

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: P198684

Luminaire Tested: **XNV-AF-01-LED-U-RW-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198684
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: XNV-AF-01-LED-U-RW-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5108.6 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 44
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

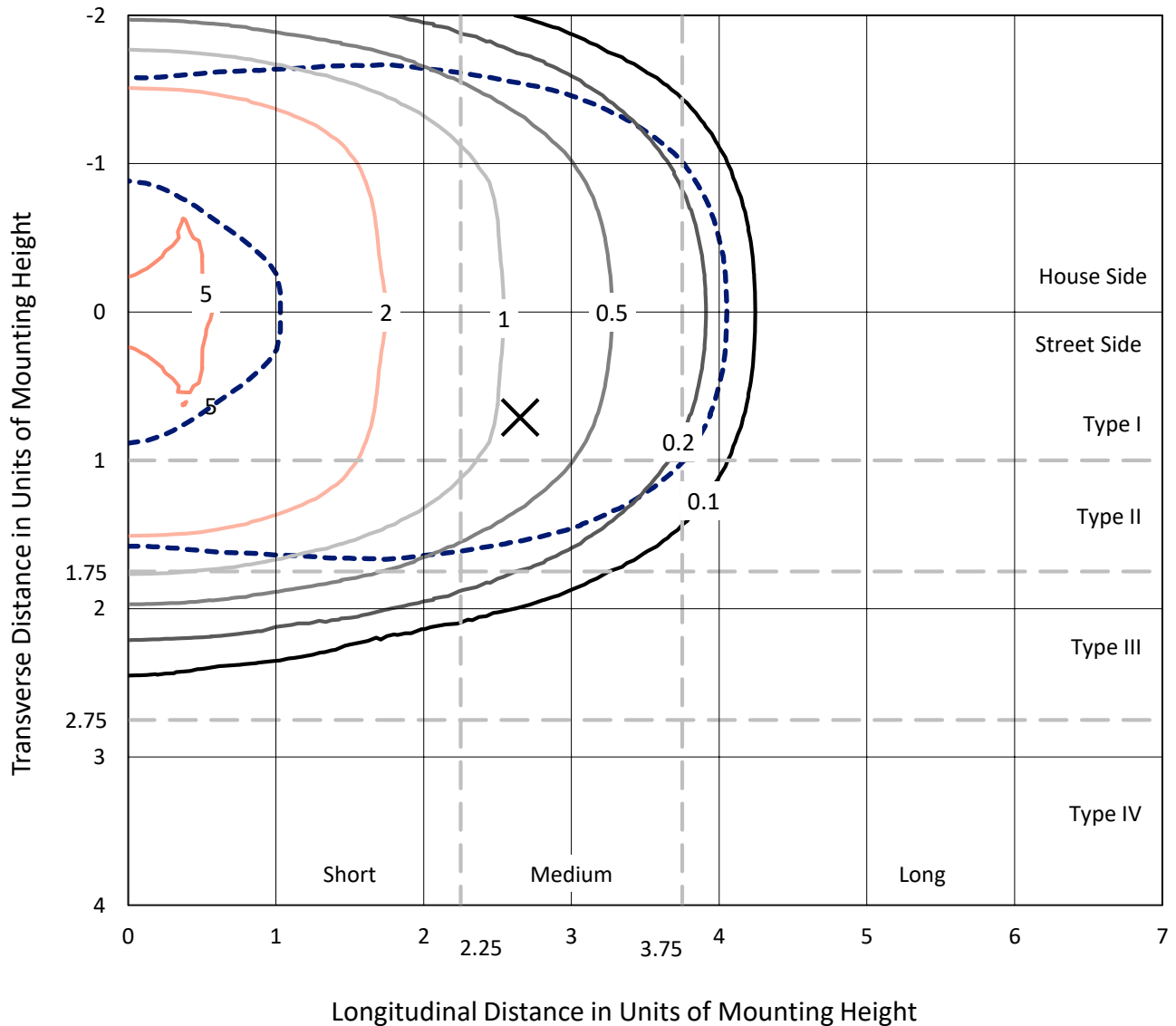


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Iso-Footcandle Lines of Horizontal Illumination

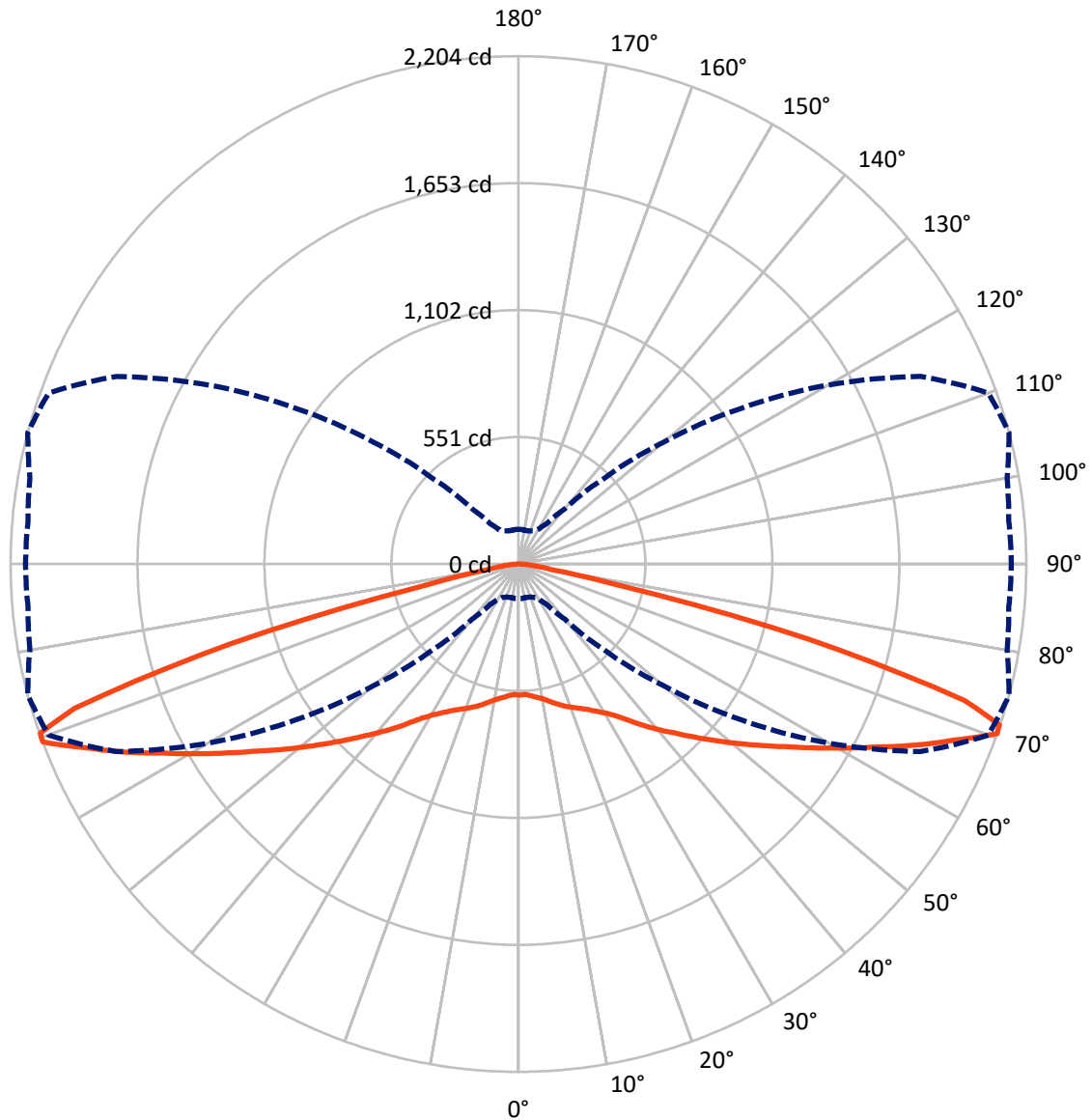
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 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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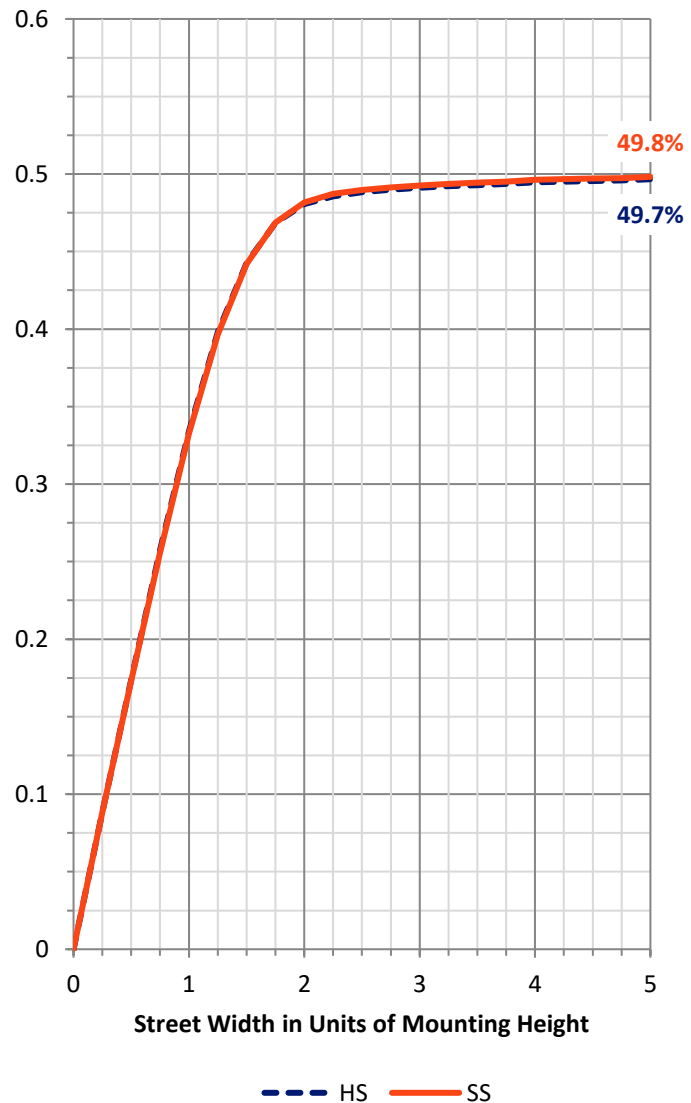
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2554.3	0.0	2554.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2554.3	0.0	2554.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	5108.6	0.0	5108.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	1.1
10°-20°	169.2	3.3
20°-30°	317.8	6.2
30°-40°	559.9	11.0
40°-50°	927.9	18.2
50°-60°	1290.9	25.3
60°-70°	1218.6	23.9
70°-80°	520.5	10.2
80°-90°	49.2	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°	5108.6	100.0
0°-180°	5108.6	100.0



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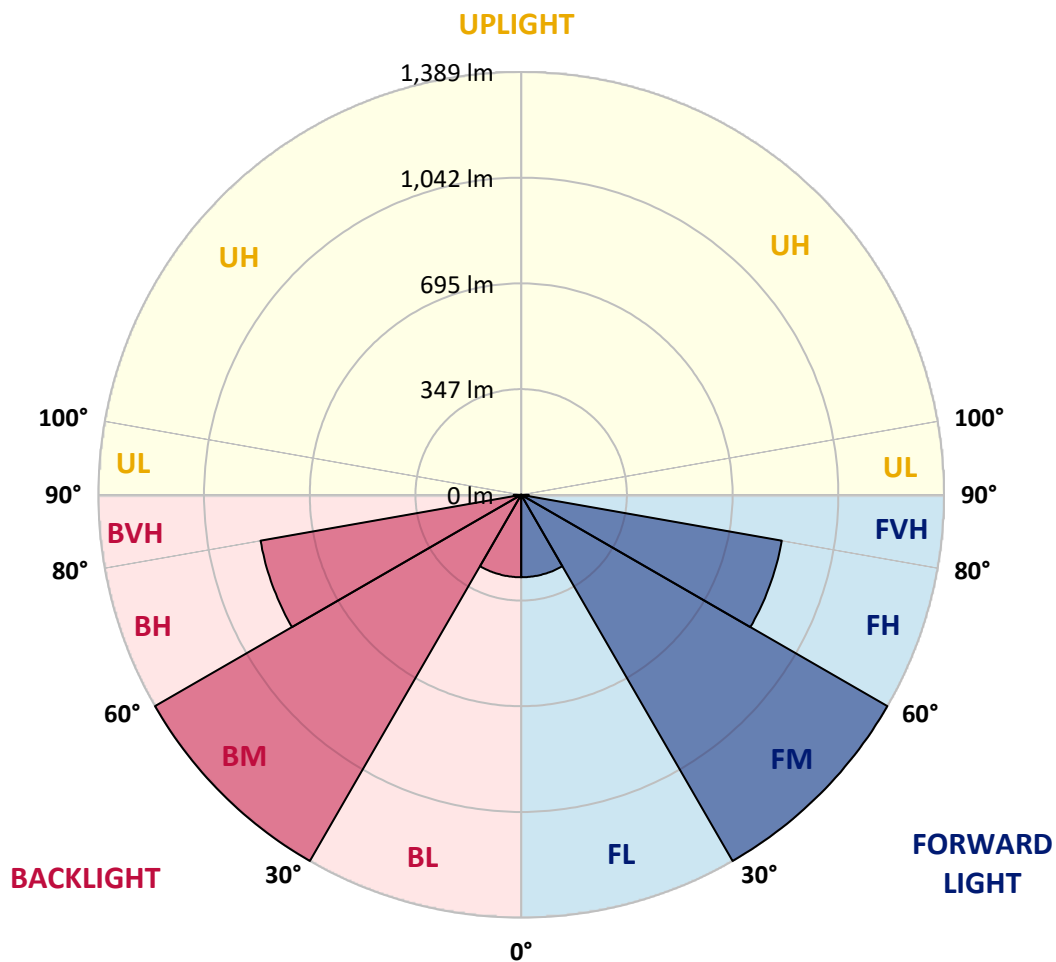
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.8	5.3			
FM	(30°-60°)	1389.3	27.2			
FH	(60°-80°)	869.5	17.0			G1/1800
FVH	(80°-90°)	24.6	0.5			G1/100
BL	(0°-30°)	270.8	5.3	B1/500		
BM	(30°-60°)	1389.3	27.2	B2/2500		
BH	(60°-80°)	869.5	17.0	B2/1000		G1/1800
BVH	(80°-90°)	24.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	568.9	568.9	568.9	568.9	568.9	568.9	568.9	568.9	568.9	568.9	568.9
2.5°	572.4	572.1	572.4	571.4	571.7	571.4	571.4	570.2	570.2	569.6	568.6
5°	566.0	566.6	566.6	566.6	567.6	567.6	568.9	569.2	570.2	571.1	571.7
7.5°	555.5	555.8	556.7	557.4	559.2	561.8	564.4	567.3	569.9	573.1	576.5
10°	546.5	547.1	548.7	550.3	553.8	557.1	561.5	566.0	570.5	575.9	581.3
12.5°	541.7	542.7	545.2	547.8	553.2	557.4	563.4	570.5	576.5	581.6	587.8
15°	542.4	542.7	546.2	549.7	557.4	563.1	571.7	580.1	587.5	593.2	600.3
17.5°	551.6	552.3	555.8	560.9	568.2	575.6	584.9	593.5	603.4	610.2	618.5
20°	569.9	570.8	574.7	580.1	588.1	595.8	605.4	614.4	624.6	632.6	640.9
22.5°	593.5	595.2	599.3	606.0	614.1	623.3	633.2	642.5	652.1	660.1	667.2
25°	625.2	627.2	631.7	638.3	646.4	656.3	666.6	676.2	686.1	692.1	698.0
27.5°	667.8	671.1	675.9	681.3	688.3	698.9	708.5	716.5	726.1	732.8	736.6
30°	725.2	729.6	733.5	739.2	744.3	755.6	763.2	769.7	777.0	780.8	781.7
32.5°	795.2	799.4	803.2	807.4	814.5	824.7	832.1	835.5	839.4	838.8	835.2
35°	874.3	877.5	879.7	887.1	898.7	905.4	910.8	912.1	912.8	906.0	899.3
37.5°	957.6	961.4	963.3	974.9	985.7	993.4	995.9	998.8	997.0	985.7	973.5
40°	1047.5	1051.7	1057.4	1067.3	1080.1	1087.5	1090.8	1090.4	1088.8	1075.6	1055.8
42.5°	1135.9	1141.0	1145.8	1163.1	1173.6	1186.1	1187.7	1187.4	1183.9	1168.8	1145.8
45°	1210.8	1216.9	1226.8	1246.0	1262.9	1278.0	1284.1	1286.4	1282.8	1266.8	1240.5
47.5°	1272.6	1276.7	1289.2	1312.5	1334.3	1356.4	1368.6	1377.3	1376.9	1365.4	1337.5
50°	1314.8	1319.6	1335.0	1361.2	1388.5	1414.4	1438.4	1457.9	1467.2	1458.9	1432.9
52.5°	1327.0	1333.1	1353.3	1384.7	1416.3	1451.2	1487.1	1521.6	1542.4	1547.6	1527.4
55°	1275.7	1282.5	1311.9	1355.5	1407.7	1459.2	1513.7	1563.0	1605.8	1625.7	1617.7
57.5°	1126.6	1131.4	1168.8	1225.2	1299.8	1390.4	1481.9	1572.2	1645.8	1697.4	1706.4
60°	891.0	897.0	938.0	997.6	1082.4	1197.1	1325.0	1472.9	1617.4	1735.5	1794.1
62.5°	601.2	605.4	644.8	699.2	792.1	902.4	1045.3	1232.6	1438.4	1649.4	1814.6
65°	315.7	315.7	342.3	380.3	454.3	553.2	699.5	891.6	1136.5	1400.0	1676.3
67.5°	183.1	182.8	188.8	197.5	220.9	261.0	341.6	482.7	714.5	1021.2	1335.7
70°	151.1	150.2	149.1	149.1	152.7	158.8	174.2	212.9	311.5	526.6	821.8
71°	144.3	143.7	141.2	140.2	141.8	145.1	151.7	169.7	221.3	359.2	613.7
72.5°	136.4	134.8	130.9	129.3	129.6	130.9	132.9	139.9	155.6	204.3	350.0
75°	124.2	120.4	115.6	113.3	112.3	112.0	112.0	114.0	117.5	123.3	143.4
77.5°	110.2	104.6	99.5	97.3	95.7	94.7	94.1	92.9	92.2	94.7	102.1
80°	93.2	87.4	83.3	81.9	81.0	79.1	76.5	74.0	72.3	73.7	78.2
82.5°	72.0	66.3	66.9	67.2	65.7	62.4	59.8	57.0	54.1	53.5	55.8
85°	57.3	54.4	52.5	56.7	53.2	49.3	45.8	41.0	34.3	28.1	30.7
87.5°	24.7	25.0	35.9	54.1	47.4	38.1	31.7	25.6	16.4	12.2	12.5
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°	568.9	568.9	568.9	568.9	568.9	568.9	568.9	568.9
2.5°	568.2	568.2	567.3	566.6	566.6	566.6	566.0	566.3
5°	572.1	572.8	573.4	573.1	574.0	575.0	574.7	574.4
7.5°	578.5	580.4	582.4	583.3	584.6	585.8	586.2	585.2
10°	584.9	588.7	591.7	594.2	595.8	597.1	598.0	597.7
12.5°	592.9	598.3	603.4	608.6	612.1	614.1	615.9	615.3
15°	606.0	612.1	618.5	625.2	630.6	633.5	636.5	635.8
17.5°	624.0	629.4	634.5	641.3	647.9	651.2	654.4	654.1
20°	646.4	650.5	653.5	657.2	663.7	667.2	670.0	669.1
22.5°	672.0	673.3	673.6	674.8	680.0	684.1	688.0	689.0
25°	699.8	698.9	696.9	696.0	699.5	704.0	708.8	710.0
27.5°	734.4	731.2	726.4	722.6	723.5	729.3	734.7	736.0
30°	778.0	770.6	760.4	753.0	751.7	757.8	763.5	765.5
32.5°	827.6	817.6	803.5	792.4	787.6	793.0	798.1	801.0
35°	886.5	875.5	858.7	844.2	836.6	840.0	849.0	852.2
37.5°	956.3	941.2	922.3	904.1	891.3	891.9	901.5	905.4
40°	1033.4	1011.7	987.7	964.9	946.3	945.1	953.7	956.6
42.5°	1113.8	1086.0	1057.7	1028.0	1004.9	1000.8	1012.0	1012.3
45°	1200.2	1164.3	1129.4	1094.9	1070.9	1063.6	1074.4	1075.6
47.5°	1292.4	1247.6	1206.3	1168.8	1142.9	1131.4	1141.9	1143.9
50°	1388.5	1342.0	1294.0	1252.4	1222.0	1207.9	1220.4	1221.7
52.5°	1483.6	1439.7	1392.0	1344.3	1307.4	1291.5	1306.2	1310.7
55°	1579.2	1537.0	1492.2	1444.5	1398.1	1384.0	1400.0	1404.8
57.5°	1678.9	1638.2	1597.5	1549.5	1504.4	1482.9	1500.2	1506.9
60°	1788.6	1752.8	1714.4	1666.0	1621.5	1596.5	1611.2	1618.9
62.5°	1896.6	1889.2	1854.3	1804.0	1747.7	1722.6	1735.1	1740.7
65°	1905.5	2024.9	2023.3	1973.4	1894.6	1852.7	1856.1	1858.7
67.5°	1663.1	1937.2	2112.3	2127.9	2040.3	1974.6	1966.9	1968.6
70°	1177.5	1553.7	1925.3	2169.3	2203.8	2153.0	2136.3	2138.9
71°	943.5	1333.1	1742.2	2070.4	2201.3	2186.6	2177.2	2184.0
72.5°	602.2	982.2	1380.5	1773.0	2024.2	2096.3	2106.9	2111.1
75°	218.7	422.6	715.2	1024.8	1298.8	1487.4	1591.1	1599.5
77.5°	117.5	151.4	234.1	349.6	439.3	487.2	493.1	495.2
80°	86.4	100.2	114.6	130.9	141.2	143.1	139.6	132.3
82.5°	61.2	69.2	74.9	80.7	84.8	81.3	67.5	51.6
85°	35.5	39.1	42.2	45.1	45.8	43.2	28.5	23.3
87.5°	14.1	15.3	15.0	17.0	16.4	15.0	11.3	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)