

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: P962463

Luminaire Tested: **NAV-SB2C-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-735-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15557.4 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - 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



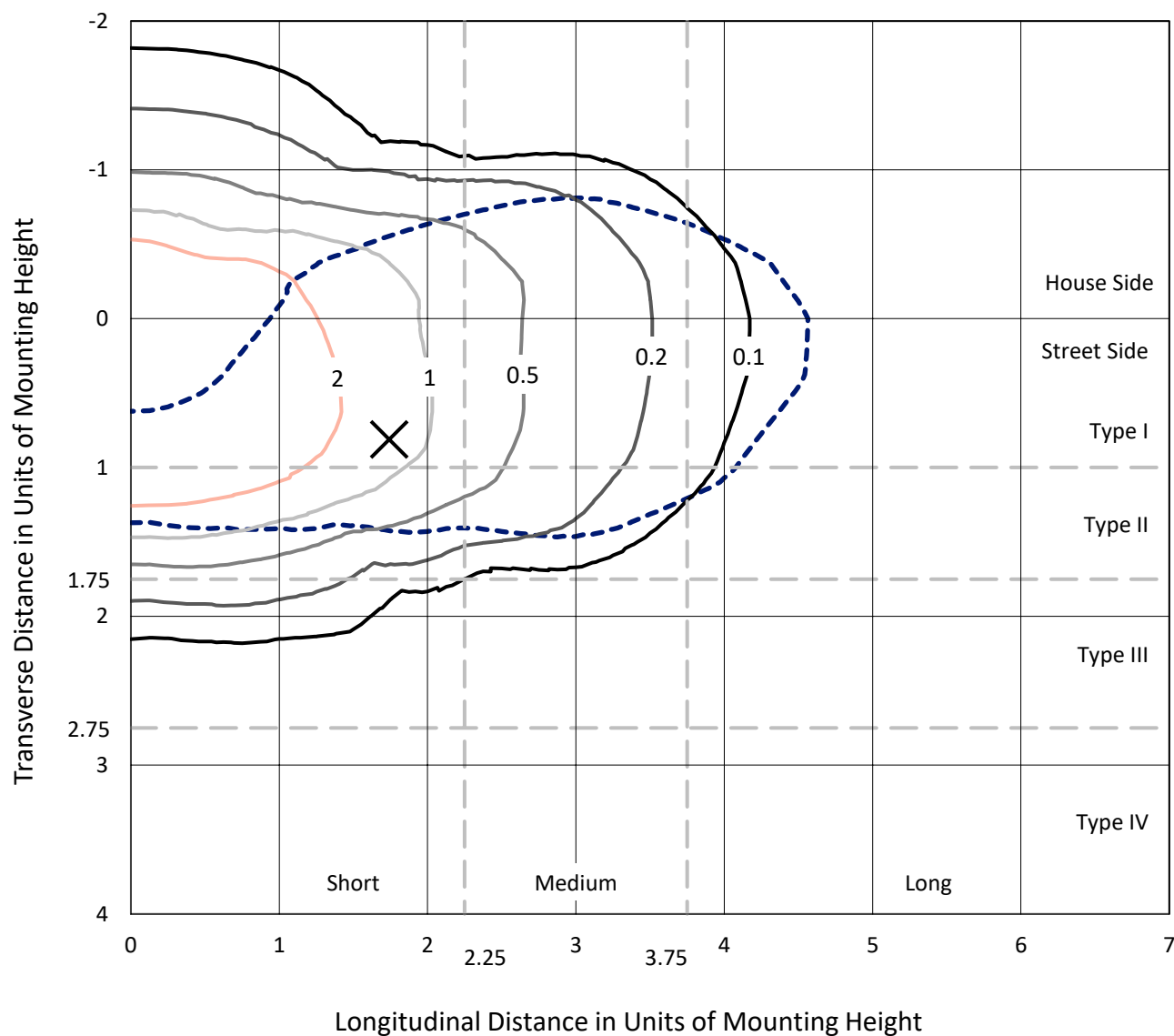
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

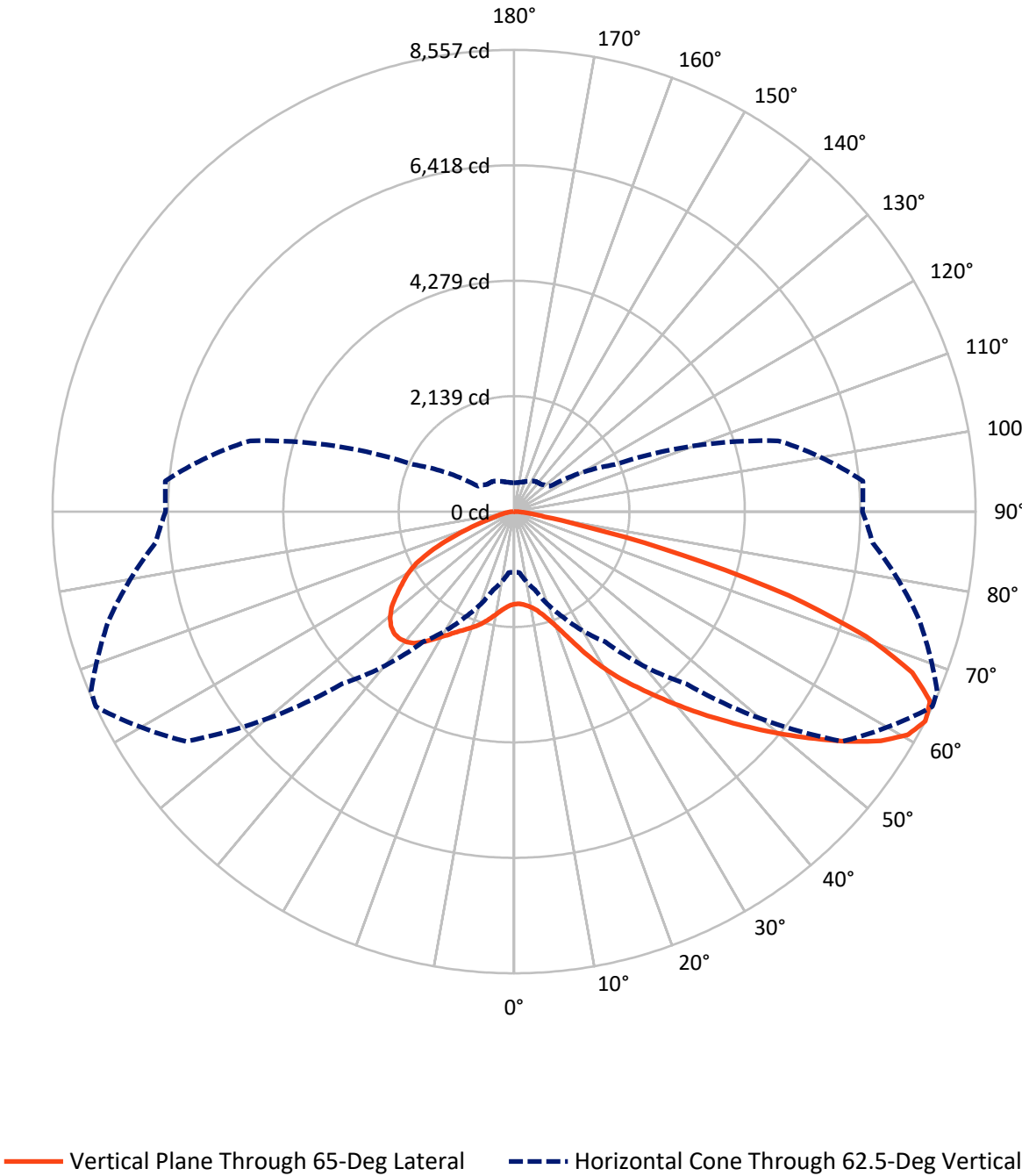


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4909.3	0.0	4909.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	10648.2	0.0	10648.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	15557.4	0.0	15557.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	1.1
10°-20°	579.6	3.7
20°-30°	1175.2	7.6
30°-40°	2033.7	13.1
40°-50°	3077.6	19.8
50°-60°	3608.3	23.2
60°-70°	3025.1	19.4
70°-80°	1670.1	10.7
80°-90°	216.9	1.4
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°	15557.4	100.0
0°-180°	15557.4	100.0

Coefficient of Utilization



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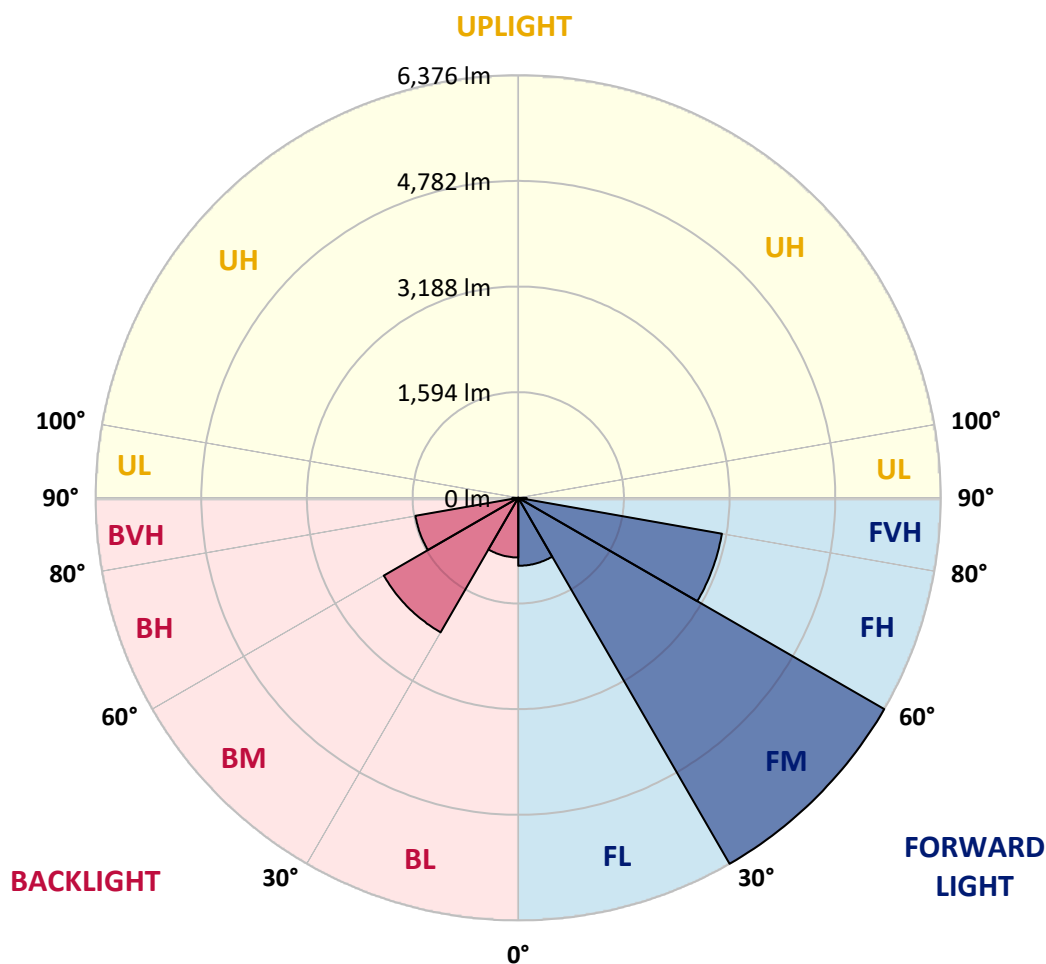
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1025.4	6.6			
FM	(30°-60°)	6375.9	41.0			
FH	(60°-80°)	3120.4	20.1			G2/5000
FVH	(80°-90°)	126.4	0.8			G2/225
BL	(0°-30°)	900.3	5.8	B2/1000		
BM	(30°-60°)	2343.6	15.1	B2/2500		
BH	(60°-80°)	1574.9	10.1	B3/2500		G3/2500
BVH	(80°-90°)	90.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3
2.5°	1703.0	1698.2	1702.2	1702.2	1703.9	1703.0	1708.7	1710.3	1712.8	1717.6	1717.6
5°	1686.1	1685.3	1692.6	1699.0	1705.5	1711.1	1718.4	1728.9	1730.5	1736.1	1743.4
7.5°	1680.5	1675.7	1686.9	1695.0	1710.3	1724.0	1743.4	1761.2	1768.4	1770.9	1784.6
10°	1724.0	1716.0	1726.5	1731.3	1744.2	1758.0	1780.5	1808.8	1816.9	1826.6	1841.9
12.5°	1798.3	1789.4	1804.7	1812.0	1824.1	1836.3	1851.6	1879.0	1883.0	1900.9	1915.3
15°	1900.0	1889.5	1899.2	1908.0	1928.2	1939.5	1954.9	1981.5	1981.5	1995.3	2005.7
17.5°	2038.0	2024.3	2031.5	2034.8	2047.7	2064.7	2090.5	2113.9	2126.1	2121.1	2106.7
20°	2243.8	2226.9	2226.9	2210.7	2205.9	2219.6	2253.6	2285.9	2298.8	2273.8	2238.2
22.5°	2553.0	2528.8	2515.0	2460.2	2438.4	2440.0	2473.8	2513.4	2524.0	2479.6	2399.6
25°	2946.1	2908.1	2889.6	2808.8	2759.6	2716.9	2743.5	2794.4	2808.8	2754.0	2624.8
27.5°	3339.1	3341.6	3323.8	3226.9	3145.4	3067.1	3053.4	3106.7	3122.0	3059.8	2900.0
30°	3890.4	3833.1	3799.2	3682.9	3566.8	3457.0	3400.4	3422.3	3426.3	3352.1	3166.4
32.5°	4365.8	4351.3	4278.7	4177.0	4027.6	3855.7	3761.2	3726.6	3720.1	3614.4	3394.0
35°	4907.4	4899.3	4822.6	4701.6	4540.1	4301.2	4131.0	4031.6	4023.6	3875.1	3619.2
37.5°	5457.9	5457.9	5382.8	5250.5	5083.4	4784.7	4525.6	4368.2	4342.4	4148.7	3848.5
40°	5896.9	5870.3	5884.0	5828.4	5637.1	5319.9	4963.9	4735.5	4700.8	4468.3	4092.2
42.5°	6146.4	6137.5	6219.8	6281.9	6203.7	5950.2	5446.5	5133.4	5085.0	4820.3	4373.1
45°	6202.1	6192.3	6339.3	6566.9	6676.6	6572.5	5971.2	5552.3	5493.4	5188.2	4674.1
47.5°	6073.7	6054.4	6269.8	6629.0	6981.0	7164.1	6539.4	6006.7	5921.2	5546.7	4983.2
50°	5687.9	5669.4	5995.4	6472.5	7083.5	7566.1	7156.1	6488.6	6357.9	5930.9	5295.7
52.5°	4849.3	4858.2	5369.1	6024.4	6948.7	7816.3	7687.2	6996.2	6838.9	6323.9	5588.6
55°	3777.4	3796.8	4424.7	5146.3	6409.5	7778.4	8049.6	7519.3	7362.7	6693.6	5891.3
57.5°	2704.8	2790.3	3378.7	4093.0	5374.0	7177.0	8128.7	8016.5	7864.7	7097.2	6187.5
60°	1753.1	1768.4	2373.8	3093.8	4092.2	6108.4	7968.0	8393.4	8274.8	7508.8	6435.4
62.5°	1123.5	1134.1	1502.9	2164.0	2945.2	4519.1	7427.3	8557.3	8520.9	7780.8	6673.5
65°	825.7	817.6	1009.7	1430.3	1984.0	2787.1	6377.2	8478.2	8550.0	7951.1	6870.4
67.5°	689.3	678.0	772.4	990.4	1461.8	1582.8	4718.5	7964.0	8227.2	7931.8	7014.9
70°	627.9	618.3	675.6	735.3	1140.5	1059.7	2378.6	6923.7	7328.9	7711.4	6991.4
72.5°	531.9	515.0	593.3	652.9	887.0	812.8	983.1	5318.2	5812.2	7005.2	6662.1
75°	412.5	401.2	468.1	574.7	666.7	634.4	621.5	3229.4	3768.5	5417.5	5828.4
77.5°	326.9	311.6	372.9	447.9	599.7	478.7	452.8	1390.7	1925.1	3458.6	4361.0
80°	246.2	232.5	283.3	354.3	460.8	360.8	292.9	567.4	725.6	1752.3	2193.0
82.5°	175.2	163.1	197.7	259.9	310.0	323.7	180.0	318.1	357.5	675.6	489.9
85°	112.2	105.0	132.3	163.1	196.9	208.3	109.8	166.3	182.4	278.5	204.2
87.5°	61.3	50.0	71.0	75.8	91.2	83.1	52.5	60.6	65.4	100.9	86.4
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°	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3	1714.3
2.5°	1720.8	1723.2	1731.3	1733.7	1739.4	1746.6	1751.5	1756.3	1756.3	1761.2	1761.2
5°	1744.2	1749.9	1766.8	1775.7	1790.3	1804.7	1813.6	1824.1	1830.5	1833.8	1835.5
7.5°	1789.4	1798.3	1822.6	1837.8	1862.8	1883.0	1896.8	1911.3	1914.5	1923.4	1920.2
10°	1850.7	1861.3	1888.7	1917.8	1947.6	1972.6	1985.5	1996.1	2000.1	2001.7	1997.6
12.5°	1921.0	1936.3	1971.8	2007.4	2038.8	2060.7	2063.8	2061.5	2050.1	2040.5	2040.5
15°	2007.4	2021.1	2060.7	2099.4	2130.1	2134.0	2113.9	2100.9	2087.3	2084.8	2084.8
17.5°	2110.7	2118.0	2154.2	2192.2	2194.6	2180.9	2151.1	2138.9	2126.1	2117.1	2118.0
20°	2230.9	2228.6	2254.4	2270.5	2253.6	2211.5	2166.3	2146.1	2133.2	2122.8	2123.6
22.5°	2374.6	2356.1	2352.8	2348.8	2303.6	2215.6	2154.2	2128.4	2108.2	2093.8	2098.6
25°	2583.6	2512.6	2463.4	2435.9	2334.2	2193.8	2115.5	2058.2	2020.3	1995.3	2004.9
27.5°	2845.2	2725.7	2601.4	2534.4	2334.2	2149.4	2021.9	1929.0	1866.9	1841.1	1854.0
30°	3094.6	2969.4	2786.3	2653.1	2328.6	2076.8	1870.9	1741.8	1669.2	1643.4	1658.7
32.5°	3307.7	3171.2	2982.3	2783.0	2314.9	1958.9	1683.7	1540.8	1470.6	1439.9	1455.3
35°	3505.4	3360.2	3179.3	2925.9	2278.6	1786.2	1477.8	1368.9	1290.6	1241.4	1257.6
37.5°	3708.0	3535.2	3365.8	3055.0	2213.2	1584.4	1319.7	1226.8	1134.9	1068.7	1086.4
40°	3928.3	3721.7	3565.2	3131.7	2105.9	1392.4	1197.0	1112.2	1014.5	944.3	958.1
42.5°	4185.8	3945.3	3787.1	3171.2	1958.9	1255.9	1117.0	1033.9	942.0	884.6	896.0
45°	4454.6	4191.4	3989.7	3170.4	1795.1	1192.2	1091.2	1008.9	907.2	847.5	857.2
47.5°	4736.3	4448.9	4164.9	3118.8	1653.0	1201.0	1076.8	954.9	842.7	784.5	792.6
50°	5018.8	4730.7	4334.3	3021.9	1592.4	1181.6	1022.6	878.9	746.6	694.1	697.4
52.5°	5298.8	5030.1	4480.5	2883.9	1531.1	1109.8	953.2	780.5	707.0	670.8	670.8
55°	5580.5	5326.3	4639.5	2682.9	1377.8	1025.9	837.0	743.3	675.6	642.5	639.3
57.5°	5863.1	5668.6	4790.3	2481.9	1184.9	922.6	773.3	698.1	644.1	615.8	611.0
60°	6156.9	6060.0	4946.1	2297.1	994.4	790.2	726.4	661.8	607.0	575.5	573.1
62.5°	6459.5	6491.0	5068.0	2059.0	819.3	709.5	684.5	618.3	565.0	535.2	534.3
65°	6764.6	6906.7	5148.0	1728.9	664.3	632.8	639.3	570.6	516.6	490.8	489.9
67.5°	6994.7	7206.2	5125.3	1308.4	544.8	560.2	582.7	520.6	469.8	449.6	450.4
70°	7020.5	7170.6	4902.6	896.0	456.0	489.1	519.8	471.4	418.9	404.4	405.2
72.5°	6676.6	6686.4	4281.8	585.2	385.8	429.4	453.6	421.4	370.4	356.0	355.2
75°	5775.1	5529.7	3143.8	385.8	322.9	368.9	391.4	368.9	319.6	322.9	311.6
77.5°	4375.5	3916.2	1908.9	274.4	269.6	310.0	340.6	324.5	282.5	317.2	279.3
80°	2254.4	2118.8	851.6	205.0	213.1	247.7	280.0	259.1	223.6	213.1	194.5
82.5°	516.6	600.5	335.8	146.9	154.2	178.4	213.9	194.5	160.6	135.6	134.0
85°	180.8	197.7	148.5	92.0	90.4	111.4	145.2	130.0	109.0	87.1	92.0
87.5°	57.3	75.0	55.7	37.1	38.7	50.0	67.0	61.3	50.8	33.1	34.7
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)