

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: P960462

Luminaire Tested: **NVN-SB1C-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1C-827-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6790.6 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

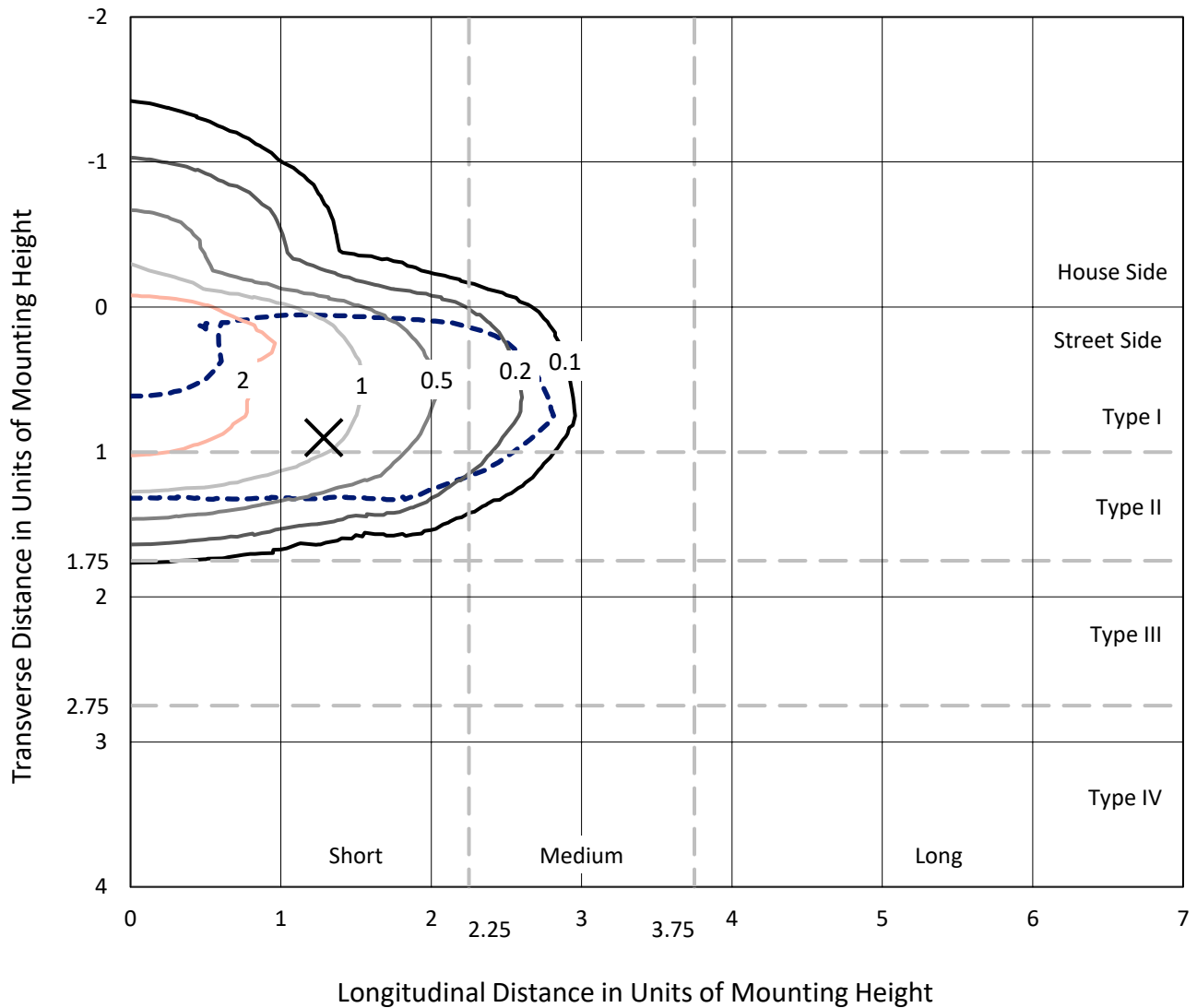
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

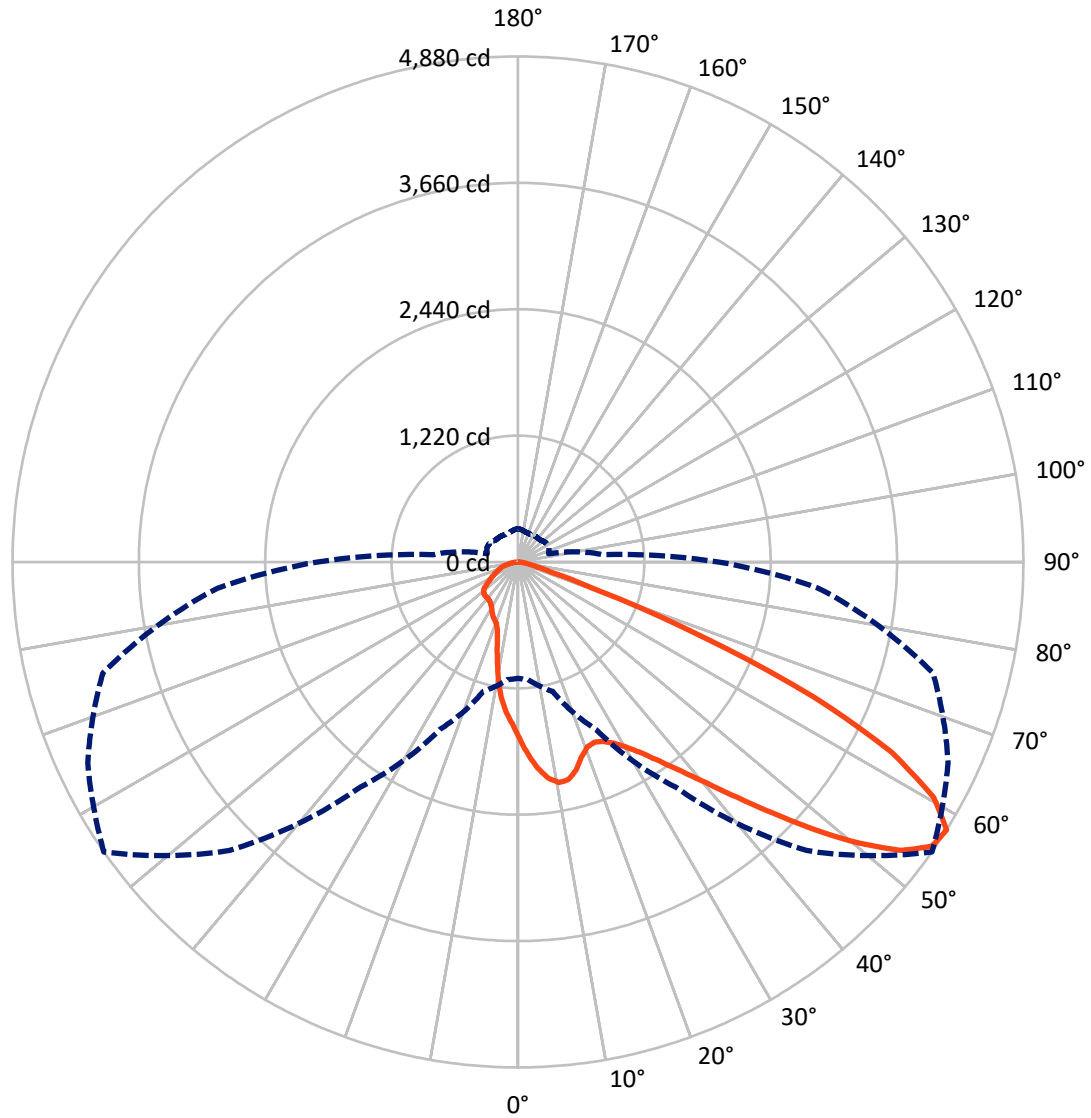
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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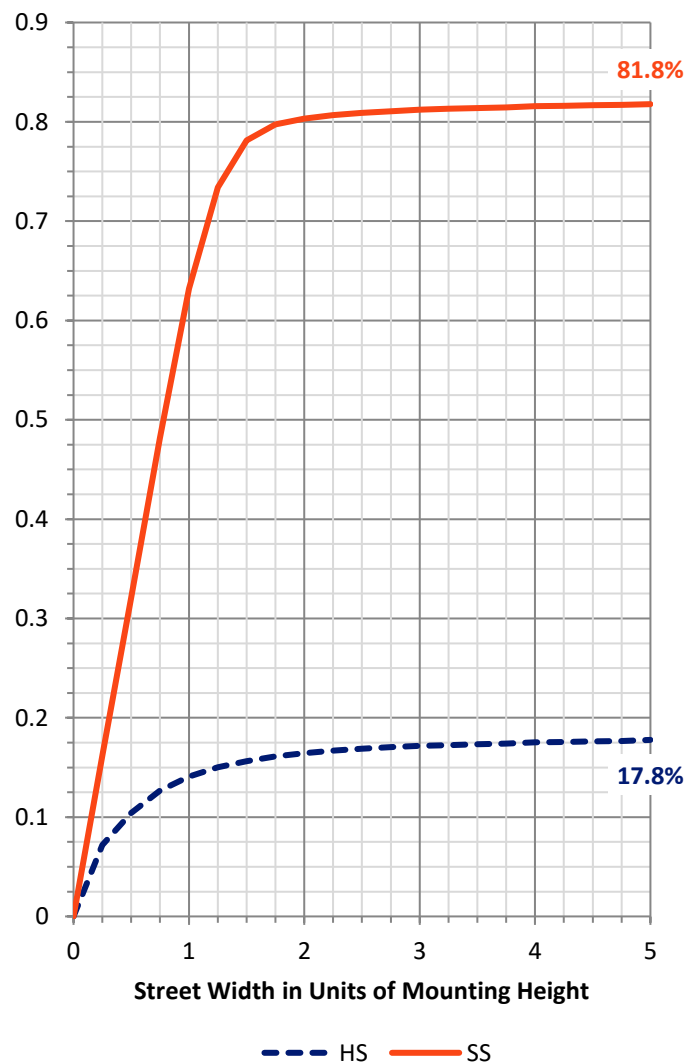
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1228.7	0.0	1228.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5561.9	0.0	5561.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	6790.6	0.0	6790.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	2.3
10°-20°	398.5	5.9
20°-30°	635.9	9.4
30°-40°	1006.8	14.8
40°-50°	1541.1	22.7
50°-60°	1650.6	24.3
60°-70°	1038.4	15.3
70°-80°	307.1	4.5
80°-90°	54.3	0.8
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°	6790.6	100.0
0°-180°	6790.6	100.0

Coefficient of Utilization



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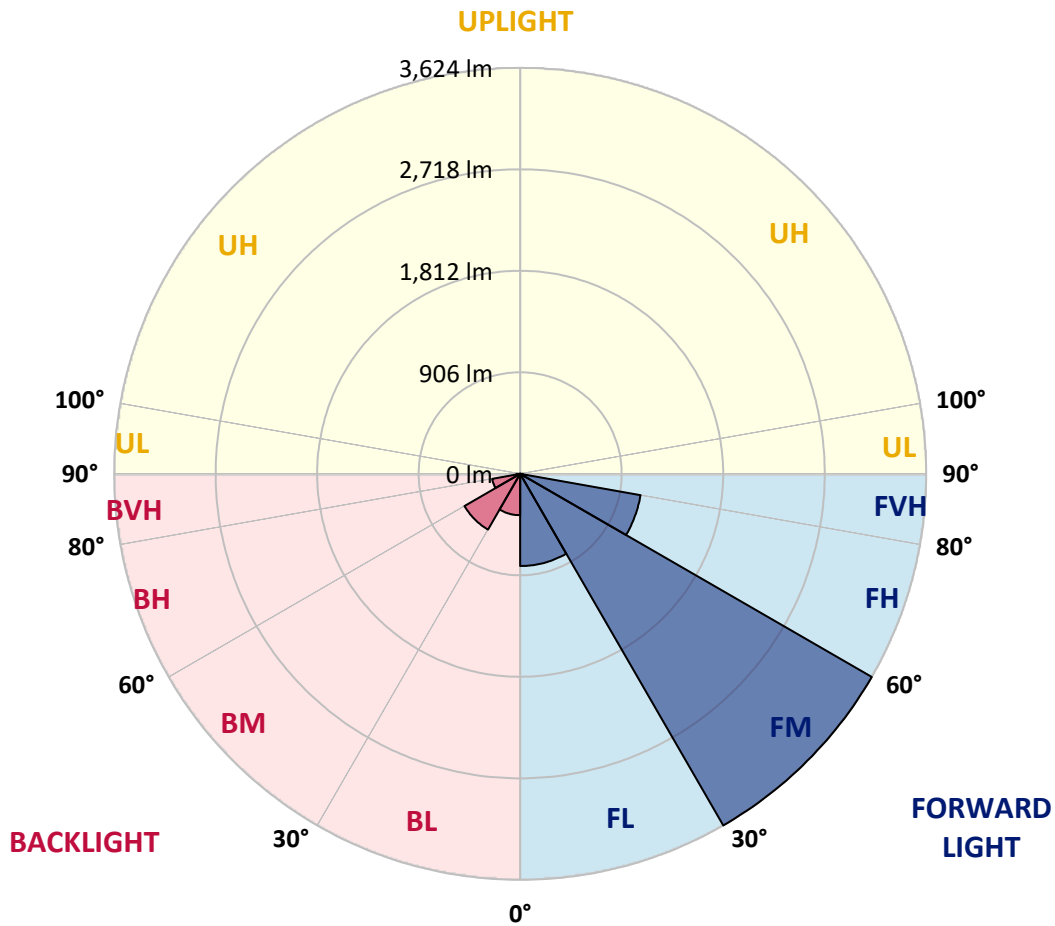
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	823.0	12.1			
FM (30°-60°)	3624.2	53.4			
FH (60°-80°)	1091.7	16.1			G1/1800
FVH (80°-90°)	22.9	0.3			G1/100
BL (0°-30°)	369.3	5.4	B1/500		
BM (30°-60°)	574.3	8.5	B1/1000		
BH (60°-80°)	253.8	3.7	B1/500		G1/500
BVH (80°-90°)	31.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5
2.5°	1952.1	1950.8	1958.5	1932.1	1914.3	1890.0	1858.1	1817.3	1773.5	1727.1	1707.1
5°	2128.0	2115.7	2123.8	2104.1	2084.5	2048.0	2000.6	1934.3	1853.2	1760.8	1711.6
7.5°	2100.3	2091.8	2112.6	2130.2	2144.9	2140.3	2105.6	2036.1	1931.4	1797.3	1726.1
10°	1876.7	1867.2	1896.4	1957.0	2046.2	2123.8	2165.9	2122.8	2011.5	1837.4	1740.1
12.5°	1679.4	1674.8	1694.1	1743.3	1842.2	1991.2	2158.2	2198.6	2094.7	1884.8	1759.1
15°	1595.1	1589.6	1601.8	1626.8	1689.9	1828.6	2088.0	2250.6	2176.5	1939.5	1789.2
17.5°	1576.6	1570.2	1575.5	1588.4	1629.2	1734.8	1982.0	2276.2	2261.8	2000.6	1814.6
20°	1610.9	1605.7	1606.4	1605.7	1634.2	1718.0	1908.2	2266.4	2336.2	2056.8	1839.2
22.5°	1694.1	1685.4	1685.7	1667.1	1682.5	1747.5	1889.0	2240.0	2402.5	2105.9	1857.7
25°	1829.6	1813.8	1817.0	1769.7	1765.4	1813.5	1919.1	2219.6	2468.5	2145.2	1861.2
27.5°	2014.9	1997.1	1987.6	1917.1	1883.3	1907.2	1980.6	2226.7	2531.0	2179.3	1852.5
30°	2246.7	2225.0	2205.6	2105.6	2044.5	2035.8	2076.0	2273.0	2604.7	2215.1	1837.4
32.5°	2530.7	2505.4	2470.2	2337.6	2251.6	2205.6	2199.6	2355.6	2691.1	2260.7	1829.6
35°	2868.8	2835.8	2785.8	2614.3	2505.4	2411.3	2362.5	2474.6	2809.4	2329.5	1838.4
37.5°	3217.0	3179.8	3134.1	2929.9	2796.1	2657.4	2561.2	2636.0	2967.1	2422.9	1861.6
40°	3538.2	3496.4	3453.9	3272.1	3128.5	2961.4	2804.5	2840.3	3159.8	2534.5	1900.9
42.5°	3727.7	3696.9	3680.7	3582.4	3471.5	3301.9	3107.1	3082.5	3376.4	2663.1	1945.9
45°	3719.3	3706.7	3756.5	3797.2	3770.9	3676.9	3461.6	3350.3	3593.6	2774.3	1987.3
47.5°	3520.7	3529.1	3640.3	3869.2	3969.9	4019.1	3865.4	3613.3	3782.5	2857.5	2005.8
50°	2980.0	2987.1	3244.7	3738.3	4021.2	4298.1	4265.8	3869.9	3928.9	2908.4	2001.6
52.5°	2552.0	2556.7	2667.3	3350.0	3852.1	4438.6	4626.7	4111.8	4035.9	2922.5	1978.1
55°	1922.3	1938.1	2062.0	2628.3	3411.8	4327.3	4846.5	4361.1	4103.7	2923.8	1953.5
57.5°	1123.0	1140.2	1293.2	1784.0	2651.8	3939.4	4879.8	4582.2	4149.7	2912.6	1938.8
60°	550.1	557.5	624.1	937.7	1635.2	3192.1	4611.7	4689.3	4175.3	2906.7	1938.1
62.5°	370.7	369.6	372.5	462.7	805.6	2050.8	4052.8	4501.8	4161.6	2883.8	1931.1
65°	318.8	314.9	304.3	324.7	417.4	938.0	3131.3	3942.3	4057.4	2826.6	1883.0
67.5°	275.5	275.9	276.2	270.0	298.1	432.9	1913.6	3105.3	3683.1	2555.6	1697.6
70°	228.2	231.3	232.8	232.8	242.9	284.0	816.9	2128.4	2905.3	2003.8	1367.4
72.5°	207.8	201.1	201.8	198.3	198.3	216.3	328.9	1206.5	1830.3	1127.2	834.5
75°	169.5	173.7	174.5	172.0	163.9	165.0	195.2	506.2	783.2	467.6	412.5
77.5°	146.4	146.4	147.8	146.1	139.7	123.6	130.3	196.2	266.4	191.7	206.0
80°	117.6	117.3	123.2	126.7	116.8	91.2	83.2	108.4	118.3	84.3	107.1
82.5°	57.2	60.7	84.6	96.6	88.8	66.0	50.9	67.4	63.1	37.2	48.1
85°	33.3	31.6	37.9	53.7	50.9	36.5	24.6	35.1	33.0	19.0	19.3
87.5°	10.6	9.8	7.7	18.2	14.8	10.1	6.7	10.1	9.1	4.2	4.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5	1701.5
2.5°	1682.2	1640.8	1599.7	1562.1	1539.3	1524.6	1509.8	1493.3	1487.1	1477.5
5°	1665.3	1585.3	1514.0	1452.6	1396.8	1352.9	1308.7	1272.8	1256.8	1267.6
7.5°	1655.5	1539.7	1429.8	1317.1	1208.7	1122.0	1046.4	993.4	969.5	975.6
10°	1646.8	1488.1	1320.6	1142.7	986.8	879.3	802.2	761.8	746.7	749.8
12.5°	1638.7	1430.2	1189.0	954.9	789.1	718.2	696.1	696.5	699.3	701.4
15°	1637.2	1360.3	1041.9	790.6	682.4	677.8	701.7	716.8	724.9	727.3
17.5°	1635.2	1276.7	892.0	678.6	656.4	687.4	709.5	719.2	725.6	726.0
20°	1626.8	1170.8	753.7	625.2	650.9	677.5	691.2	698.9	704.2	705.9
22.5°	1600.7	1052.8	646.0	601.4	628.3	649.7	665.9	674.8	677.8	680.0
25°	1554.1	920.8	571.5	578.5	597.2	624.1	637.1	638.9	637.9	641.0
27.5°	1493.0	779.3	525.2	547.7	571.5	594.7	601.7	600.6	598.5	602.1
30°	1419.3	652.2	495.7	512.9	545.5	566.6	572.9	570.4	566.2	570.1
32.5°	1341.3	548.4	471.5	488.6	524.1	544.8	551.1	548.7	545.5	548.7
35°	1268.6	475.7	449.0	472.5	507.3	527.7	535.7	536.1	536.1	539.9
37.5°	1202.0	433.2	430.4	462.3	495.7	513.9	525.5	526.2	511.2	512.2
40°	1140.2	415.3	422.0	455.6	484.4	501.9	502.7	463.4	435.6	434.9
42.5°	1089.7	411.7	424.5	455.0	476.3	477.0	427.5	397.0	389.3	389.7
45°	1042.2	410.7	430.0	455.0	464.4	412.2	378.7	370.7	371.4	374.2
47.5°	989.2	406.5	431.1	448.6	430.0	366.5	356.7	353.1	351.8	352.5
50°	931.3	391.4	417.8	436.0	371.0	346.9	334.6	333.5	335.3	336.3
52.5°	870.2	366.8	394.9	413.2	344.0	329.6	315.9	318.4	326.2	328.6
55°	830.2	338.0	364.7	367.6	325.0	313.4	301.9	307.5	322.0	326.5
57.5°	819.7	307.5	330.4	327.2	300.8	299.4	292.4	297.4	315.6	322.3
60°	816.5	280.1	296.6	294.2	277.4	284.0	282.3	284.7	291.0	293.2
62.5°	791.9	258.4	266.4	262.9	256.2	267.8	272.0	266.8	271.7	274.2
65°	729.5	240.8	237.0	234.5	237.3	247.8	256.2	245.7	250.3	257.3
67.5°	626.3	217.0	206.4	209.2	218.0	223.7	234.5	222.5	226.4	238.3
70°	506.6	186.8	177.3	185.3	193.8	205.4	207.2	199.1	208.2	221.5
72.5°	358.4	156.2	149.5	166.0	168.8	184.0	180.1	176.2	188.9	193.4
75°	248.6	126.1	122.2	134.8	144.9	158.0	155.2	159.7	186.4	188.5
77.5°	157.2	98.0	95.5	103.5	117.6	132.0	136.5	188.5	318.4	331.1
80°	91.2	73.0	70.2	76.6	88.8	102.2	131.6	231.3	209.9	207.5
82.5°	50.9	50.2	46.7	48.5	59.3	73.7	186.0	162.9	132.3	136.5
85°	23.9	29.5	25.3	24.2	33.3	86.4	124.2	93.1	61.8	60.4
87.5°	6.4	5.6	5.6	6.4	14.0	74.4	49.5	39.7	23.5	22.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)