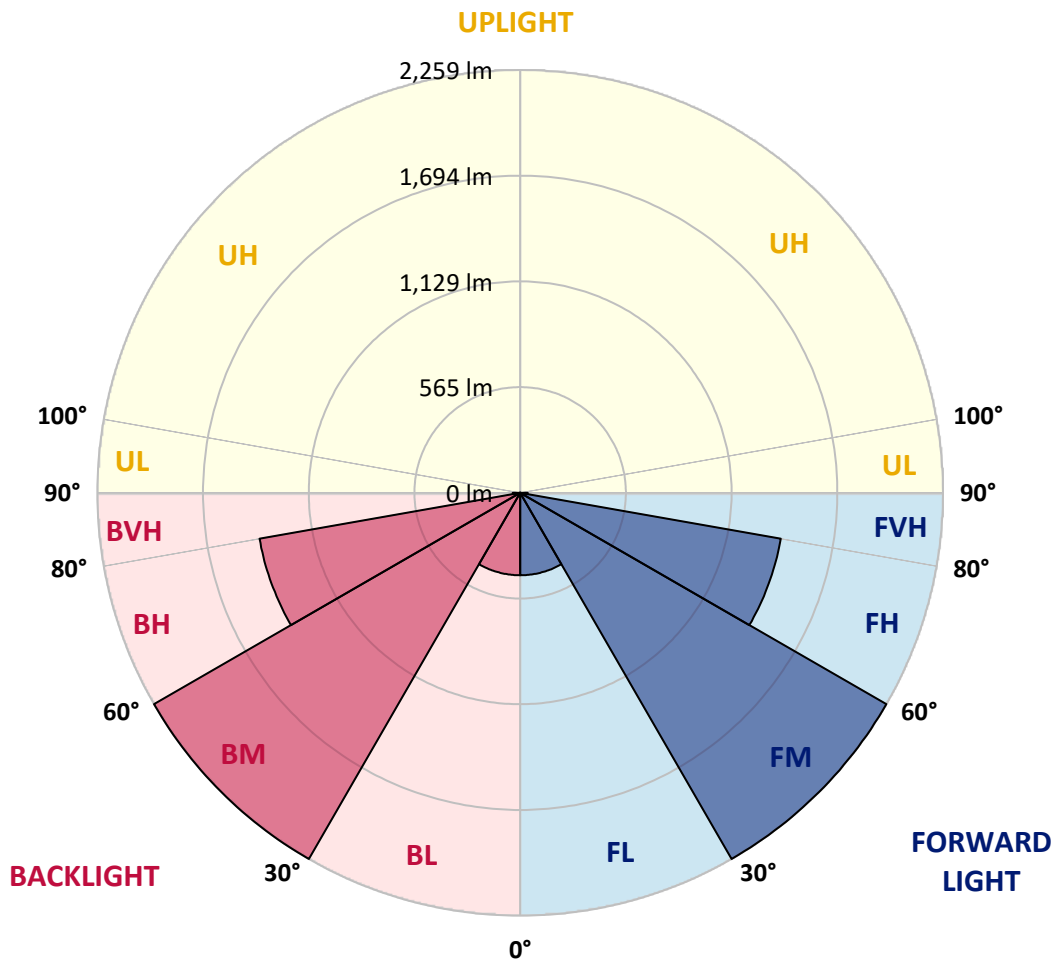
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.3	5.3			
FM (30°-60°)	2258.7	27.2			
FH (60°-80°)	1413.7	17.0			G1/1800
FVH (80°-90°)	40.0	0.5			G1/100
BL (0°-30°)	440.3	5.3	B1/500		
BM (30°-60°)	2258.7	27.2	B2/2500		
BH (60°-80°)	1413.7	17.0	B3/2500		G1/1800
BVH (80°-90°)	40.0	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-G1

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	924.8	924.8	924.8	924.8	924.8	924.8	924.8	924.8	924.8	924.8	924.8
2.5°	930.6	930.1	930.6	929.0	929.6	929.0	929.0	927.0	927.0	925.9	924.3
5°	920.2	921.3	921.3	921.3	922.8	922.8	924.8	925.4	927.0	928.5	929.6
7.5°	903.1	903.6	905.1	906.1	909.3	913.4	917.6	922.3	926.5	931.6	937.3
10°	888.4	889.5	892.1	894.7	900.4	905.6	912.9	920.2	927.5	936.3	945.2
12.5°	880.7	882.2	886.4	890.5	899.4	906.1	916.1	927.5	937.3	945.7	955.5
15°	881.7	882.2	887.9	893.6	906.1	915.5	929.6	943.1	955.0	964.4	975.9
17.5°	896.8	897.8	903.6	911.9	923.8	935.8	950.9	964.9	981.1	992.1	1005.6
20°	926.5	928.0	934.3	943.1	956.2	968.6	984.2	998.8	1015.5	1028.5	1042.0
22.5°	964.9	967.6	974.4	985.3	998.3	1013.3	1029.5	1044.6	1060.2	1073.2	1084.6
25°	1016.5	1019.6	1026.9	1037.8	1050.9	1066.9	1083.6	1099.3	1115.3	1125.2	1134.7
27.5°	1085.7	1090.9	1098.8	1107.5	1119.0	1136.2	1151.8	1164.8	1180.4	1191.3	1197.6
30°	1178.8	1186.1	1192.5	1201.8	1210.0	1228.4	1240.8	1251.2	1263.1	1269.5	1271.0
32.5°	1292.8	1299.7	1305.9	1312.7	1324.1	1340.8	1352.8	1358.5	1364.7	1363.6	1357.9
35°	1421.4	1426.6	1430.3	1442.3	1461.0	1471.9	1480.7	1482.9	1483.9	1472.9	1462.0
37.5°	1556.7	1563.0	1566.1	1584.9	1602.6	1615.0	1619.2	1623.8	1620.8	1602.6	1582.7
40°	1703.0	1709.8	1719.2	1735.2	1756.1	1768.1	1773.3	1772.8	1770.1	1748.8	1716.5
42.5°	1846.6	1854.9	1862.8	1890.9	1908.0	1928.4	1930.9	1930.4	1924.7	1900.2	1862.8
45°	1968.5	1978.3	1994.4	2025.6	2053.3	2077.7	2087.6	2091.2	2085.5	2059.5	2016.8
47.5°	2068.9	2075.7	2095.9	2134.0	2169.4	2205.3	2225.0	2239.0	2238.5	2219.8	2174.5
50°	2137.6	2145.4	2170.4	2213.1	2257.2	2299.5	2338.5	2370.3	2385.3	2371.8	2329.7
52.5°	2157.4	2167.2	2200.1	2251.0	2302.6	2359.3	2417.6	2473.8	2507.7	2515.9	2483.2
55°	2074.1	2085.0	2132.9	2203.6	2288.5	2372.3	2460.8	2540.9	2610.7	2643.0	2629.9
57.5°	1831.6	1839.4	1900.2	1991.9	2113.1	2260.4	2409.3	2556.0	2675.7	2759.5	2774.1
60°	1448.5	1458.3	1525.0	1621.8	1759.7	1946.1	2154.2	2394.7	2629.4	2821.5	2916.7
62.5°	977.4	984.2	1048.2	1136.7	1287.7	1467.2	1699.3	2003.9	2338.5	2681.5	2950.1
65°	513.2	513.2	556.4	618.3	738.6	899.4	1137.2	1449.5	1847.7	2276.1	2725.2
67.5°	297.7	297.2	307.1	321.1	359.2	424.2	555.4	784.9	1161.7	1660.4	2171.4
70°	245.7	244.1	242.5	242.5	248.3	258.2	283.2	346.1	506.5	856.2	1336.1
71°	234.8	233.6	229.6	228.0	230.6	235.8	246.7	275.9	359.7	584.0	997.8
72.5°	221.7	219.1	212.9	210.3	210.8	212.9	216.0	227.4	253.0	332.0	568.9
75°	201.9	195.7	187.9	184.2	182.7	182.2	182.2	185.3	191.0	200.4	233.1
77.5°	179.0	170.2	161.8	158.3	155.6	154.1	153.0	151.0	149.9	154.1	166.0
80°	151.5	142.1	135.3	133.3	131.7	128.6	124.4	120.2	117.6	119.7	126.9
82.5°	117.1	107.7	108.7	109.3	106.7	101.5	97.3	92.7	88.0	87.0	90.5
85°	93.2	88.5	85.3	92.2	86.4	80.2	74.5	66.6	55.6	45.8	49.9
87.5°	40.1	40.6	58.3	88.0	77.0	61.9	51.6	41.6	26.5	19.7	20.3
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°	924.8	924.8	924.8	924.8	924.8	924.8	924.8	924.8
2.5°	923.8	923.8	922.3	921.3	921.3	921.3	920.2	920.8
5°	930.1	931.1	932.2	931.6	933.2	934.8	934.3	933.7
7.5°	940.5	943.6	946.7	948.3	950.4	952.5	953.0	951.4
10°	950.9	957.2	961.9	966.0	968.6	970.7	972.2	971.7
12.5°	963.9	972.7	981.1	989.4	995.1	998.3	1001.4	1000.3
15°	985.3	995.1	1005.6	1016.5	1025.3	1030.0	1034.7	1033.7
17.5°	1014.4	1023.3	1031.5	1042.5	1053.4	1058.7	1063.9	1063.4
20°	1050.9	1057.6	1062.3	1068.6	1078.9	1084.6	1089.3	1087.8
22.5°	1092.5	1094.6	1095.1	1097.1	1105.5	1112.3	1118.5	1120.0
25°	1137.7	1136.2	1133.0	1131.5	1137.2	1144.5	1152.4	1154.4
27.5°	1194.0	1188.8	1181.0	1174.8	1176.3	1185.6	1194.5	1196.5
30°	1264.8	1252.8	1236.1	1224.2	1222.1	1231.9	1241.4	1244.4
32.5°	1345.4	1329.3	1306.4	1288.2	1280.3	1289.2	1297.5	1302.2
35°	1441.2	1423.5	1395.9	1372.5	1360.0	1365.7	1380.3	1385.5
37.5°	1554.7	1530.2	1499.4	1469.8	1449.0	1450.0	1465.7	1471.9
40°	1680.1	1644.7	1605.6	1568.7	1538.5	1536.5	1550.5	1555.2
42.5°	1810.7	1765.4	1719.7	1671.2	1633.8	1627.0	1645.2	1645.7
45°	1951.3	1893.0	1836.2	1780.0	1741.0	1729.0	1746.7	1748.8
47.5°	2101.1	2028.3	1961.1	1900.2	1858.1	1839.4	1856.6	1859.6
50°	2257.2	2181.9	2103.8	2036.1	1986.7	1963.8	1984.0	1986.2
52.5°	2411.9	2340.6	2263.0	2185.4	2125.6	2099.6	2123.5	2130.8
55°	2567.5	2498.8	2425.9	2348.4	2272.9	2250.0	2276.1	2283.8
57.5°	2729.3	2663.3	2597.2	2519.1	2445.7	2410.8	2438.9	2449.9
60°	2907.8	2849.6	2787.1	2708.6	2636.1	2595.6	2619.6	2632.1
62.5°	3083.3	3071.3	3014.5	2932.9	2841.2	2800.6	2821.0	2829.8
65°	3097.9	3292.0	3289.4	3208.2	3080.2	3012.0	3017.7	3021.9
67.5°	2703.9	3149.4	3434.0	3459.6	3317.0	3210.3	3197.7	3200.4
70°	1914.4	2525.9	3130.1	3526.7	3582.9	3500.2	3473.1	3477.3
71°	1533.8	2167.2	2832.4	3365.9	3578.8	3554.9	3539.7	3550.7
72.5°	979.0	1596.8	2244.3	2882.4	3290.9	3408.1	3425.2	3432.0
75°	355.5	687.0	1162.7	1666.1	2111.6	2418.2	2586.7	2600.2
77.5°	191.0	246.2	380.4	568.4	714.1	792.2	801.5	805.2
80°	140.6	163.0	186.3	212.9	229.6	232.6	226.9	214.9
82.5°	99.4	112.4	121.8	131.1	137.9	132.2	109.9	83.8
85°	57.8	63.5	68.7	73.3	74.5	70.3	46.3	38.0
87.5°	22.9	25.0	24.4	27.6	26.5	24.4	18.2	15.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)