

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: P962627

Luminaire Tested: **NVN-SB2C-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2C-830-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13766.8 lumens
Efficiency: N/A
Efficacy: 136.4 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

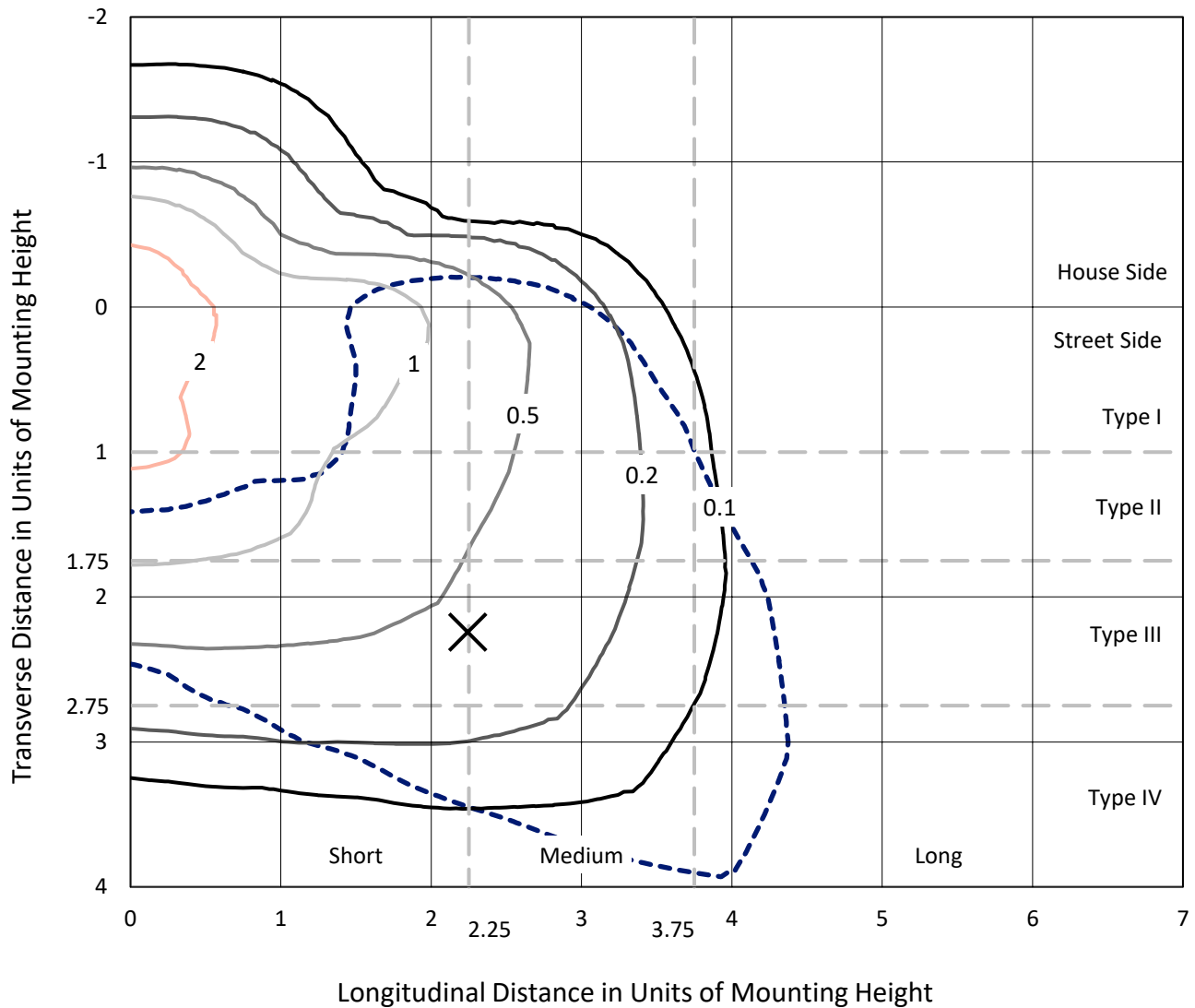


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

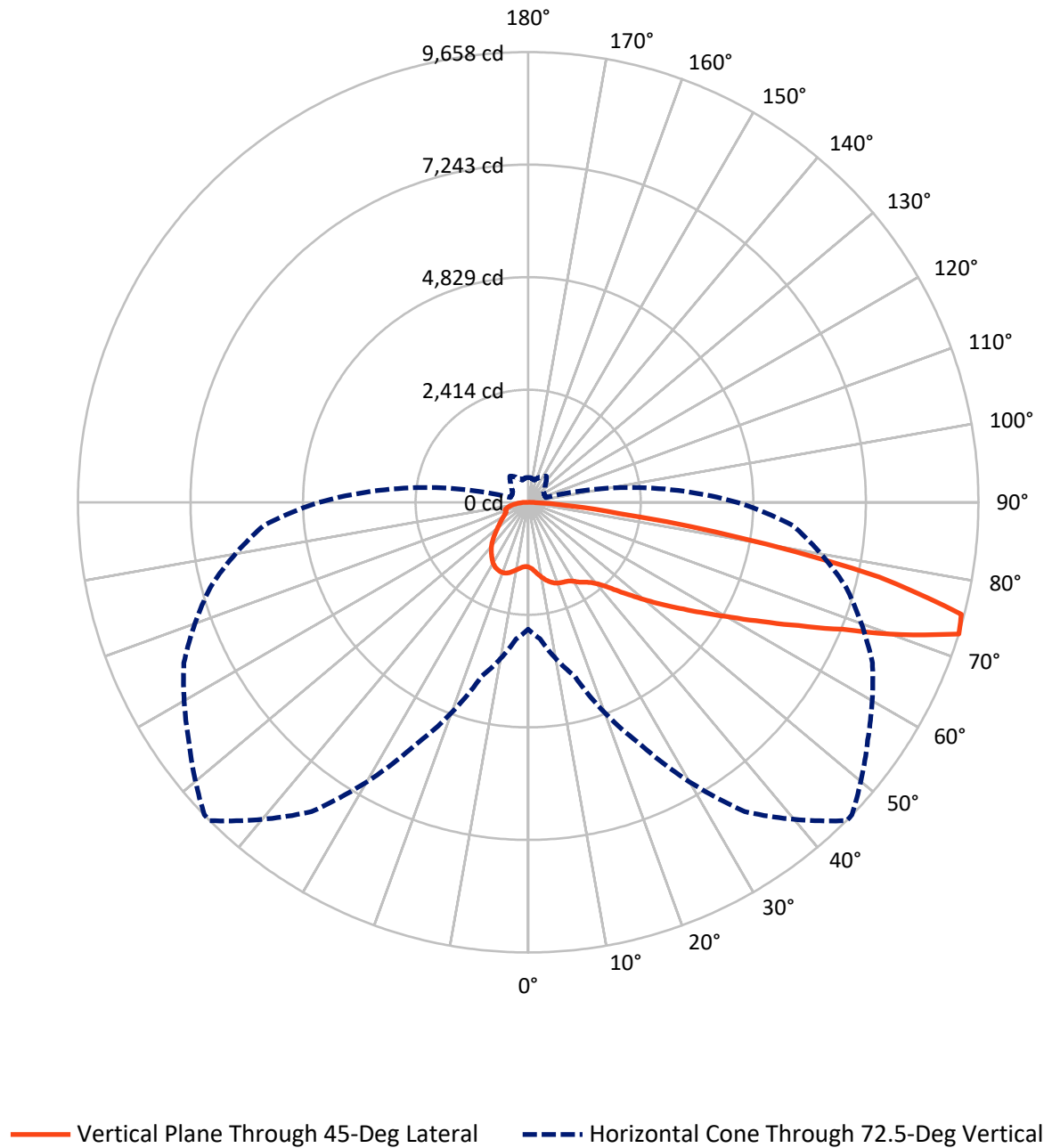


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3112.2	0.0	3112.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10654.6	0.0	10654.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	13766.8	0.0	13766.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	1.0
10°-20°	471.3	3.4
20°-30°	819.8	6.0
30°-40°	1175.3	8.5
40°-50°	1654.8	12.0
50°-60°	2534.7	18.4
60°-70°	3672.0	26.7
70°-80°	2932.3	21.3
80°-90°	365.2	2.7
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°	13766.8	100.0
0°-180°	13766.8	100.0

Coefficient of Utilization



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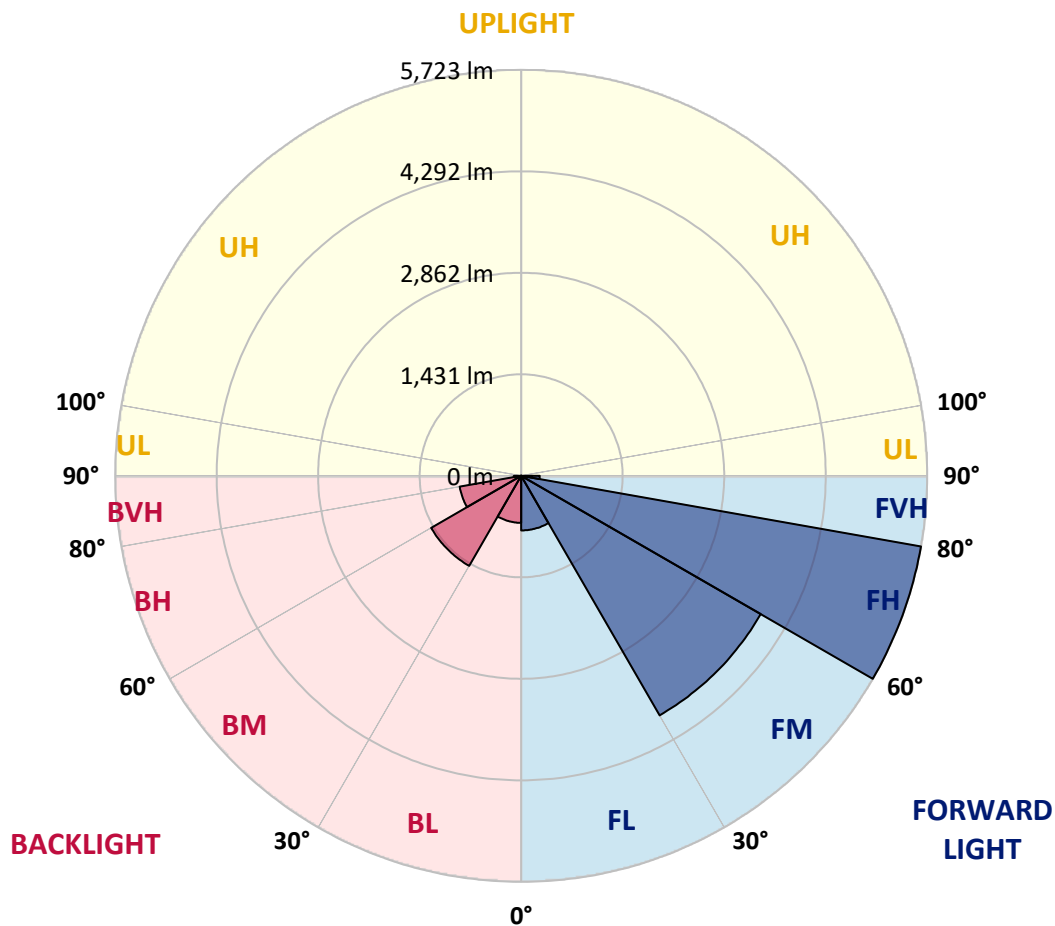
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	769.9	5.6			
FM	(30°-60°)	3899.5	28.3			
FH	(60°-80°)	5723.3	41.6			G3/7500
FVH	(80°-90°)	262.0	1.9			G3/500
BL	(0°-30°)	662.6	4.8	B2/1000		
BM	(30°-60°)	1465.4	10.6	B2/2500		
BH	(60°-80°)	881.0	6.4	B2/1000		G2/1000
BVH	(80°-90°)	103.2	0.7			G2/225
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°	45°	46°	55°	65°	75°	85°
0°	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8
2.5°	1443.2	1452.6	1443.9	1435.9	1432.3	1422.9	1422.2	1416.3	1412.8	1402.6	1399.6
5°	1544.0	1556.4	1541.8	1525.9	1511.4	1488.2	1485.2	1468.6	1449.8	1427.9	1415.6
7.5°	1657.8	1668.7	1652.1	1628.1	1602.7	1564.3	1563.5	1533.1	1503.4	1466.4	1445.4
10°	1757.3	1771.7	1749.3	1716.6	1684.7	1641.1	1636.1	1601.3	1563.5	1515.7	1483.8
12.5°	1845.0	1855.1	1833.3	1793.4	1756.4	1713.0	1706.4	1668.0	1626.0	1571.5	1530.9
15°	1914.6	1927.6	1898.6	1855.9	1816.7	1773.9	1768.1	1733.3	1691.2	1634.0	1581.7
17.5°	1960.3	1971.2	1941.5	1893.6	1855.9	1820.3	1816.0	1787.0	1750.0	1692.0	1636.1
20°	1977.6	1989.3	1958.1	1909.5	1874.7	1847.2	1845.0	1823.9	1798.6	1745.6	1689.0
22.5°	1995.1	2005.9	1965.3	1914.6	1884.2	1866.7	1866.0	1852.2	1842.0	1798.6	1743.4
25°	2065.5	2068.3	2013.9	1940.7	1897.2	1881.9	1881.2	1880.5	1884.9	1850.7	1802.2
27.5°	2126.4	2125.6	2079.2	2010.3	1942.9	1911.0	1910.2	1917.5	1931.3	1903.0	1863.1
30°	2215.5	2207.5	2152.5	2080.6	2019.0	1969.7	1965.3	1958.8	1969.7	1947.2	1924.0
32.5°	2404.9	2379.4	2290.3	2162.6	2082.1	2044.4	2038.6	1998.0	2002.3	1988.6	1976.9
35°	2676.1	2642.8	2523.8	2317.8	2160.4	2106.8	2103.9	2052.4	2043.6	2031.3	2035.6
37.5°	2998.8	2957.4	2819.0	2542.6	2295.3	2179.3	2174.9	2128.5	2092.9	2079.9	2104.6
40°	3322.9	3270.8	3156.2	2816.8	2494.0	2300.4	2286.7	2216.3	2175.7	2153.9	2206.1
42.5°	3637.7	3594.2	3496.3	3124.3	2739.2	2477.3	2446.9	2326.5	2296.1	2275.7	2370.0
45°	3916.2	3877.1	3805.2	3452.8	3026.3	2718.1	2688.4	2491.9	2482.4	2482.4	2618.8
47.5°	4142.4	4133.7	4057.6	3787.8	3365.1	2992.3	2940.7	2721.8	2747.1	2786.3	2972.0
50°	4393.4	4369.5	4288.2	4117.8	3763.2	3306.2	3264.2	3003.9	3098.9	3206.2	3482.5
52.5°	4624.0	4637.1	4546.4	4461.5	4212.9	3656.6	3582.6	3336.8	3542.0	3719.6	4080.8
55°	4861.2	4861.9	4836.5	4824.9	4684.2	4043.8	3962.6	3737.0	4063.4	4283.9	4778.4
57.5°	5083.8	5085.2	5123.0	5225.2	5231.0	4490.5	4398.5	4228.7	4642.8	4867.7	5497.9
60°	5282.5	5292.7	5395.6	5634.9	5711.8	5002.6	4915.6	4809.7	5242.0	5468.2	6254.3
62.5°	5349.3	5386.3	5615.4	5955.6	6186.9	5630.6	5545.0	5481.9	5871.4	6081.7	6886.7
65°	5236.1	5321.0	5764.1	6220.2	6675.6	6376.8	6292.1	6223.1	6525.6	6723.5	7405.9
67.5°	4958.3	5067.8	5755.4	6498.0	7268.9	7274.7	7195.6	7034.0	7226.9	7303.0	7575.0
70°	4226.6	4390.5	5248.4	6601.7	7949.9	8502.5	8426.3	8010.1	7926.6	7558.2	7099.2
72.5°	2723.2	2943.7	3864.7	5748.1	8101.5	9657.8	9653.4	8891.3	8147.8	7062.2	5693.7
75°	993.5	1128.4	1795.7	3608.0	6800.4	9599.0	9627.3	8740.4	7437.9	5455.2	3547.0
77.5°	361.9	396.0	586.0	1386.6	4182.3	7701.8	7760.6	6987.5	5294.1	2737.7	1405.5
80°	190.0	208.9	300.2	538.1	1792.0	4574.0	4666.1	4152.6	2488.2	824.6	421.4
82.5°	105.2	113.9	168.2	292.2	807.2	1955.9	2011.0	1640.4	875.4	349.5	174.0
85°	56.6	60.2	79.0	159.6	394.5	678.0	693.3	490.3	348.8	205.2	84.2
87.5°	16.7	20.3	26.1	50.7	154.5	152.3	155.9	97.2	137.8	103.7	27.6
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°	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8
2.5°	1395.3	1393.2	1385.2	1381.6	1377.2	1376.5	1380.1	1380.8	1381.6	1382.3	1385.2
5°	1408.4	1401.2	1393.9	1389.5	1390.9	1391.7	1398.9	1404.0	1407.6	1410.6	1412.0
7.5°	1433.8	1427.9	1415.6	1414.9	1417.1	1423.6	1433.1	1444.6	1451.2	1456.2	1457.7
10°	1471.5	1460.6	1446.1	1448.2	1452.6	1462.1	1481.6	1491.1	1501.9	1511.4	1509.2
12.5°	1509.9	1500.5	1483.8	1485.2	1492.5	1509.2	1528.1	1539.7	1546.9	1554.1	1557.1
15°	1559.9	1543.2	1525.1	1525.1	1538.2	1556.4	1565.1	1574.5	1578.8	1586.8	1589.7
17.5°	1611.4	1589.7	1565.8	1564.3	1580.2	1589.0	1594.1	1595.5	1596.9	1605.7	1608.5
20°	1663.0	1639.0	1604.9	1602.0	1605.7	1604.2	1603.5	1602.0	1604.2	1615.1	1619.4
22.5°	1713.7	1686.1	1639.0	1626.0	1615.8	1602.0	1601.3	1600.5	1602.0	1612.9	1620.1
25°	1773.1	1739.8	1676.7	1637.5	1603.5	1584.6	1586.8	1587.5	1589.0	1597.7	1609.2
27.5°	1837.7	1800.7	1711.5	1634.0	1572.2	1559.2	1555.6	1557.8	1562.8	1576.7	1590.4
30°	1902.3	1858.7	1743.4	1619.4	1533.1	1514.9	1503.4	1508.5	1524.4	1538.2	1553.4
32.5°	1961.0	1917.5	1768.8	1587.5	1483.1	1454.8	1439.6	1446.1	1462.1	1467.1	1485.2
35°	2029.9	1980.6	1779.7	1536.8	1428.6	1385.2	1364.9	1355.5	1363.5	1358.3	1374.3
37.5°	2106.8	2055.2	1778.3	1470.1	1364.9	1314.9	1286.6	1251.0	1234.3	1216.9	1227.8
40°	2220.7	2146.7	1760.8	1389.5	1285.9	1240.1	1189.4	1129.1	1091.4	1057.4	1059.5
42.5°	2375.8	2273.6	1729.0	1301.0	1196.6	1153.8	1085.0	1014.5	955.1	898.5	893.5
45°	2607.2	2439.6	1689.0	1206.7	1100.1	1058.1	983.4	904.4	836.9	764.3	755.6
47.5°	2940.7	2663.1	1651.4	1099.4	998.7	960.2	892.8	819.5	739.7	669.4	661.4
50°	3399.1	2983.6	1616.5	995.0	898.5	869.5	815.9	741.2	660.7	604.1	600.4
52.5°	3982.2	3419.4	1602.0	894.2	805.0	794.1	751.3	681.7	605.6	557.7	554.1
55°	4651.6	3940.8	1602.0	797.8	723.0	726.6	696.9	632.4	566.4	523.6	519.3
57.5°	5334.7	4468.8	1573.0	708.6	653.4	668.6	649.7	593.3	533.7	489.5	482.3
60°	5964.3	4911.2	1455.5	627.3	591.7	615.7	603.4	554.8	482.3	445.3	439.5
62.5°	6448.0	5160.7	1229.3	562.7	541.0	568.6	562.0	504.0	472.8	457.7	452.5
65°	6690.2	5120.1	939.9	505.5	498.3	541.0	527.3	525.1	500.4	483.0	477.2
67.5°	6541.5	4770.6	681.7	463.4	473.6	515.7	568.6	577.3	531.6	497.5	491.7
70°	5889.5	4138.1	507.7	423.5	442.4	516.4	648.3	604.1	521.4	481.5	475.0
72.5°	4480.4	3085.9	393.8	381.5	401.8	520.0	683.9	591.7	492.4	532.3	528.0
75°	2562.2	1694.1	316.2	329.9	351.0	485.8	665.7	559.9	470.0	488.8	488.8
77.5°	976.8	651.3	261.1	279.2	282.1	424.2	636.7	557.7	447.4	436.5	398.1
80°	338.7	254.5	216.1	221.9	218.3	377.1	610.6	485.1	366.2	327.8	316.9
82.5°	138.5	126.9	171.2	163.9	155.2	292.9	493.1	396.7	299.5	264.7	261.8
85°	60.2	80.5	113.2	99.3	89.9	203.1	395.2	335.8	253.1	218.3	217.6
87.5°	12.3	30.4	47.9	45.0	46.4	135.6	280.6	238.6	179.2	134.2	105.2
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)