

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: P198664

Luminaire Tested: **XNV-AF-01-LED-U-5WQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24131)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-5WQ-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7060.4 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

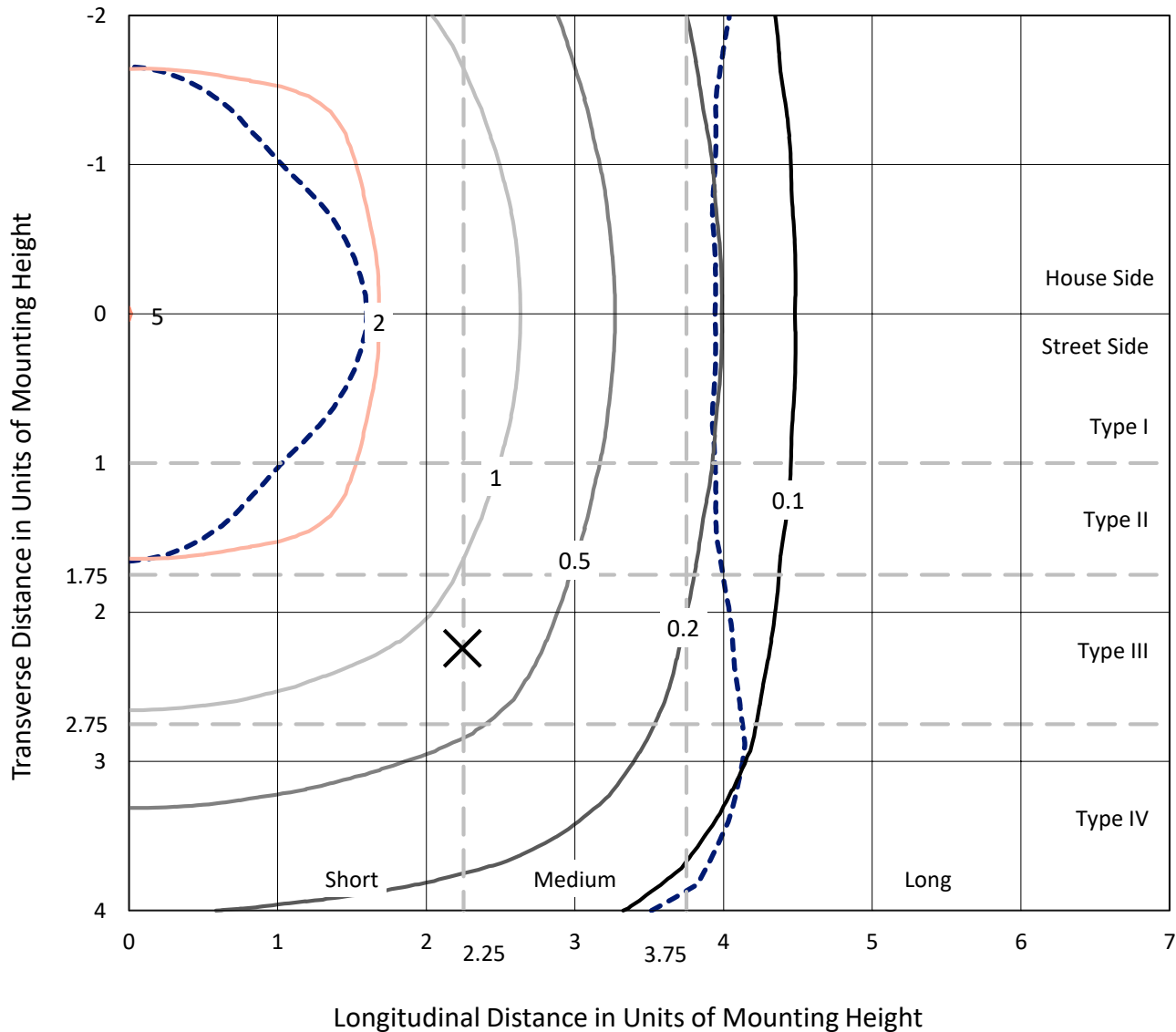
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

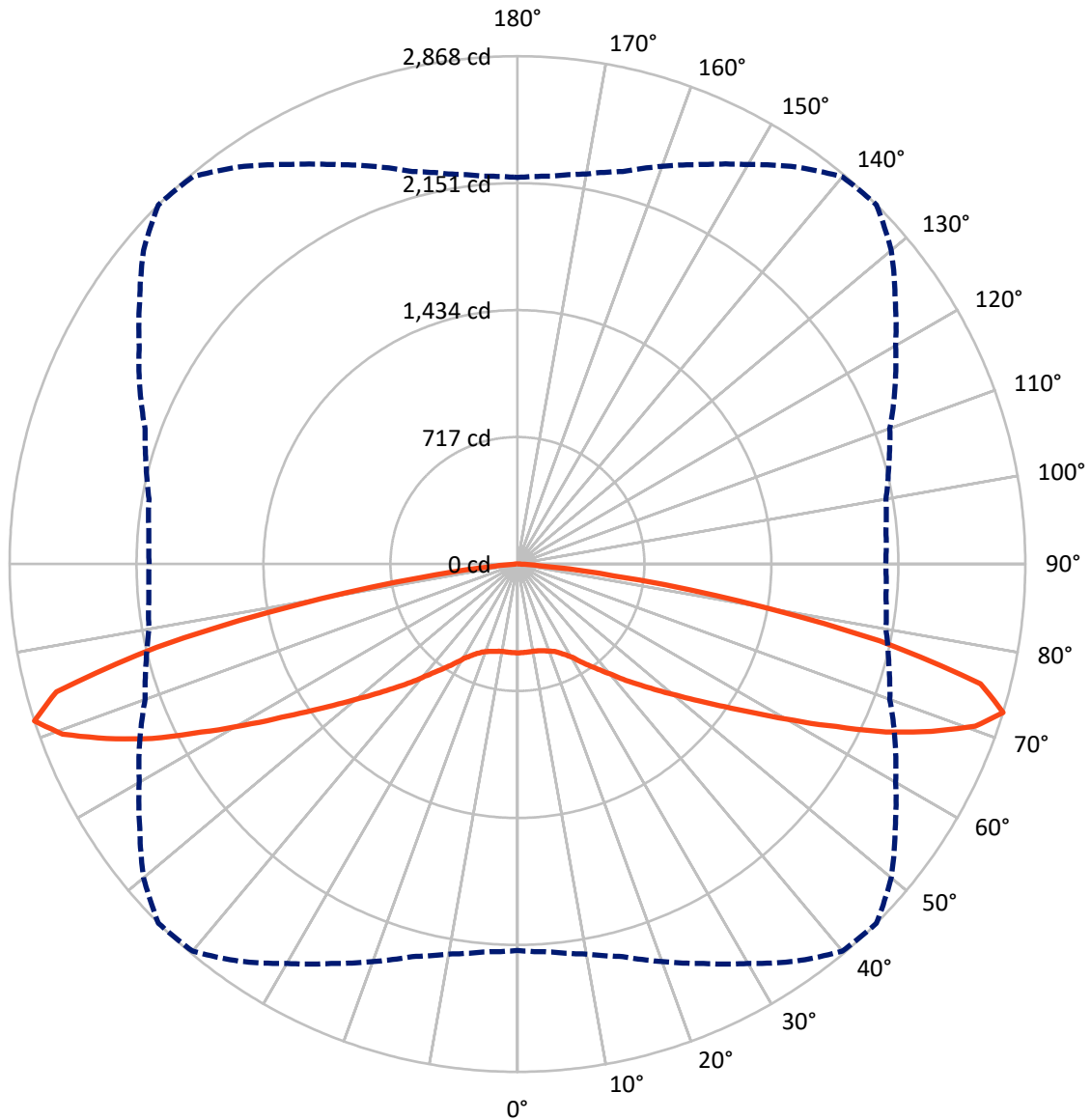
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - Semi-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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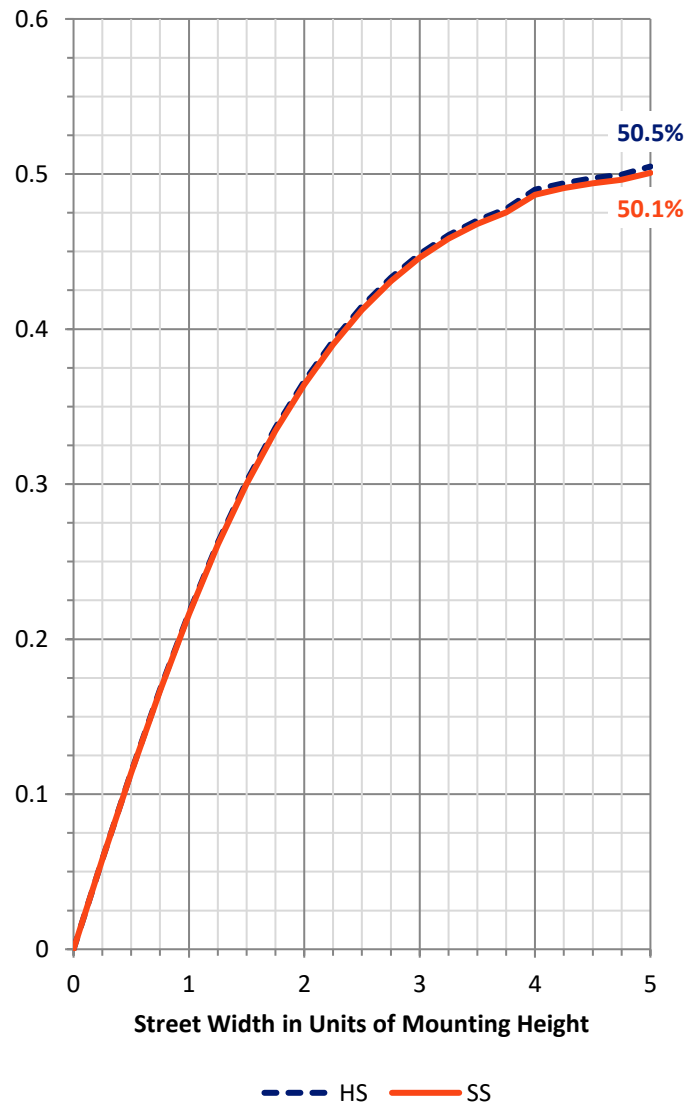
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3530.2	0.0	3530.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3530.2	0.0	3530.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	7060.4	0.0	7060.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	0.7
10°-20°	145.0	2.1
20°-30°	261.8	3.7
30°-40°	446.5	6.3
40°-50°	760.1	10.8
50°-60°	1223.3	17.3
60°-70°	2034.5	28.8
70°-80°	1968.1	27.9
80°-90°	173.2	2.5
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°	7060.4	100.0
0°-180°	7060.4	100.0



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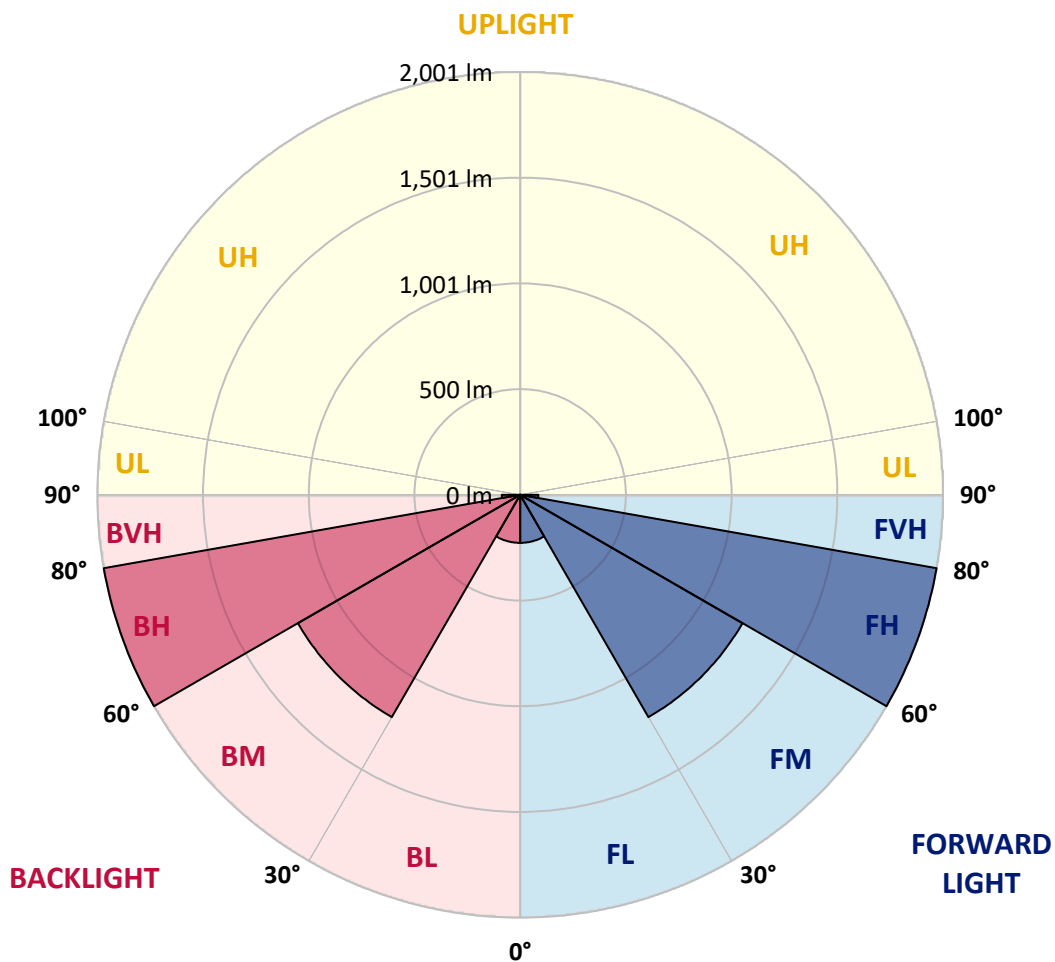
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	227.3	3.2			
FM	(30°-60°)	1215.0	17.2			
FH	(60°-80°)	2001.3	28.3			G2/5000
FVH	(80°-90°)	86.6	1.2			G1/100
BL	(0°-30°)	227.3	3.2	B1/500		
BM	(30°-60°)	1215.0	17.2	B2/2500		
BH	(60°-80°)	2001.3	28.3	B3/2500		G2/5000
BVH	(80°-90°)	86.6	1.2			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°	502.0	502.0	502.0	502.0	502.0	502.0	502.0	502.0	502.0	502.0	502.0
2.5°	505.8	505.8	506.3	505.8	505.0	504.5	503.3	502.4	501.6	501.0	500.2
5°	506.3	506.3	506.8	506.3	505.4	504.5	503.7	502.4	501.6	500.6	500.2
7.5°	508.0	508.5	508.9	508.5	506.8	505.8	504.5	503.3	501.6	500.6	499.8
10°	511.5	511.5	511.5	511.1	509.7	508.0	506.3	505.0	502.8	500.6	499.3
12.5°	514.1	514.5	514.5	513.7	512.0	509.7	508.0	506.8	505.0	503.3	502.0
15°	518.0	518.0	517.6	515.9	513.2	511.5	510.7	510.2	509.7	508.9	507.6
17.5°	525.8	525.4	524.1	521.5	518.4	517.1	516.3	516.3	516.3	515.9	515.0
20°	537.2	537.2	535.4	531.0	528.5	527.1	525.8	525.8	525.8	524.6	523.2
22.5°	555.4	555.9	553.2	548.0	544.5	542.0	540.2	538.9	537.6	536.7	534.5
25°	580.2	579.7	576.7	570.2	567.5	565.0	561.5	559.3	557.6	556.3	553.6
27.5°	606.2	605.8	602.3	596.7	594.9	591.1	588.4	585.3	583.2	581.0	578.5
30°	639.8	637.5	634.9	630.5	629.7	626.7	623.2	618.9	615.4	611.9	608.9
32.5°	669.7	669.7	665.7	663.6	665.3	664.0	664.5	661.8	659.7	658.4	655.3
35°	711.4	711.4	709.6	707.1	707.5	704.5	704.0	704.5	706.2	706.2	702.8
37.5°	767.0	767.9	762.3	761.4	759.2	754.8	752.7	753.6	757.5	759.6	754.8
40°	836.2	837.9	836.2	830.5	827.9	820.5	816.1	816.1	819.2	821.3	819.6
42.5°	904.4	907.4	904.4	900.0	897.8	892.2	890.1	891.8	895.7	898.3	895.7
45°	980.4	982.5	978.7	973.4	970.9	967.8	966.5	967.8	972.1	974.8	973.8
47.5°	1055.2	1058.2	1053.4	1051.3	1051.3	1048.2	1051.7	1055.2	1059.1	1065.2	1062.5
50°	1128.2	1132.1	1129.0	1129.4	1132.9	1138.6	1145.1	1152.0	1159.0	1165.6	1166.4
52.5°	1193.4	1199.4	1199.9	1207.7	1218.5	1227.2	1245.5	1260.7	1277.3	1282.9	1280.3
55°	1262.0	1270.3	1281.1	1293.3	1310.7	1328.5	1359.4	1386.7	1408.5	1421.9	1419.8
57.5°	1360.2	1368.5	1379.8	1399.8	1425.9	1450.2	1492.4	1534.9	1568.0	1588.4	1578.4
60°	1487.6	1496.3	1511.0	1532.4	1566.2	1599.3	1657.1	1718.4	1769.6	1793.1	1774.8
62.5°	1656.2	1664.4	1674.1	1702.3	1740.0	1782.7	1855.2	1933.9	1999.1	2021.7	1996.1
65°	1896.6	1906.5	1909.5	1932.6	1969.5	2009.1	2087.3	2175.9	2250.3	2287.2	2236.0
67.5°	2167.2	2171.2	2183.4	2210.3	2248.1	2283.7	2345.4	2429.3	2500.6	2521.0	2466.2
70°	2325.9	2333.7	2355.0	2392.4	2437.6	2493.6	2561.0	2651.4	2732.2	2741.8	2672.3
72.5°	2182.5	2198.5	2236.4	2294.6	2389.3	2488.8	2604.8	2738.3	2854.3	2867.8	2756.1
75°	1750.5	1768.8	1813.9	1877.8	1989.9	2137.7	2305.4	2505.8	2679.6	2701.8	2554.0
77.5°	933.0	955.6	1021.3	1107.3	1267.2	1462.8	1664.9	1893.5	2041.2	2091.2	1984.7
80°	235.1	247.2	279.0	329.4	437.6	595.4	769.7	1015.6	1199.0	1276.8	1199.0
82.5°	91.2	100.4	109.0	115.2	125.6	147.3	203.4	331.5	446.7	550.1	476.3
85°	35.2	37.3	53.9	61.3	61.3	67.3	77.3	91.2	113.0	123.5	103.4
87.5°	13.9	15.2	18.7	28.6	29.6	26.1	27.8	31.3	23.9	19.9	22.6
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°	502.0	502.0	502.0	502.0	502.0	502.0	502.0	502.0
2.5°	499.8	499.3	498.5	498.9	498.5	498.5	498.5	498.5
5°	499.3	499.3	498.5	498.5	498.5	498.9	498.5	498.5
7.5°	498.9	498.5	497.6	497.2	497.2	496.7	496.7	496.7
10°	498.1	497.2	496.3	495.8	495.8	495.0	495.0	495.0
12.5°	500.2	498.9	498.1	497.6	497.6	497.6	498.1	498.1
15°	506.3	503.7	502.4	502.0	502.4	503.3	503.7	504.1
17.5°	512.8	510.2	508.0	507.2	507.6	508.9	510.2	511.1
20°	521.1	518.8	516.3	515.5	515.5	517.1	518.0	519.4
22.5°	532.8	531.0	528.9	527.5	526.7	528.9	530.2	531.0
25°	551.5	549.7	548.0	546.7	546.3	548.4	549.3	549.7
27.5°	576.2	574.5	573.7	573.3	571.9	572.8	574.1	573.7
30°	608.5	609.7	608.5	608.5	606.2	607.1	606.2	605.4
32.5°	651.4	650.1	646.2	643.6	640.6	640.6	639.2	638.0
35°	694.5	690.1	687.9	689.3	687.9	688.9	686.6	684.5
37.5°	745.3	742.7	742.3	746.1	745.3	746.1	746.1	743.2
40°	812.6	810.9	814.0	820.5	823.1	822.7	823.6	819.6
42.5°	890.1	887.0	888.3	894.0	897.0	897.8	897.4	894.0
45°	967.4	968.2	968.2	974.4	977.3	979.1	976.1	974.8
47.5°	1054.8	1056.0	1053.0	1056.9	1057.7	1060.8	1058.2	1056.0
50°	1155.5	1150.8	1143.9	1145.1	1145.1	1144.3	1141.2	1138.6
52.5°	1268.2	1257.2	1244.2	1239.8	1235.1	1230.3	1224.3	1219.5
55°	1396.3	1377.6	1354.2	1343.3	1334.1	1323.3	1309.4	1304.6
57.5°	1545.0	1512.7	1481.5	1461.9	1438.5	1424.2	1406.4	1405.4
60°	1721.4	1677.9	1622.7	1593.7	1570.1	1553.1	1539.7	1534.5
62.5°	1925.2	1850.4	1790.9	1759.6	1732.3	1721.8	1704.8	1707.0
65°	2134.2	2058.2	2000.4	1975.2	1949.5	1942.6	1926.9	1932.6
67.5°	2360.7	2298.1	2234.6	2211.1	2187.7	2180.7	2164.7	2169.5
70°	2563.6	2484.0	2411.9	2365.9	2325.9	2293.8	2273.3	2265.0
72.5°	2604.0	2466.2	2352.8	2237.7	2171.2	2112.9	2089.1	2079.9
75°	2339.8	2126.0	1964.3	1829.1	1754.4	1669.7	1660.6	1648.0
77.5°	1820.0	1576.7	1381.1	1207.3	1106.8	1003.4	967.8	940.9
80°	1085.6	834.4	646.6	453.3	369.8	297.7	279.9	261.2
82.5°	388.5	249.0	167.8	130.8	116.9	107.8	100.9	91.7
85°	93.9	79.1	74.8	67.8	66.9	57.0	40.4	36.1
87.5°	30.0	27.4	27.8	26.5	27.8	20.9	17.0	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)