

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: P962577

Luminaire Tested: **NVN-SB2C-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2C-827-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13232.8 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

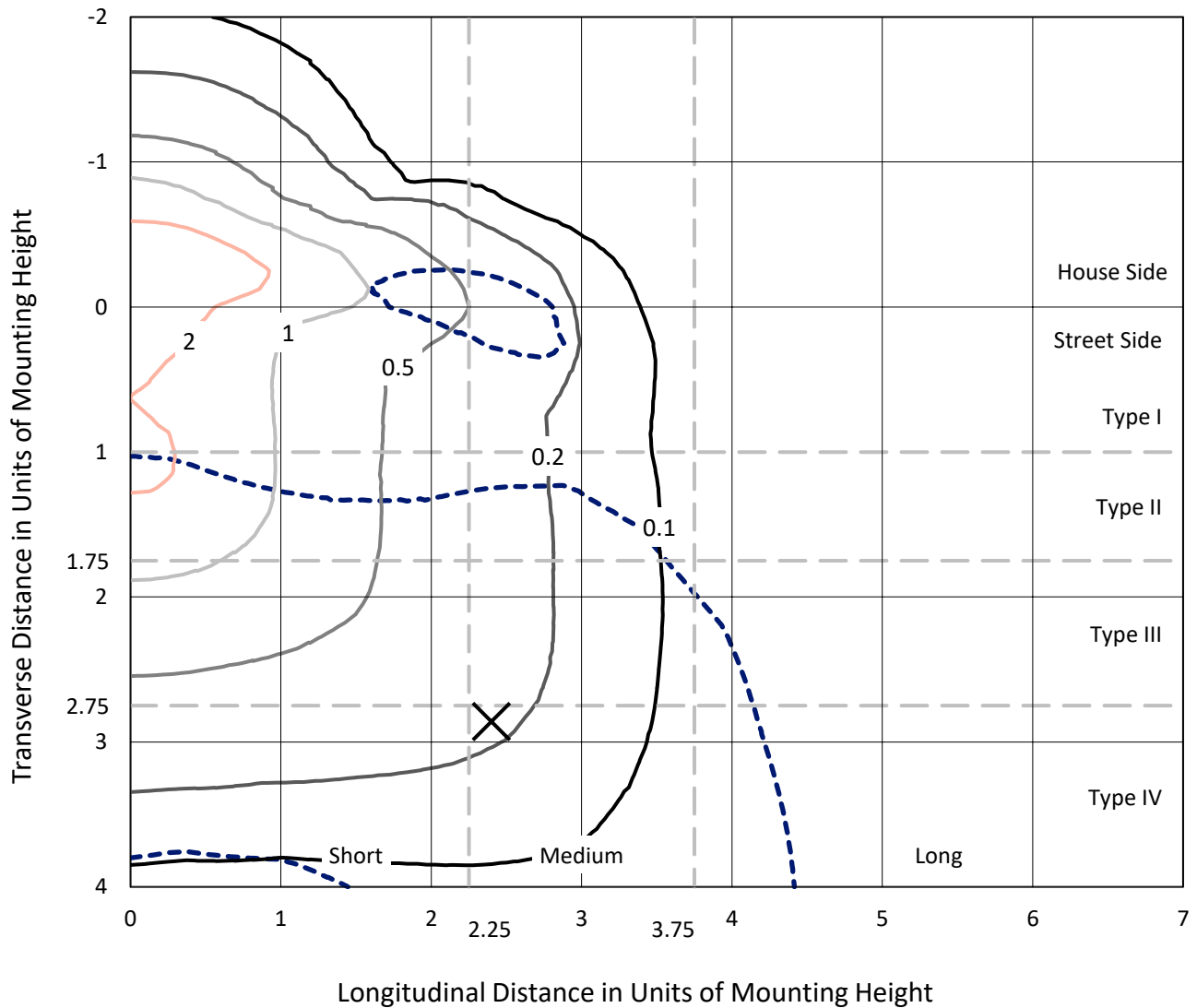
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

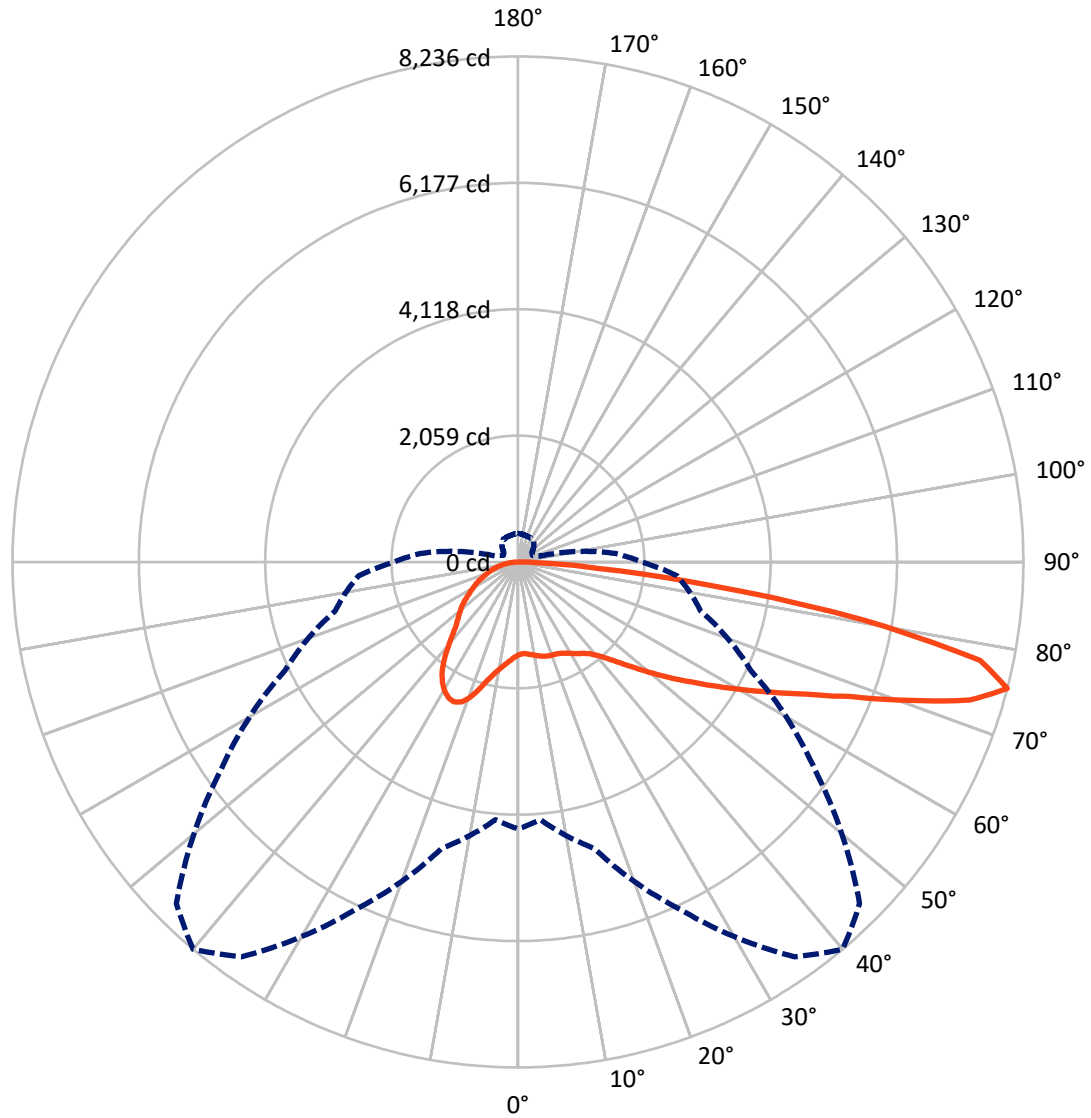
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4100.0	0.0	4100.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	9132.8	0.0	9132.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	13232.8	0.0	13232.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	1.1
10°-20°	507.1	3.8
20°-30°	926.0	7.0
30°-40°	1313.3	9.9
40°-50°	1773.3	13.4
50°-60°	2385.6	18.0
60°-70°	3027.9	22.9
70°-80°	2748.0	20.8
80°-90°	400.6	3.0
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°	13232.8	100.0
0°-180°	13232.8	100.0

Coefficient of Utilization



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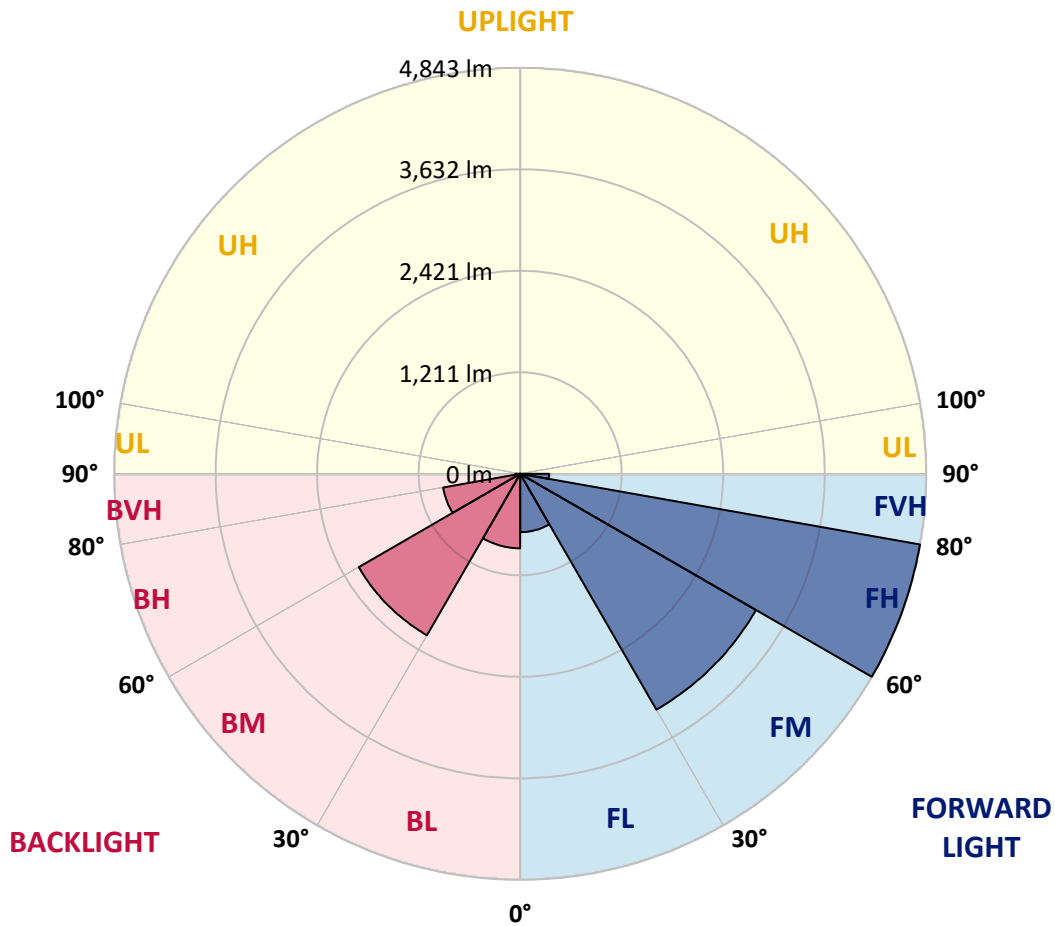
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	696.1	5.3			
FM (30°-60°)	3248.3	24.5			
FH (60°-80°)	4843.0	36.6			G2/5000
FVH (80°-90°)	345.4	2.6			G3/500
BL (0°-30°)	888.1	6.7	B2/1000		
BM (30°-60°)	2223.9	16.8	B2/2500		
BH (60°-80°)	932.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	55.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2
2.5°	1490.0	1498.4	1496.3	1493.5	1493.5	1494.2	1493.5	1498.4	1503.4	1508.3	1516.0
5°	1505.4	1513.9	1509.7	1506.1	1503.4	1502.6	1500.6	1499.9	1502.6	1509.0	1519.5
7.5°	1535.7	1544.1	1537.7	1531.5	1525.8	1523.0	1520.2	1516.0	1513.9	1517.4	1532.2
10°	1569.4	1577.8	1570.0	1558.8	1549.7	1546.2	1543.3	1539.1	1536.4	1538.4	1554.6
12.5°	1603.0	1611.4	1600.9	1585.5	1573.6	1571.4	1567.9	1566.5	1565.8	1565.1	1581.3
15°	1634.6	1641.6	1628.3	1610.1	1597.4	1593.9	1590.4	1592.5	1596.0	1600.2	1618.5
17.5°	1659.2	1666.1	1646.6	1622.7	1610.8	1609.4	1607.2	1614.3	1624.1	1634.6	1657.0
20°	1681.6	1688.7	1663.4	1631.1	1617.0	1617.0	1617.8	1632.5	1646.6	1661.9	1692.9
22.5°	1713.2	1718.8	1688.0	1643.7	1623.4	1624.7	1630.4	1645.1	1662.7	1683.8	1726.5
25°	1760.2	1764.4	1726.5	1667.6	1644.4	1648.6	1653.5	1660.6	1677.4	1702.0	1759.5
27.5°	1836.1	1839.6	1789.8	1709.7	1674.6	1681.6	1688.7	1683.8	1691.5	1712.5	1786.2
30°	1942.7	1944.8	1881.7	1775.7	1725.8	1729.4	1730.7	1710.4	1695.7	1712.5	1805.1
32.5°	2069.1	2068.3	1993.2	1855.7	1784.1	1780.6	1768.6	1728.7	1694.2	1709.0	1822.0
35°	2264.8	2257.2	2160.3	1968.0	1850.0	1828.3	1800.2	1749.0	1701.3	1705.5	1836.7
37.5°	2589.1	2565.3	2431.2	2151.9	1948.3	1892.9	1851.5	1782.0	1716.7	1704.1	1854.3
40°	2954.8	2924.6	2777.2	2403.8	2095.7	2006.5	1939.9	1829.0	1742.0	1710.4	1880.3
42.5°	3388.5	3345.7	3187.1	2700.7	2282.4	2153.2	2052.9	1888.7	1779.2	1730.7	1915.3
45°	3921.2	3864.4	3639.8	3035.5	2517.5	2345.6	2211.5	1979.2	1836.1	1770.1	1968.0
47.5°	4459.6	4473.6	4154.2	3418.7	2799.7	2582.8	2410.2	2115.4	1918.8	1833.2	2052.9
50°	5031.5	5041.4	4665.9	3843.3	3119.7	2850.9	2633.3	2267.7	2033.9	1923.1	2180.0
52.5°	5477.9	5479.3	5130.5	4287.6	3453.1	3145.7	2874.1	2441.8	2167.3	2042.4	2349.1
55°	5757.2	5753.7	5456.2	4708.0	3836.3	3455.2	3140.8	2639.7	2330.1	2182.7	2561.8
57.5°	5960.1	5949.5	5680.8	5069.4	4244.7	3820.9	3442.6	2864.3	2522.4	2349.8	2841.8
60°	6037.2	6031.0	5833.1	5381.8	4674.3	4225.2	3790.7	3115.5	2740.7	2547.0	3201.8
62.5°	6066.8	6078.7	5982.5	5684.2	5134.0	4672.9	4173.2	3415.9	2986.3	2770.2	3581.6
65°	6170.6	6192.4	6172.8	6080.1	5653.4	5197.2	4680.7	3773.1	3254.5	3009.5	3978.0
67.5°	6376.3	6398.0	6406.5	6553.8	6287.9	5850.6	5313.7	4218.1	3568.2	3258.0	4276.4
70°	6371.4	6365.0	6513.9	6930.7	7082.3	6755.3	6167.1	4765.5	3942.3	3464.3	4314.2
72.5°	5799.3	5748.8	6100.5	6926.5	7743.5	7700.0	7209.3	5471.6	4265.1	3489.6	3743.6
75°	4350.7	4216.0	4837.2	6242.2	7853.7	8236.2	7871.9	5909.5	4188.7	3083.2	2605.2
77.5°	1860.6	1725.2	2457.1	4621.0	7029.0	7699.3	7264.1	5155.8	3343.6	2038.8	1279.5
80°	487.1	486.4	742.5	2095.0	4780.3	5685.7	4988.1	3329.6	1910.4	728.5	353.0
82.5°	201.4	196.5	273.1	814.9	2335.8	3190.6	2603.8	1485.1	689.9	197.2	117.2
85°	75.1	74.4	132.6	281.5	824.0	1316.0	952.4	379.7	172.0	96.1	52.7
87.5°	21.0	20.4	28.8	97.6	200.7	304.6	162.9	62.4	48.4	37.9	15.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2	1513.2
2.5°	1518.1	1521.6	1528.0	1532.8	1539.1	1546.2	1555.9	1562.3	1568.7	1572.9	1570.0
5°	1524.4	1532.2	1548.3	1564.5	1583.3	1600.9	1621.2	1636.0	1647.9	1651.5	1652.8
7.5°	1538.4	1551.1	1578.5	1605.9	1636.0	1664.8	1694.2	1719.5	1739.8	1747.6	1748.3
10°	1563.0	1579.8	1618.5	1657.0	1697.1	1741.3	1779.2	1815.7	1844.5	1856.4	1857.1
12.5°	1593.9	1615.0	1665.5	1718.8	1774.3	1835.4	1884.5	1929.4	1965.1	1981.3	1981.3
15°	1633.8	1661.3	1725.8	1797.4	1878.8	1963.8	2026.2	2076.0	2116.1	2135.7	2134.4
17.5°	1677.4	1713.9	1795.3	1903.4	2020.0	2131.5	2204.5	2241.0	2282.4	2301.3	2300.6
20°	1719.5	1764.4	1881.0	2038.2	2193.3	2311.9	2370.8	2380.7	2383.4	2385.6	2391.2
22.5°	1763.0	1823.4	1988.3	2208.1	2374.3	2456.5	2464.9	2422.8	2363.9	2336.5	2344.2
25°	1810.8	1890.8	2128.7	2395.4	2530.1	2540.0	2475.4	2373.0	2261.4	2210.1	2217.8
27.5°	1857.1	1968.7	2297.1	2574.4	2642.4	2556.1	2417.2	2271.9	2137.1	2083.1	2089.4
30°	1903.4	2057.8	2483.2	2730.9	2693.7	2516.2	2325.2	2163.1	2027.7	1970.8	1977.1
32.5°	1950.5	2161.7	2697.2	2843.9	2684.6	2431.2	2210.8	2041.0	1921.7	1862.0	1869.7
35°	2003.8	2289.4	2900.0	2905.7	2623.5	2306.2	2059.9	1895.0	1791.1	1743.4	1753.9
37.5°	2073.3	2451.6	3079.0	2921.0	2516.8	2123.1	1872.6	1722.3	1636.7	1615.0	1630.4
40°	2159.6	2646.7	3215.8	2896.5	2358.9	1900.6	1667.6	1547.5	1499.2	1504.1	1520.9
42.5°	2271.9	2865.0	3312.0	2833.4	2139.3	1671.1	1487.9	1434.6	1457.8	1477.4	1495.7
45°	2417.9	3091.6	3371.6	2726.0	1890.8	1476.7	1381.9	1394.6	1412.1	1414.2	1428.2
47.5°	2604.5	3321.1	3411.0	2563.8	1637.4	1339.8	1314.6	1317.3	1313.8	1299.1	1310.4
50°	2837.6	3544.3	3446.0	2349.1	1422.0	1254.2	1220.5	1210.7	1162.2	1114.5	1120.8
52.5°	3102.9	3749.2	3460.8	2082.4	1254.2	1182.6	1127.9	1066.1	975.6	960.8	965.8
55°	3397.7	3938.8	3422.9	1754.6	1113.1	1090.7	1007.9	933.5	923.6	911.0	913.1
57.5°	3750.0	4143.0	3345.7	1389.0	968.5	983.3	902.6	911.0	893.5	873.8	870.3
60°	4135.3	4354.3	3210.3	1055.5	819.1	849.2	875.2	874.5	869.6	853.4	847.9
62.5°	4482.0	4493.2	2943.6	808.5	687.8	745.4	816.2	815.6	811.3	802.2	798.7
65°	4688.3	4472.2	2498.5	636.5	579.7	659.7	736.3	741.9	742.5	741.9	741.9
67.5°	4651.9	4225.9	1887.9	506.8	490.6	572.7	656.9	664.6	670.2	671.7	673.1
70°	4239.2	3684.7	1231.0	404.3	411.3	496.2	581.8	589.6	594.5	600.0	602.9
72.5°	3304.3	2709.2	704.7	327.1	341.8	430.2	507.5	516.6	519.4	529.9	534.1
75°	2013.6	1593.2	380.4	257.6	280.7	367.8	433.8	444.2	449.2	461.9	463.2
77.5°	957.4	689.9	216.9	200.7	226.0	300.4	366.3	378.3	365.0	372.0	366.3
80°	323.6	256.1	136.8	153.0	172.6	234.4	293.4	305.3	277.3	275.8	273.1
82.5°	113.0	103.8	87.0	101.8	111.6	167.8	221.8	237.2	206.3	205.6	195.8
85°	44.2	42.1	48.4	55.5	66.6	103.2	146.0	153.8	127.0	102.5	101.1
87.5°	9.1	9.8	11.9	12.6	20.4	35.8	52.7	64.6	51.2	43.6	40.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)