

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: LUMARK

Report Number: P962503

Luminaire Tested: **NAV-SB2C-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962503
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: LUMARK
Catalog Number: NAV-SB2C-740-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16209.3 lumens
Efficiency: N/A
Efficacy: 160.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - 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



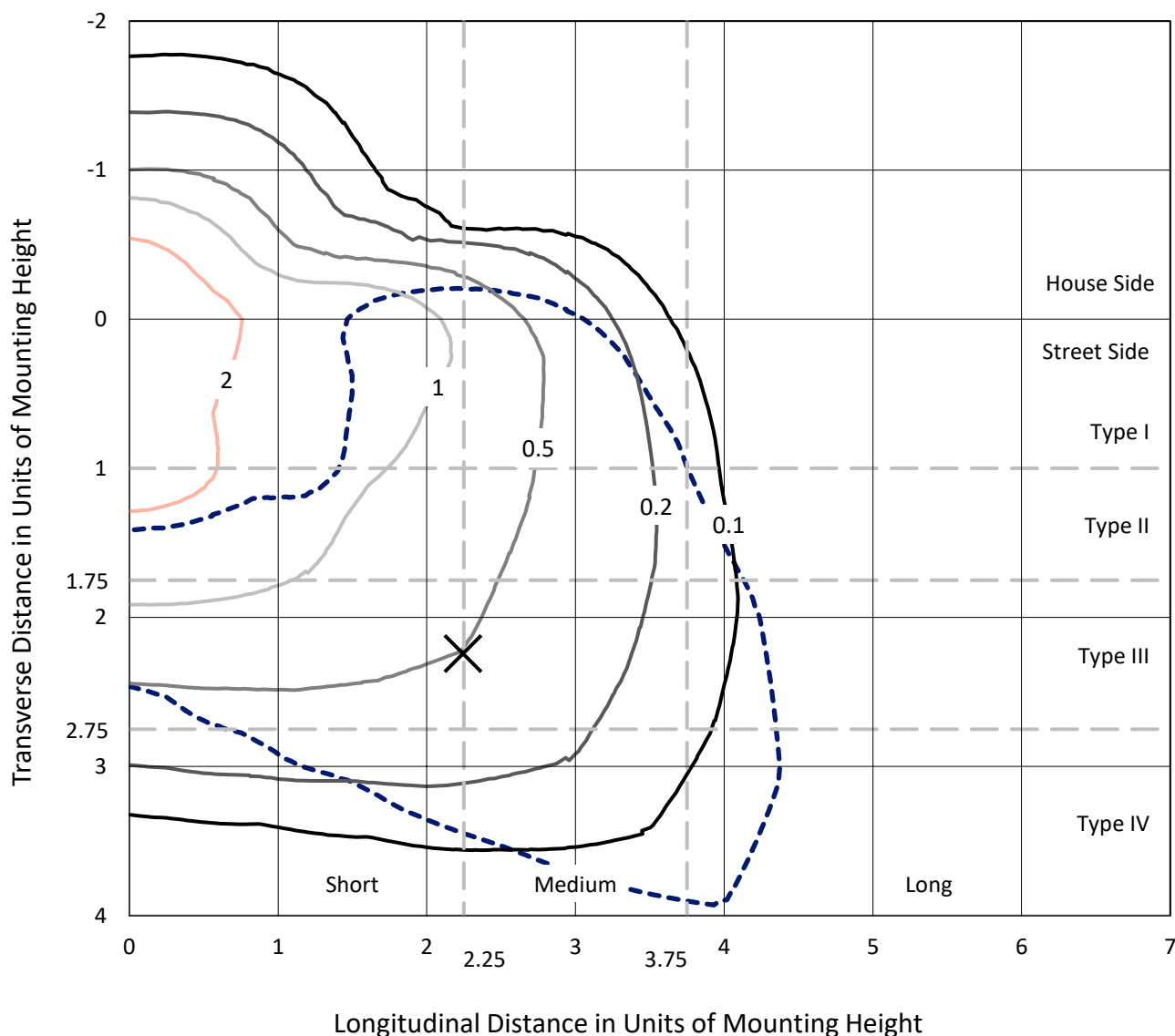
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

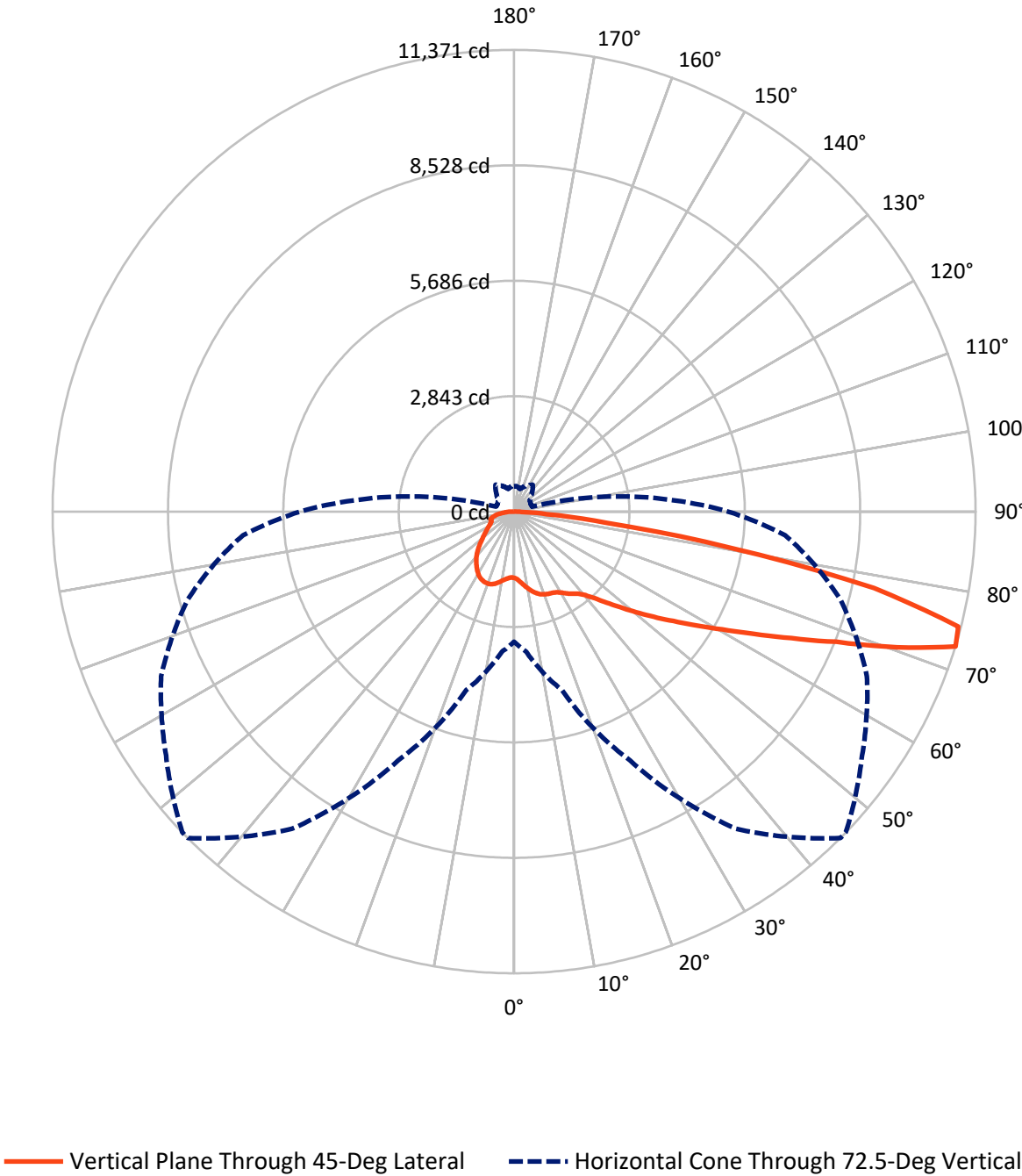


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc

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	3664.4	0.0	3664.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	12545.0	0.0	12545.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	16209.3	0.0	16209.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	1.0
10°-20°	554.9	3.4
20°-30°	965.3	6.0
30°-40°	1383.8	8.5
40°-50°	1948.5	12.0
50°-60°	2984.5	18.4
60°-70°	4323.4	26.7
70°-80°	3452.5	21.3
80°-90°	430.0	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°	16209.3	100.0
0°-180°	16209.3	100.0

Coefficient of Utilization



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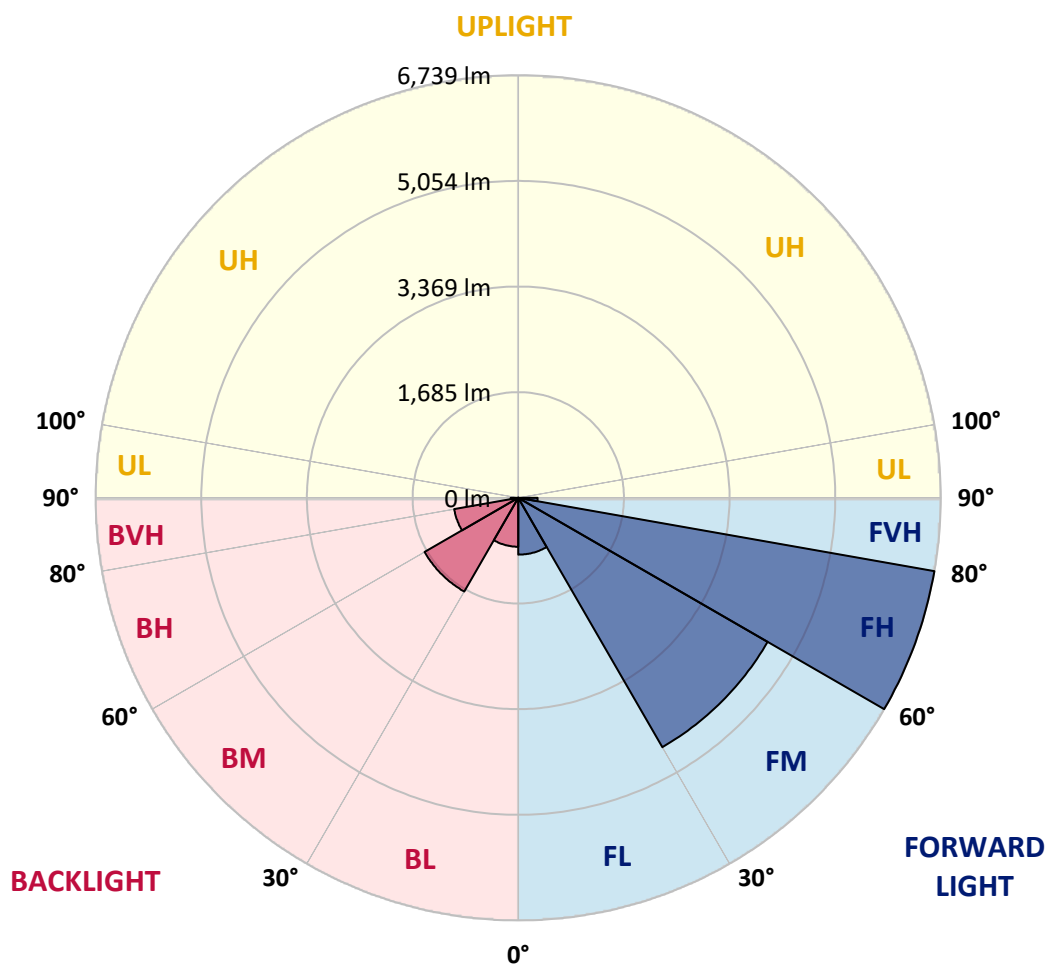
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	906.5	5.6			
FM	(30°-60°)	4591.3	28.3			
FH	(60°-80°)	6738.7	41.6			G3/7500
FVH	(80°-90°)	308.5	1.9			G3/500
BL	(0°-30°)	780.2	4.8	B2/1000		
BM	(30°-60°)	1725.4	10.6	B2/2500		
BH	(60°-80°)	1037.3	6.4	B3/2500		G3/2500
BVH	(80°-90°)	121.5	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2
2.5°	1699.2	1710.3	1700.1	1690.7	1686.4	1675.4	1674.4	1667.7	1663.4	1651.5	1648.0
5°	1817.9	1832.5	1815.4	1796.6	1779.5	1752.2	1748.8	1729.2	1706.9	1681.3	1666.8
7.5°	1952.0	1964.8	1945.1	1917.0	1887.1	1841.8	1841.0	1805.1	1770.1	1726.6	1701.8
10°	2069.0	2086.1	2059.6	2021.2	1983.6	1932.3	1926.4	1885.4	1841.0	1784.6	1747.1
12.5°	2172.3	2184.3	2158.6	2111.7	2068.1	2016.9	2009.2	1964.0	1914.4	1850.4	1802.6
15°	2254.3	2269.7	2235.5	2185.1	2139.0	2088.6	2081.8	2040.8	1991.3	1923.8	1862.3
17.5°	2308.1	2320.9	2285.9	2229.5	2185.1	2143.3	2138.1	2104.0	2060.5	1992.1	1926.4
20°	2328.6	2342.2	2305.5	2248.3	2207.3	2174.8	2172.3	2147.6	2117.6	2055.3	1988.7
22.5°	2349.1	2361.9	2314.0	2254.3	2218.4	2197.9	2197.1	2180.9	2168.9	2117.6	2052.8
25°	2431.9	2435.3	2371.2	2285.0	2233.8	2215.8	2215.0	2214.1	2219.2	2179.1	2122.0
27.5°	2503.7	2502.7	2448.1	2367.0	2287.6	2250.0	2249.2	2257.7	2274.0	2240.6	2193.7
30°	2608.6	2599.3	2534.3	2449.9	2377.3	2319.2	2314.0	2306.4	2319.2	2292.7	2265.4
32.5°	2831.6	2801.6	2696.6	2546.3	2451.5	2407.1	2400.3	2352.5	2357.6	2341.4	2327.7
35°	3150.8	3111.6	2971.6	2729.1	2543.7	2480.6	2477.1	2416.5	2406.3	2391.7	2396.9
37.5°	3530.8	3482.2	3319.1	2993.7	2702.6	2566.0	2560.9	2506.2	2464.3	2448.9	2478.0
40°	3912.5	3851.0	3716.1	3316.5	2936.5	2708.6	2692.4	2609.5	2561.7	2536.1	2597.6
42.5°	4283.2	4231.9	4116.6	3678.6	3225.2	2916.9	2881.1	2739.3	2703.4	2679.6	2790.6
45°	4611.1	4564.9	4480.4	4065.4	3563.3	3200.4	3165.4	2934.0	2922.9	2922.9	3083.4
47.5°	4877.5	4867.2	4777.5	4459.9	3962.0	3523.1	3462.6	3204.7	3234.6	3280.6	3499.2
50°	5172.9	5144.7	5049.0	4848.5	4430.9	3893.0	3843.3	3536.9	3648.7	3775.1	4100.4
52.5°	5444.4	5459.8	5353.1	5253.1	4960.3	4305.3	4218.3	3928.7	4170.4	4379.6	4804.9
55°	5723.7	5724.5	5694.6	5681.0	5515.3	4761.3	4665.7	4400.1	4784.4	5043.9	5626.3
57.5°	5985.8	5987.5	6031.9	6152.4	6159.1	5287.4	5178.9	4979.0	5466.6	5731.4	6473.4
60°	6219.8	6231.7	6353.0	6634.7	6725.2	5890.2	5787.7	5663.0	6171.9	6438.3	7364.0
62.5°	6298.3	6341.9	6611.7	7012.2	7284.6	6629.6	6528.8	6454.6	6913.1	7160.8	8108.6
65°	6165.1	6265.0	6786.7	7323.8	7860.1	7508.3	7408.4	7327.3	7683.3	7916.5	8720.0
67.5°	5838.1	5967.0	6776.5	7650.9	8558.5	8565.4	8472.3	8281.9	8509.0	8598.7	8918.9
70°	4976.5	5169.5	6179.6	7773.0	9360.4	10011.1	9921.4	9431.2	9333.0	8899.3	8358.8
72.5°	3206.4	3465.9	4550.4	6768.0	9538.9	11371.3	11366.2	10468.7	9593.5	8315.2	6703.9
75°	1169.8	1328.7	2114.3	4248.1	8007.0	11302.2	11335.5	10291.1	8757.5	6423.0	4176.4
77.5°	426.1	466.3	689.9	1632.6	4924.4	9068.4	9137.6	8227.3	6233.4	3223.4	1654.9
80°	223.8	245.9	353.5	633.6	2110.0	5385.6	5494.0	4889.4	2929.8	970.9	496.1
82.5°	123.8	134.1	198.1	344.1	950.4	2303.0	2367.9	1931.5	1030.6	411.5	204.9
85°	66.6	70.8	93.1	187.9	464.5	798.4	816.3	577.3	410.7	241.7	99.0
87.5°	19.7	23.9	30.7	59.8	181.8	179.3	183.6	114.4	162.3	122.1	32.5
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°	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2
2.5°	1642.9	1640.3	1631.0	1626.7	1621.6	1620.7	1624.9	1625.9	1626.7	1627.5	1631.0
5°	1658.2	1649.7	1641.2	1636.1	1637.7	1638.7	1647.2	1653.1	1657.4	1660.8	1662.6
7.5°	1688.2	1681.3	1666.8	1665.9	1668.5	1676.2	1687.3	1701.0	1708.7	1714.6	1716.4
10°	1732.6	1719.7	1702.6	1705.2	1710.3	1721.5	1744.6	1755.6	1768.4	1779.5	1776.9
12.5°	1777.8	1766.7	1747.1	1748.8	1757.4	1776.9	1799.2	1812.8	1821.3	1829.9	1833.3
15°	1836.7	1817.1	1795.7	1795.7	1811.1	1832.5	1842.7	1853.8	1858.9	1868.4	1871.8
17.5°	1897.4	1871.8	1843.6	1841.8	1860.7	1870.9	1876.9	1878.5	1880.3	1890.5	1893.9
20°	1958.0	1929.8	1889.7	1886.2	1890.5	1888.8	1887.9	1886.2	1888.8	1901.6	1906.7
22.5°	2017.7	1985.3	1929.8	1914.4	1902.5	1886.2	1885.4	1884.6	1886.2	1899.0	1907.6
25°	2087.8	2048.5	1974.3	1928.1	1887.9	1865.8	1868.4	1869.2	1870.9	1881.1	1894.8
27.5°	2163.8	2120.2	2015.2	1923.8	1851.3	1835.9	1831.6	1834.1	1840.2	1856.4	1872.6
30°	2239.7	2188.6	2052.8	1906.7	1805.1	1783.8	1770.1	1776.1	1794.9	1811.1	1829.0
32.5°	2308.9	2257.7	2082.7	1869.2	1746.2	1712.9	1694.9	1702.6	1721.5	1727.4	1748.8
35°	2390.1	2332.0	2095.4	1809.4	1682.1	1631.0	1607.0	1595.9	1605.4	1599.3	1618.2
37.5°	2480.6	2419.9	2093.8	1730.8	1607.0	1548.2	1514.8	1472.9	1453.3	1432.8	1445.7
40°	2614.7	2527.5	2073.3	1636.1	1513.9	1460.1	1400.4	1329.5	1285.1	1245.0	1247.5
42.5°	2797.3	2677.0	2035.6	1531.9	1409.0	1358.5	1277.5	1194.6	1124.6	1058.0	1052.0
45°	3069.8	2872.5	1988.7	1420.9	1295.4	1245.8	1157.8	1064.8	985.4	900.1	889.8
47.5°	3462.6	3135.5	1944.3	1294.5	1175.8	1130.6	1051.1	964.9	870.9	788.1	778.8
50°	4002.2	3512.9	1903.3	1171.6	1058.0	1023.8	960.6	872.7	777.9	711.2	707.0
52.5°	4688.8	4026.1	1886.2	1052.9	947.8	935.0	884.7	802.7	713.0	656.6	652.4
55°	5476.9	4640.1	1886.2	939.3	851.4	855.6	820.6	744.6	666.9	616.5	611.4
57.5°	6281.2	5261.7	1852.1	834.2	769.4	787.3	765.1	698.4	628.4	576.4	567.8
60°	7022.4	5782.5	1713.8	738.6	696.8	725.0	710.4	653.2	567.8	524.3	517.4
62.5°	7592.0	6076.3	1447.3	662.7	637.0	669.4	661.7	593.5	556.8	538.8	532.8
65°	7877.2	6028.5	1106.7	595.1	586.6	637.0	620.7	618.2	589.2	568.7	561.9
67.5°	7702.2	5616.9	802.7	545.6	557.6	607.1	669.4	679.7	625.9	585.8	578.9
70°	6934.4	4872.3	597.7	498.7	520.9	607.9	763.4	711.2	614.0	567.0	559.3
72.5°	5275.4	3633.3	463.7	449.2	473.0	612.2	805.2	696.8	579.8	626.8	621.7
75°	3016.8	1994.6	372.3	388.5	413.3	572.2	783.9	659.2	553.3	575.5	575.5
77.5°	1150.2	766.8	307.4	328.7	332.2	499.5	749.7	656.6	526.8	514.0	468.8
80°	398.7	299.7	254.5	261.3	257.1	444.0	718.9	571.2	431.2	385.9	373.2
82.5°	163.1	149.4	201.5	193.0	182.8	345.0	580.7	467.1	352.7	311.7	308.2
85°	70.8	94.8	133.2	117.0	105.9	239.1	465.4	395.3	298.0	257.1	256.1
87.5°	14.6	35.9	56.4	53.0	54.6	159.7	330.5	281.0	210.9	158.0	123.8
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)