

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: P270741

Luminaire Tested: **NVN-AF-01-LED-U-RW-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270741
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: NVN-AF-01-LED-U-RW-7027
Description: NAVION ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5423.7 lumens
Efficiency: N/A
Efficacy: 91.9 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): 59
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

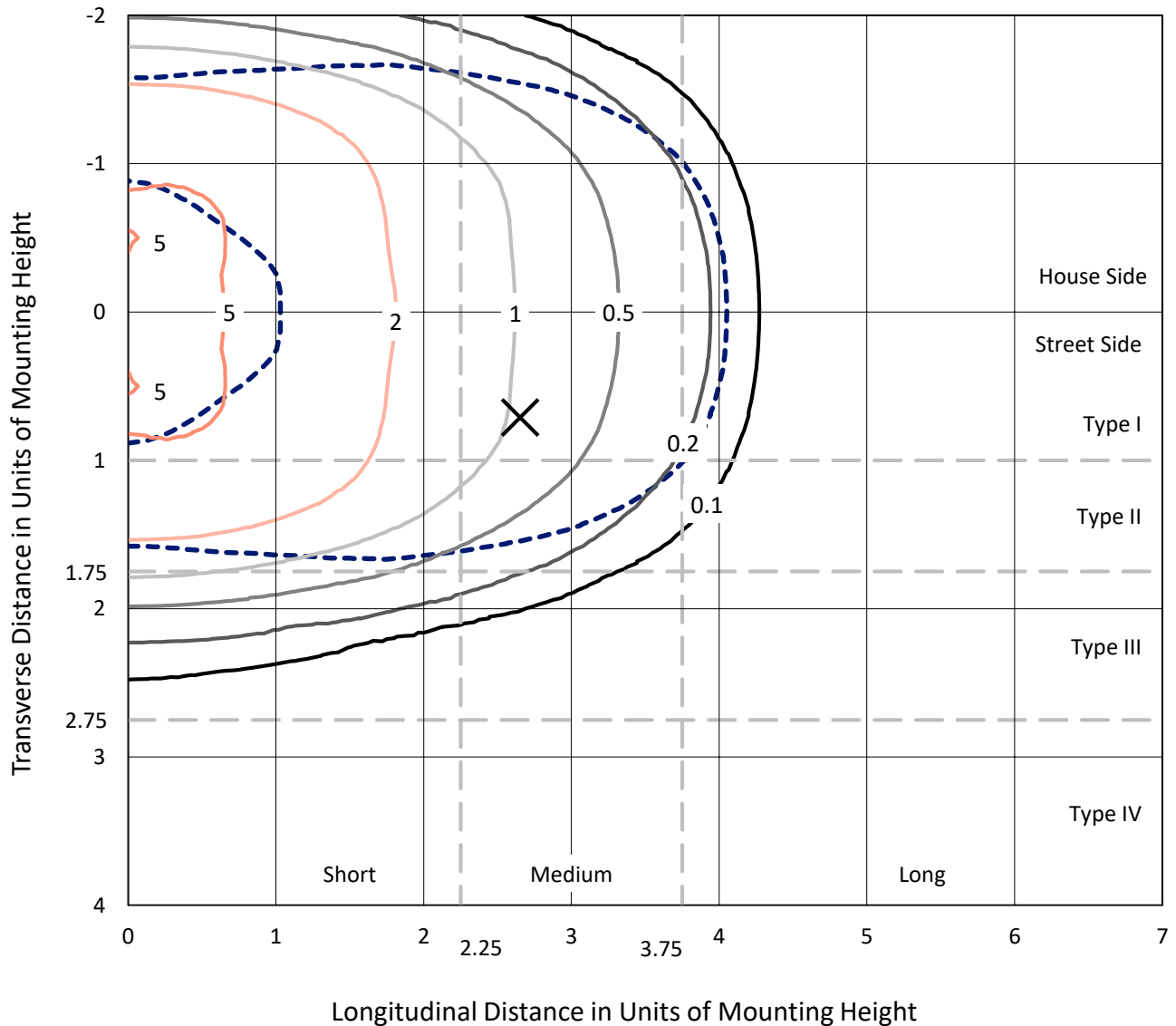


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Iso-Footcandle Lines of Horizontal Illumination

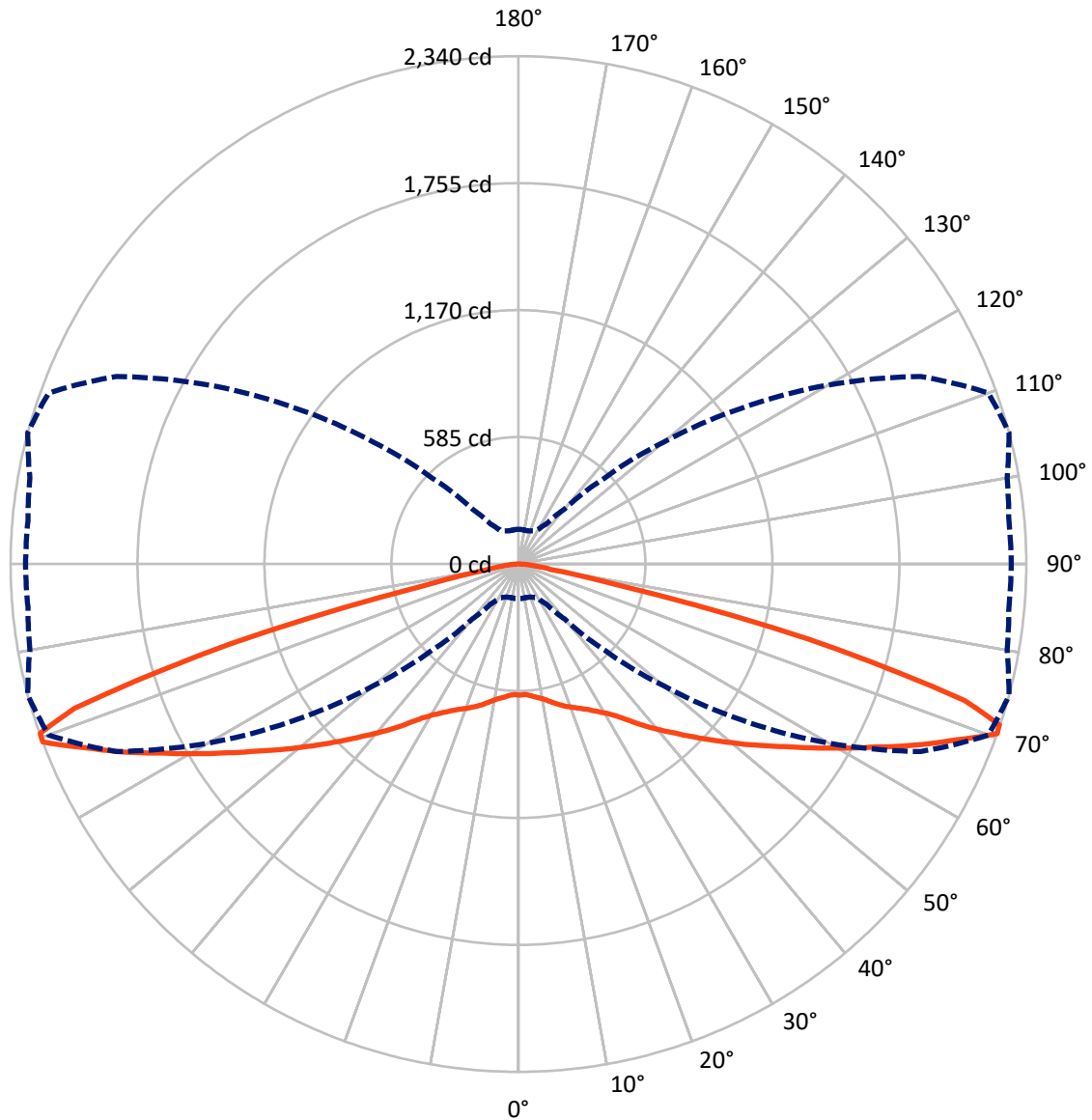
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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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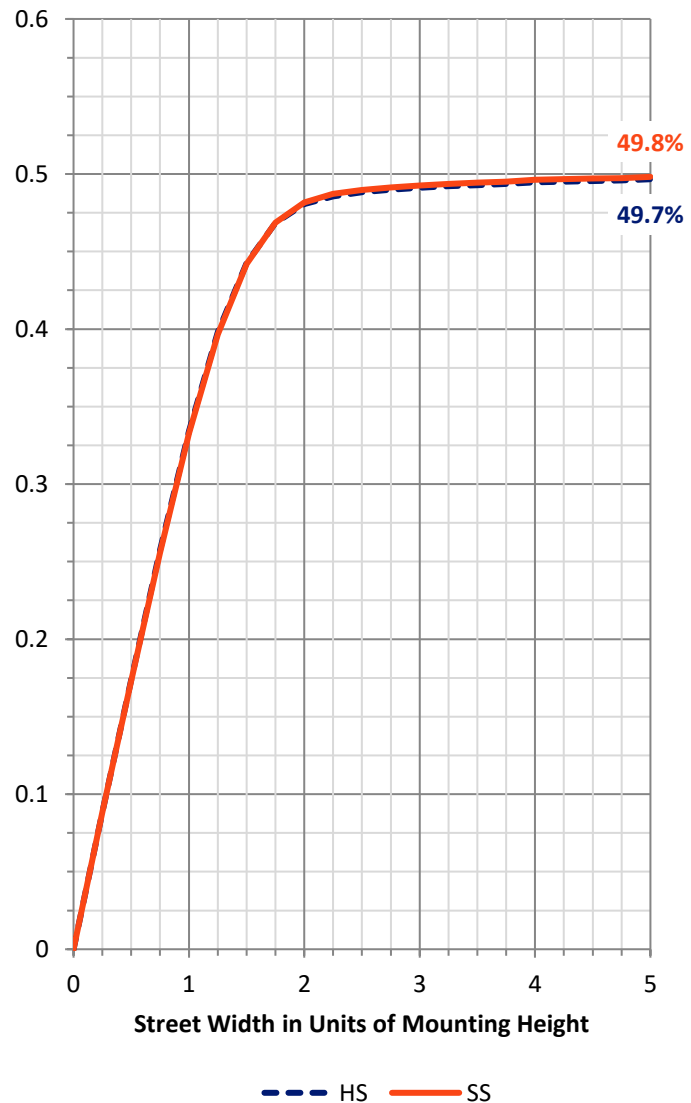
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2711.8	0.0	2711.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2711.8	0.0	2711.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	5423.7	0.0	5423.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	1.1
10°-20°	179.7	3.3
20°-30°	337.4	6.2
30°-40°	594.4	11.0
40°-50°	985.2	18.2
50°-60°	1370.5	25.3
60°-70°	1293.8	23.9
70°-80°	552.6	10.2
80°-90°	52.2	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°	5423.7	100.0
0°-180°	5423.7	100.0



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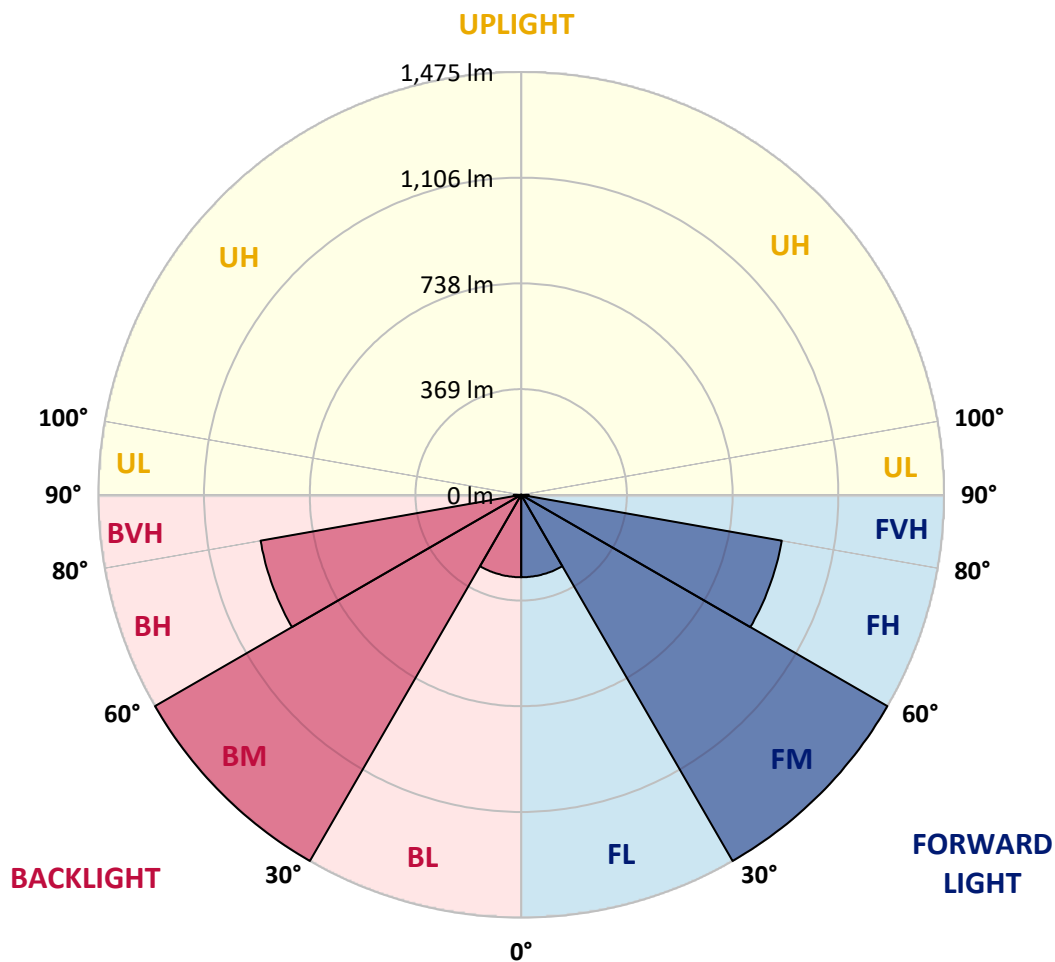
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	287.5	5.3			
FM	(30°-60°)	1475.0	27.2			
FH	(60°-80°)	923.2	17.0			G1/1800
FVH	(80°-90°)	26.1	0.5			G1/100
BL	(0°-30°)	287.5	5.3	B1/500		
BM	(30°-60°)	1475.0	27.2	B2/2500		
BH	(60°-80°)	923.2	17.0	B2/1000		G1/1800
BVH	(80°-90°)	26.1	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°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	607.8	607.3	607.8	606.6	607.1	606.6	606.6	605.4	605.4	604.6	603.7
5°	601.0	601.5	601.5	601.5	602.7	602.7	604.0	604.3	605.4	606.4	607.1
7.5°	589.6	590.0	591.1	591.8	593.8	596.6	599.2	602.3	605.0	608.4	612.1
10°	580.1	580.8	582.6	584.3	588.0	591.4	596.1	601.0	605.6	611.4	617.2
12.5°	575.0	576.2	578.8	581.6	587.3	591.8	598.2	605.6	612.1	617.6	624.1
15°	575.8	576.2	579.9	583.5	591.8	597.8	607.1	615.9	623.8	629.8	637.3
17.5°	585.6	586.4	590.0	595.4	603.3	611.0	621.0	630.2	640.8	647.8	656.8
20°	605.0	606.0	610.0	615.9	624.4	632.5	642.7	652.2	663.0	671.7	680.5
22.5°	630.2	631.9	636.3	643.4	651.9	661.7	672.3	682.2	692.4	700.9	708.4
25°	663.8	665.9	670.6	677.7	686.2	696.7	707.7	717.8	728.3	734.9	740.9
27.5°	709.0	712.4	717.4	723.2	730.7	742.0	752.2	760.7	770.8	778.0	782.1
30°	769.8	774.6	778.7	784.8	790.1	802.1	810.4	817.1	825.0	829.0	830.0
32.5°	844.2	848.7	852.9	857.3	864.7	875.6	883.4	887.0	891.2	890.5	886.7
35°	928.2	931.6	934.0	941.9	954.1	961.1	966.9	968.4	969.0	961.8	954.8
37.5°	1016.6	1020.7	1022.7	1034.9	1046.5	1054.7	1057.3	1060.4	1058.5	1046.5	1033.6
40°	1112.1	1116.6	1122.6	1133.2	1146.7	1154.6	1157.9	1157.6	1155.9	1142.0	1120.9
42.5°	1206.0	1211.4	1216.5	1234.8	1245.9	1259.2	1261.0	1260.6	1256.9	1240.9	1216.5
45°	1285.5	1291.9	1302.5	1322.8	1340.9	1356.8	1363.3	1365.7	1361.9	1344.9	1317.0
47.5°	1351.1	1355.5	1368.7	1393.5	1416.6	1440.2	1453.0	1462.3	1461.8	1449.7	1420.0
50°	1396.0	1400.9	1417.3	1445.3	1474.1	1501.6	1527.1	1547.8	1557.8	1548.9	1521.3
52.5°	1408.8	1415.3	1436.7	1469.9	1503.7	1540.8	1578.9	1615.5	1637.6	1643.0	1621.6
55°	1354.5	1361.7	1392.8	1439.1	1494.5	1549.1	1607.0	1659.3	1704.9	1726.0	1717.5
57.5°	1196.1	1201.2	1240.9	1300.7	1379.9	1476.2	1573.3	1669.2	1747.4	1802.1	1811.6
60°	945.9	952.4	996.0	1059.1	1149.1	1270.8	1406.7	1563.8	1717.1	1842.6	1904.8
62.5°	638.3	642.7	684.5	742.3	840.9	958.1	1109.8	1308.7	1527.1	1751.1	1926.4
65°	335.2	335.2	363.4	403.8	482.3	587.3	742.7	946.5	1206.7	1486.3	1779.6
67.5°	194.5	194.0	200.5	209.8	234.5	276.9	362.6	512.6	758.6	1084.3	1418.1
70°	160.4	159.4	158.5	158.5	162.1	168.6	185.0	226.1	330.7	559.1	872.6
71°	153.3	152.6	149.8	148.8	150.6	154.0	161.1	180.1	234.8	381.3	651.6
72.5°	144.7	143.1	139.0	137.4	137.7	139.0	141.0	148.5	165.2	216.9	371.4
75°	132.0	127.7	122.7	120.4	119.4	118.9	118.9	121.0	124.8	130.9	152.3
77.5°	116.9	111.1	105.7	103.3	101.6	100.6	99.9	98.5	97.8	100.6	108.4
80°	99.0	92.7	88.4	87.0	86.0	83.9	81.2	78.5	76.8	78.2	83.0
82.5°	76.4	70.3	71.1	71.3	69.7	66.3	63.6	60.5	57.4	56.8	59.2
85°	60.8	57.9	55.8	60.1	56.5	52.3	48.6	43.5	36.4	30.0	32.6
87.5°	26.2	26.5	38.1	57.4	50.3	40.5	33.6	27.2	17.3	12.9	13.2
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°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	603.3	603.3	602.3	601.5	601.5	601.5	601.0	601.2
5°	607.3	608.1	608.7	608.4	609.4	610.5	610.0	609.8
7.5°	614.3	616.1	618.3	619.3	620.5	621.9	622.3	621.3
10°	621.0	625.0	628.2	630.8	632.5	633.8	634.9	634.6
12.5°	629.4	635.2	640.8	646.2	649.8	651.9	654.0	653.2
15°	643.4	649.8	656.8	663.8	669.5	672.7	675.6	675.0
17.5°	662.4	668.2	673.6	680.7	687.9	691.3	694.7	694.4
20°	686.2	690.6	693.8	697.9	704.6	708.4	711.4	710.4
22.5°	713.4	714.8	715.1	716.5	721.9	726.3	730.4	731.4
25°	743.0	742.0	739.9	738.9	742.7	747.4	752.5	753.9
27.5°	779.6	776.2	771.3	767.2	768.1	774.2	780.1	781.3
30°	825.9	818.0	807.2	799.4	798.1	804.5	810.6	812.6
32.5°	878.6	868.0	853.1	841.3	836.1	841.9	847.3	850.3
35°	941.2	929.6	911.6	896.2	888.2	891.8	901.4	904.8
37.5°	1015.3	999.3	979.2	959.7	946.3	947.0	957.1	961.1
40°	1097.2	1074.1	1048.5	1024.3	1004.8	1003.3	1012.5	1015.5
42.5°	1182.4	1152.9	1123.1	1091.4	1066.8	1062.4	1074.5	1074.7
45°	1274.2	1236.2	1199.1	1162.3	1137.0	1129.1	1140.7	1142.0
47.5°	1372.2	1324.6	1280.8	1240.9	1213.4	1201.2	1212.4	1214.4
50°	1474.1	1424.8	1373.8	1329.6	1297.3	1282.4	1295.6	1297.1
52.5°	1575.1	1528.5	1477.8	1427.1	1388.2	1371.2	1386.8	1391.5
55°	1676.6	1631.9	1584.3	1533.5	1484.3	1469.4	1486.3	1491.5
57.5°	1782.3	1739.2	1696.0	1645.1	1597.1	1574.4	1592.8	1599.8
60°	1898.9	1860.8	1820.1	1768.8	1721.5	1695.0	1710.6	1718.7
62.5°	2013.6	2005.6	1968.6	1915.2	1855.4	1828.9	1842.2	1848.0
65°	2023.1	2149.7	2148.0	2095.0	2011.5	1966.8	1970.6	1973.3
67.5°	1765.7	2056.7	2242.6	2259.2	2166.2	2096.5	2088.3	2089.9
70°	1250.1	1649.5	2044.1	2303.1	2339.7	2285.7	2268.1	2270.7
71°	1001.6	1415.3	1849.7	2198.1	2337.1	2321.4	2311.6	2318.7
72.5°	639.4	1042.8	1465.6	1882.3	2149.1	2225.6	2236.8	2241.2
75°	232.1	448.7	759.2	1087.9	1378.9	1579.1	1689.3	1698.1
77.5°	124.8	160.7	248.4	371.2	466.3	517.3	523.4	525.8
80°	91.7	106.4	121.7	139.0	149.8	152.0	148.2	140.3
82.5°	64.9	73.4	79.5	85.7	90.1	86.3	71.8	54.7
85°	37.6	41.4	44.8	47.9	48.6	46.0	30.3	24.9
87.5°	14.9	16.3	16.0	18.1	17.3	16.0	11.9	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)