

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: P962594

Luminaire Tested: **NVN-SB2C-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2C-827-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13193.8 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

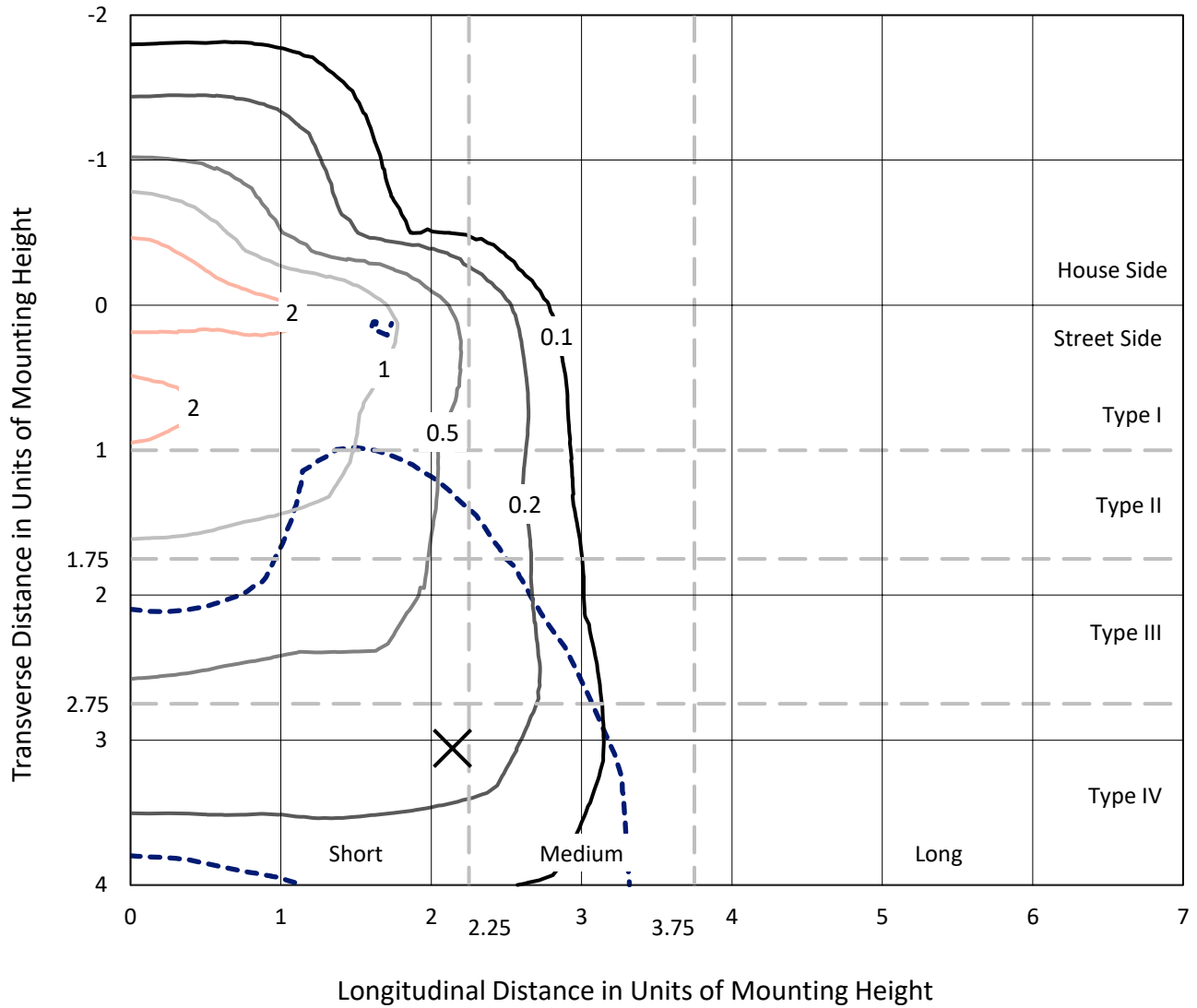
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

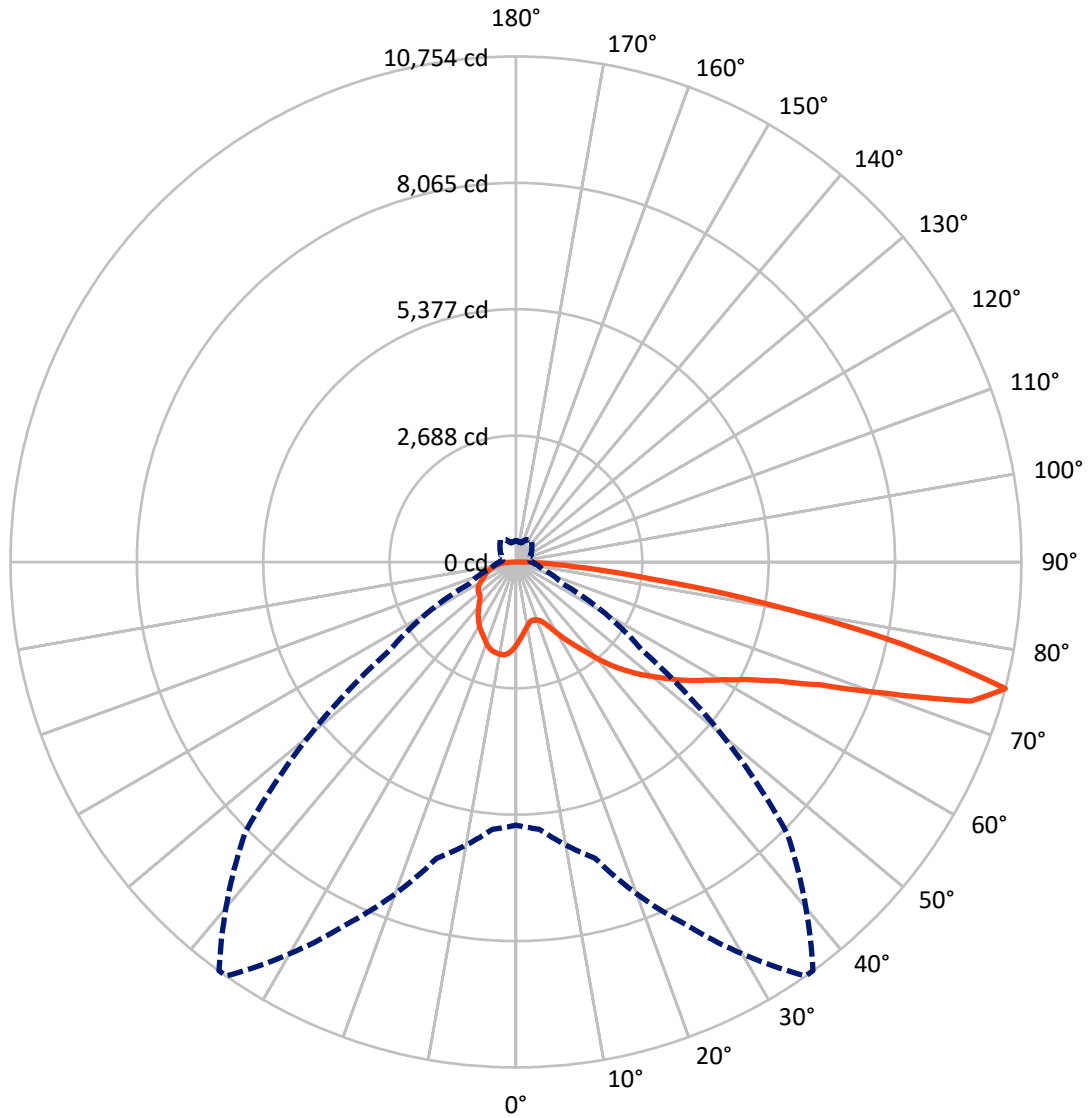
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3139.8	0.0	3139.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	10054.0	0.0	10054.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	13193.8	0.0	13193.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	1.3
10°-20°	480.2	3.6
20°-30°	806.3	6.1
30°-40°	1253.1	9.5
40°-50°	1859.9	14.1
50°-60°	2567.7	19.5
60°-70°	3115.3	23.6
70°-80°	2574.5	19.5
80°-90°	370.3	2.8
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°	13193.8	100.0
0°-180°	13193.8	100.0



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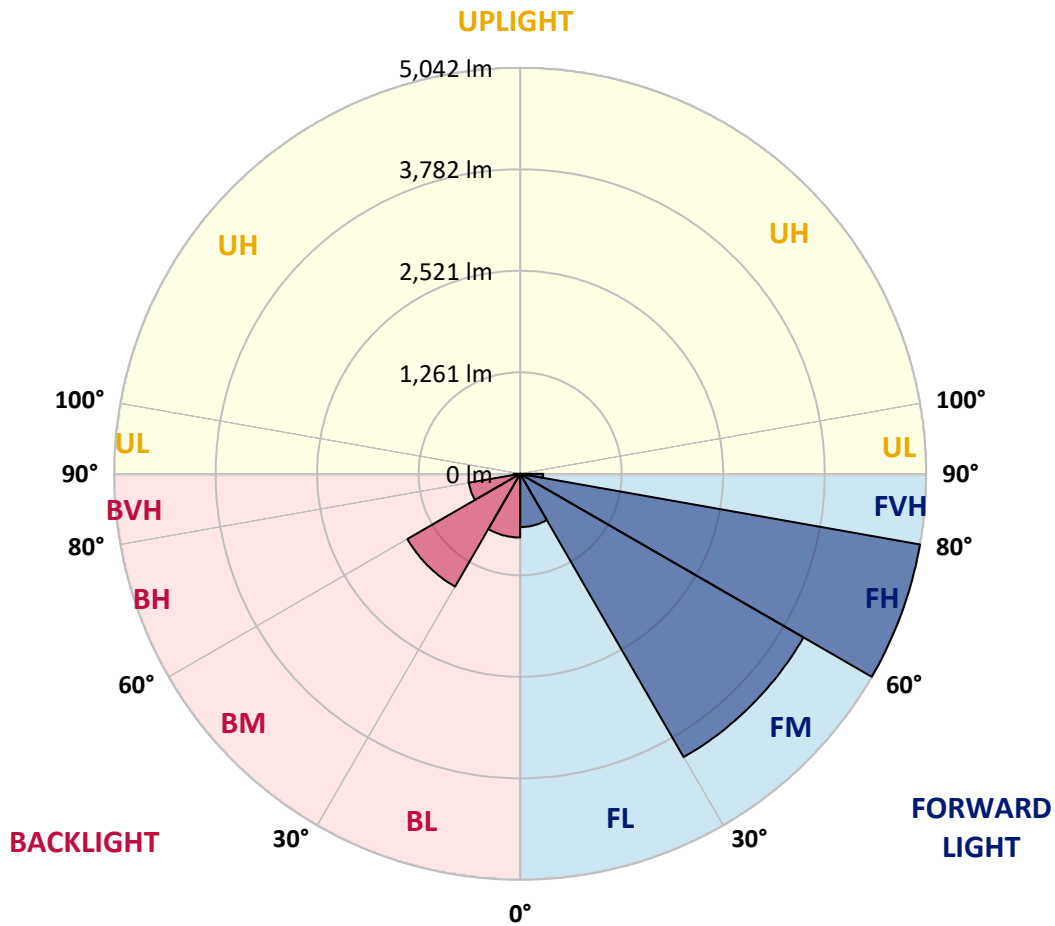
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.6	5.0			
FM (30°-60°)	4063.0	30.8			
FH (60°-80°)	5042.5	38.2			G3/7500
FVH (80°-90°)	286.9	2.2			G3/500
BL (0°-30°)	791.3	6.0	B2/1000		
BM (30°-60°)	1617.8	12.3	B2/2500		
BH (60°-80°)	647.3	4.9	B2/1000		G2/1000
BVH (80°-90°)	83.4	0.6			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2
2.5°	1621.2	1631.2	1635.5	1633.3	1644.0	1642.7	1657.6	1676.2	1701.8	1726.8	1763.2
5°	1496.4	1507.1	1516.4	1524.9	1545.6	1552.1	1575.5	1611.2	1658.3	1706.1	1766.0
7.5°	1380.2	1389.4	1403.6	1419.4	1454.3	1460.7	1500.0	1555.6	1621.2	1691.1	1773.9
10°	1285.2	1294.6	1309.5	1327.4	1370.8	1378.7	1428.6	1502.9	1588.4	1676.9	1782.4
12.5°	1244.7	1247.4	1256.0	1273.9	1311.7	1316.6	1371.6	1456.4	1556.4	1666.1	1795.3
15°	1242.5	1248.1	1248.9	1258.2	1289.6	1291.7	1342.3	1426.5	1536.4	1664.0	1814.6
17.5°	1263.9	1268.1	1261.8	1267.4	1293.9	1297.4	1337.3	1412.2	1529.9	1673.3	1847.4
20°	1320.9	1324.5	1305.2	1297.4	1316.6	1319.5	1358.7	1421.5	1536.4	1692.6	1892.3
22.5°	1442.2	1444.3	1397.3	1365.2	1366.6	1368.0	1402.2	1459.3	1561.3	1727.5	1949.3
25°	1631.2	1629.7	1554.9	1492.8	1457.1	1449.4	1472.1	1520.7	1603.4	1773.9	2022.7
27.5°	1852.3	1841.6	1766.7	1674.0	1596.2	1584.9	1579.8	1600.5	1663.3	1835.2	2112.6
30°	2102.0	2091.9	2011.4	1890.1	1782.4	1763.8	1716.8	1706.1	1752.4	1918.6	2237.5
32.5°	2375.8	2369.4	2273.1	2126.2	1982.1	1960.7	1881.6	1853.0	1889.4	2044.9	2411.5
35°	2605.5	2599.8	2520.0	2368.7	2192.6	2166.1	2085.6	2053.5	2072.0	2206.8	2639.1
37.5°	2813.0	2810.2	2741.8	2622.7	2440.7	2408.6	2318.0	2307.4	2303.8	2420.0	2915.1
40°	3005.6	2998.5	2927.2	2864.5	2729.6	2700.4	2620.5	2611.2	2584.1	2682.5	3227.4
42.5°	3218.9	3200.4	3096.9	3067.7	3031.3	3007.0	2959.3	2960.7	2900.7	2978.5	3558.4
45°	3393.0	3382.2	3276.0	3258.9	3298.0	3288.1	3329.4	3340.2	3223.9	3288.8	3902.2
47.5°	3579.8	3569.9	3480.0	3467.8	3574.1	3576.9	3723.2	3726.7	3539.1	3611.2	4246.7
50°	3810.2	3795.9	3706.8	3721.8	3840.9	3851.5	4119.1	4094.8	3829.4	3938.6	4588.3
52.5°	3962.1	3970.6	3951.4	3975.7	4138.2	4148.3	4508.5	4446.4	4116.9	4261.6	4923.6
55°	4074.1	4091.2	4151.1	4206.7	4452.1	4462.1	4875.8	4780.9	4355.1	4561.2	5238.9
57.5°	4218.2	4193.9	4305.9	4414.3	4750.3	4776.6	5233.1	5103.3	4566.3	4819.4	5454.9
60°	4425.0	4407.9	4494.9	4655.3	5084.1	5126.1	5611.2	5393.7	4721.0	5024.1	5497.0
62.5°	4844.4	4801.6	4815.1	4957.1	5504.9	5560.5	6037.7	5646.8	4798.0	5104.0	5271.7
65°	5471.3	5397.9	5329.4	5427.9	6097.6	6152.5	6519.1	5845.8	4769.5	4949.2	4673.2
67.5°	6260.9	6188.1	6104.0	6196.7	6970.6	7014.1	7113.3	5957.8	4544.8	4353.0	3615.5
70°	6912.1	6885.0	6985.6	7367.2	8365.0	8366.5	7875.0	5865.0	3929.3	3086.3	2091.9
72.5°	6825.8	6809.4	7339.3	8519.1	10122.5	10084.7	8596.1	5163.2	2646.9	1392.3	783.8
75°	5599.8	5706.0	6527.0	8498.4	10753.7	10748.7	8154.6	3282.4	1094.8	577.0	405.1
77.5°	3002.7	3171.1	4237.5	6274.4	8395.0	8521.2	5733.1	1148.3	470.1	369.5	280.3
80°	979.3	1126.3	1689.0	3194.6	5454.9	5431.4	2457.1	450.8	321.6	261.8	194.0
82.5°	415.8	433.0	754.6	1508.5	2799.5	2756.0	782.5	258.9	226.1	179.1	119.8
85°	162.7	181.8	333.1	697.5	1212.6	1186.1	282.5	128.4	144.8	117.0	71.3
87.5°	53.5	64.9	119.1	238.9	377.3	363.8	69.2	44.2	62.7	53.5	25.7
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°	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2
2.5°	1773.1	1784.5	1798.1	1818.0	1835.2	1849.5	1864.5	1873.7	1877.3	1887.9	1887.2
5°	1786.0	1811.0	1844.5	1877.3	1909.4	1928.6	1945.8	1954.3	1962.2	1967.9	1969.3
7.5°	1807.4	1839.5	1892.3	1935.1	1962.2	1977.8	1989.2	1986.4	1989.2	1990.7	1992.8
10°	1825.9	1870.8	1933.7	1974.3	1995.0	1995.7	1992.8	1982.9	1977.8	1978.6	1980.0
12.5°	1848.1	1898.0	1965.7	2000.0	2005.6	1989.9	1977.8	1960.7	1954.3	1951.5	1950.1
15°	1878.0	1935.1	2000.7	2013.5	1999.3	1979.3	1958.6	1930.8	1916.5	1905.1	1908.7
17.5°	1914.4	1977.1	2027.8	2018.5	1987.8	1955.0	1921.5	1879.4	1850.1	1838.0	1838.7
20°	1965.0	2021.4	2048.5	2007.8	1961.4	1911.5	1854.4	1803.1	1776.0	1763.8	1762.5
22.5°	2026.3	2080.5	2068.4	1989.2	1923.6	1843.8	1772.4	1734.6	1721.1	1712.5	1713.9
25°	2099.8	2146.1	2082.7	1962.2	1861.6	1753.9	1698.9	1686.8	1680.4	1674.0	1674.0
27.5°	2195.3	2220.4	2093.4	1922.2	1764.5	1658.3	1638.4	1640.5	1638.4	1627.6	1629.7
30°	2321.6	2316.6	2103.4	1857.3	1653.3	1572.0	1573.5	1582.7	1584.1	1577.0	1580.6
32.5°	2487.8	2437.1	2108.3	1773.1	1547.0	1496.4	1497.8	1507.8	1514.9	1502.9	1508.5
35°	2689.0	2577.7	2100.5	1667.6	1465.0	1424.3	1413.7	1416.6	1418.7	1407.2	1415.1
37.5°	2923.6	2735.3	2065.6	1550.6	1397.3	1353.7	1331.0	1311.7	1300.2	1289.6	1296.7
40°	3181.1	2907.2	2001.4	1436.5	1321.6	1278.9	1244.7	1208.3	1169.7	1155.5	1161.8
42.5°	3450.7	3084.1	1923.6	1327.4	1234.6	1199.7	1163.3	1110.5	1052.8	1023.6	1027.0
45°	3730.3	3265.2	1847.4	1219.6	1145.4	1130.5	1088.4	1024.9	962.2	925.1	922.2
47.5°	4004.2	3436.4	1735.3	1111.2	1062.0	1078.4	1045.6	987.2	917.3	858.7	852.3
50°	4265.9	3596.9	1552.1	1001.4	994.2	1062.7	1031.4	947.2	867.4	792.4	786.0
52.5°	4525.6	3726.7	1317.3	901.6	957.9	1058.4	1012.8	920.1	822.4	743.9	735.3
55°	4746.0	3793.7	1091.3	816.0	905.1	1022.1	990.7	888.0	758.9	675.5	668.3
57.5°	4871.5	3739.6	903.0	731.7	832.4	962.2	952.9	819.5	683.3	619.1	610.6
60°	4817.3	3519.8	748.9	658.4	763.2	897.3	887.2	751.7	625.6	564.9	556.4
62.5°	4518.4	3101.2	627.0	594.1	700.4	831.0	821.6	699.7	581.3	522.9	513.5
65°	3916.4	2522.7	532.1	540.7	636.9	751.0	764.6	656.2	546.3	489.3	480.0
67.5°	2987.1	1827.4	457.9	494.3	574.9	672.6	711.9	624.8	517.1	462.9	454.4
70°	1702.5	1037.8	395.1	449.4	520.0	599.8	671.2	599.8	485.7	440.7	435.1
72.5°	645.4	476.4	341.6	404.4	467.2	538.5	626.3	560.6	449.4	415.8	410.1
75°	344.5	290.3	287.4	351.7	406.5	478.6	569.9	522.1	422.2	439.3	453.7
77.5°	234.6	205.4	240.4	301.0	340.2	412.3	509.9	463.6	365.9	364.5	335.9
80°	162.7	145.5	195.5	242.5	263.2	346.7	445.1	398.0	298.2	278.2	266.1
82.5°	97.7	94.8	146.3	181.1	186.1	267.4	368.8	333.8	244.0	212.6	214.0
85°	53.5	56.4	93.5	106.3	108.4	186.9	288.8	258.2	187.6	157.6	159.1
87.5°	15.0	19.3	34.2	42.1	52.1	97.0	171.9	153.3	94.2	65.6	65.6
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)