

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: P962468

Luminaire Tested: **NAV-SB2C-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-735-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15361.7 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

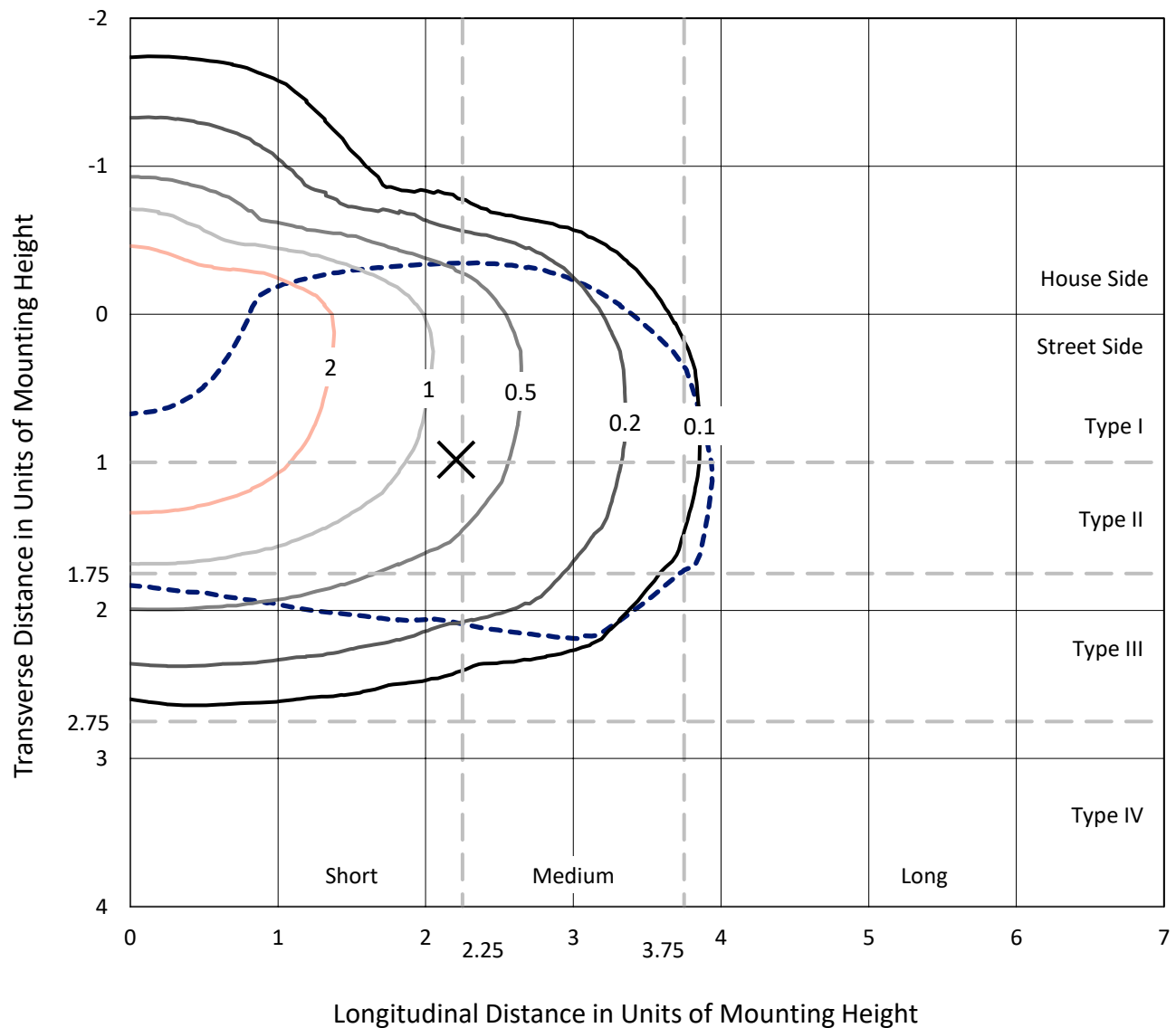
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

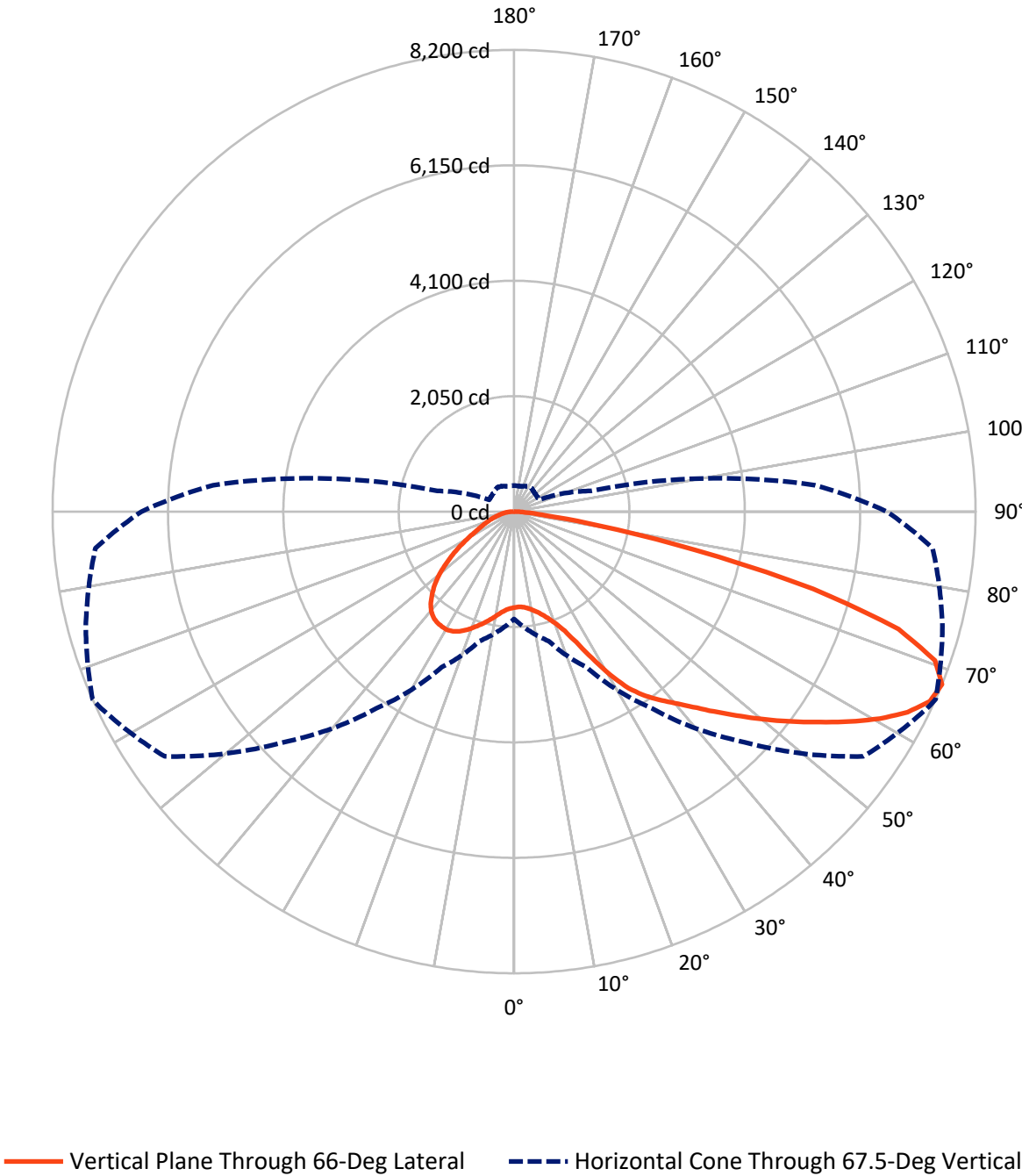
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3819.6	0.0	3819.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	11542.0	0.0	11542.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	15361.7	0.0	15361.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	1.1
10°-20°	558.1	3.6
20°-30°	1075.7	7.0
30°-40°	1886.1	12.3
40°-50°	2804.1	18.3
50°-60°	3554.5	23.1
60°-70°	3477.9	22.6
70°-80°	1659.0	10.8
80°-90°	177.3	1.2
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°	15361.7	100.0
0°-180°	15361.7	100.0

Coefficient of Utilization



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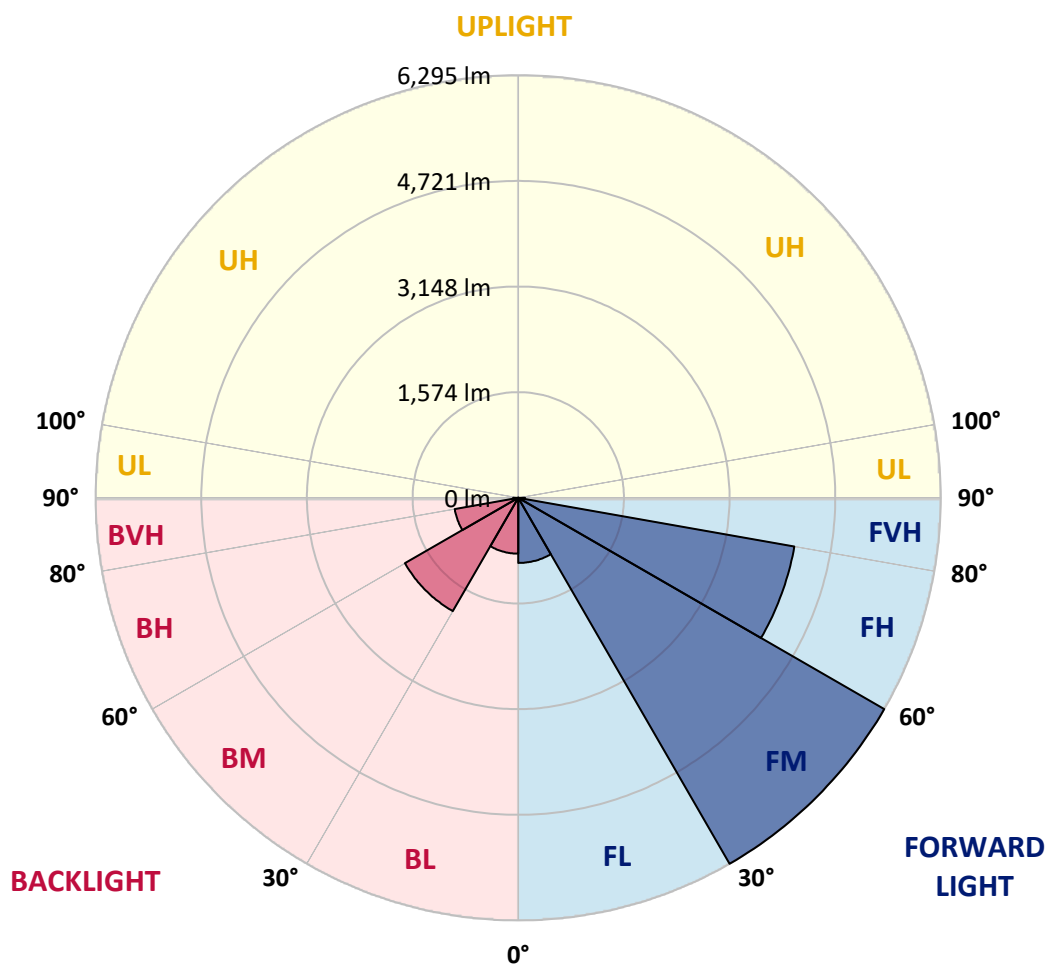
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	970.7	6.3			
FM	(30°-60°)	6295.1	41.0			
FH	(60°-80°)	4175.7	27.2			G2/5000
FVH	(80°-90°)	100.5	0.7			G2/225
BL	(0°-30°)	832.1	5.4	B2/1000		
BM	(30°-60°)	1949.6	12.7	B2/2500		
BH	(60°-80°)	961.2	6.3	B2/1000		G2/1000
BVH	(80°-90°)	76.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1703.9	1703.9	1703.9	1703.9	1703.9	1703.9	1703.9	1703.9	1703.9	1703.9	1703.9
2.5°	1686.0	1695.8	1693.3	1689.3	1688.5	1690.1	1692.5	1694.9	1694.1	1698.1	1704.6
5°	1681.2	1690.9	1690.1	1690.1	1693.3	1699.8	1703.9	1707.9	1703.9	1708.7	1717.5
7.5°	1684.5	1691.7	1694.9	1698.1	1706.2	1718.3	1728.0	1736.9	1732.0	1737.7	1749.1
10°	1725.6	1731.2	1734.5	1734.5	1740.1	1753.9	1763.5	1779.7	1775.6	1784.5	1799.1
12.5°	1800.6	1806.4	1806.4	1803.1	1807.1	1816.0	1819.3	1837.0	1829.7	1844.3	1858.7
15°	1892.7	1903.9	1895.1	1889.5	1891.0	1899.9	1899.1	1912.9	1905.6	1917.7	1930.6
17.5°	1994.3	2008.9	1994.3	1993.5	1990.3	2000.0	2000.8	2012.9	2000.0	2008.9	2017.8
20°	2114.7	2134.8	2122.7	2126.8	2119.5	2123.5	2127.6	2145.3	2125.1	2131.6	2129.1
22.5°	2284.1	2308.3	2295.4	2310.8	2305.9	2302.7	2301.8	2333.3	2301.8	2304.3	2280.9
25°	2531.1	2560.1	2537.6	2558.5	2558.5	2569.1	2581.2	2621.5	2569.1	2553.7	2493.2
27.5°	2895.9	2924.9	2880.6	2893.5	2889.5	2915.3	2902.4	3002.4	2946.0	2920.9	2799.1
30°	3334.9	3386.6	3302.7	3299.5	3295.5	3336.6	3355.1	3421.3	3364.0	3339.0	3192.2
32.5°	3809.6	3863.6	3763.6	3734.5	3719.2	3744.2	3728.8	3782.1	3742.6	3703.8	3522.2
35°	4311.6	4364.9	4269.6	4213.2	4151.8	4099.3	4044.4	4058.2	4021.1	3962.1	3774.0
37.5°	4786.1	4883.8	4783.0	4722.4	4609.4	4506.9	4353.6	4289.8	4255.1	4201.1	4011.3
40°	5269.6	5325.3	5248.6	5197.0	5074.3	4913.6	4668.4	4533.6	4486.7	4434.3	4273.6
42.5°	5625.6	5678.8	5637.7	5602.1	5506.1	5319.6	5002.5	4833.8	4766.0	4707.1	4570.7
45°	5908.1	5947.6	5921.7	5934.6	5893.5	5712.7	5348.8	5155.9	5085.6	5013.8	4906.5
47.5°	6021.9	6063.8	6105.0	6181.7	6251.9	6118.7	5720.8	5504.5	5430.2	5356.8	5251.1
50°	6009.0	6051.7	6171.2	6334.2	6552.1	6507.7	6113.1	5875.8	5807.1	5723.2	5625.6
52.5°	5905.6	5954.0	6107.5	6378.6	6725.6	6799.1	6512.5	6259.2	6194.6	6094.5	5996.9
55°	5634.4	5663.5	5893.5	6277.7	6766.8	7002.5	6904.0	6667.5	6602.9	6463.3	6356.8
57.5°	5131.7	5173.6	5508.6	6005.7	6663.5	7140.6	7247.9	7096.9	7034.8	6833.8	6722.5
60°	4475.5	4542.4	4925.8	5548.9	6400.4	7139.7	7560.2	7519.1	7467.4	7198.7	7082.4
62.5°	3732.8	3810.3	4179.2	4903.2	5940.4	6937.1	7755.6	7872.6	7846.0	7535.2	7386.7
65°	2866.8	2920.1	3287.4	4067.8	5224.4	6502.1	7778.1	8113.9	8118.7	7791.0	7545.6
67.5°	1908.9	2062.2	2381.0	3052.4	4265.5	5791.0	7579.6	8153.5	8200.2	7879.1	7465.8
70°	931.4	1133.1	1445.6	1983.9	3052.4	4700.6	7060.6	7828.9	7933.1	7622.4	6989.6
72.5°	386.6	452.0	622.3	979.0	1752.2	3172.0	6017.8	6949.2	7142.1	6753.9	5876.5
75°	260.7	282.5	356.0	502.0	798.3	1564.1	4339.8	5181.7	5492.4	5100.9	4169.5
77.5°	201.0	214.7	259.1	351.1	474.6	591.6	2322.9	3122.8	3283.3	3039.5	2169.5
80°	158.2	168.7	193.7	255.8	336.6	316.4	791.8	1414.9	1507.7	1264.7	697.3
82.5°	137.2	141.2	138.8	173.5	223.6	184.8	259.9	522.2	576.3	418.1	227.7
85°	99.3	110.6	115.4	107.3	118.7	93.6	106.5	184.8	203.4	181.6	128.3
87.5°	40.4	59.8	73.5	69.4	43.6	26.6	33.1	54.1	62.1	67.8	41.9
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°	1703.9	1703.9	1703.9	1703.9	1703.9	1703.9	1703.9	1703.9	1703.9	1703.9	1703.9
2.5°	1705.4	1711.0	1715.1	1720.0	1723.2	1728.0	1737.7	1743.3	1744.1	1748.2	1747.4
5°	1720.8	1728.9	1737.7	1750.6	1765.2	1777.2	1795.8	1808.7	1813.5	1817.6	1816.8
7.5°	1753.9	1765.2	1781.2	1803.9	1824.9	1841.0	1863.7	1878.9	1894.3	1899.9	1900.8
10°	1803.1	1819.3	1842.6	1873.3	1895.9	1916.9	1940.3	1953.2	1968.5	1975.0	1978.2
12.5°	1864.5	1881.4	1912.0	1954.8	1975.8	1990.3	1998.4	1995.2	1998.4	2004.1	2005.7
15°	1934.7	1953.2	1987.9	2033.9	2048.5	2035.5	2017.8	2001.6	1999.3	2000.8	2006.4
17.5°	2017.8	2031.5	2071.8	2110.6	2100.1	2046.8	2008.1	1982.2	1969.3	1965.3	1971.0
20°	2134.0	2134.0	2167.1	2191.3	2121.1	2030.7	1970.2	1928.2	1901.6	1890.3	1887.8
22.5°	2275.3	2262.4	2283.3	2266.4	2117.0	1985.5	1901.6	1828.9	1788.5	1772.4	1770.0
25°	2454.5	2439.1	2433.5	2328.5	2088.0	1913.7	1777.2	1689.3	1653.7	1644.9	1646.5
27.5°	2724.9	2686.1	2612.6	2362.4	2034.7	1800.6	1632.0	1550.4	1530.3	1531.0	1533.5
30°	3084.7	3007.2	2827.4	2368.1	1947.6	1640.8	1483.5	1425.4	1415.6	1419.7	1433.5
32.5°	3418.1	3344.7	3046.8	2342.2	1813.5	1484.3	1350.3	1311.6	1297.0	1301.9	1308.3
35°	3679.6	3659.5	3250.3	2305.9	1648.9	1337.4	1230.8	1197.7	1169.5	1163.1	1167.9
37.5°	3926.6	3918.6	3402.8	2255.1	1485.9	1233.3	1134.8	1091.2	1050.0	1027.5	1028.3
40°	4197.8	4189.7	3502.8	2176.8	1341.4	1142.9	1048.5	991.2	940.3	899.1	903.1
42.5°	4502.8	4455.3	3550.5	2064.6	1218.7	1066.2	978.3	900.8	833.7	795.8	798.3
45°	4836.3	4728.8	3549.7	1921.8	1115.4	996.0	903.1	793.3	731.2	695.8	694.1
47.5°	5189.7	4990.4	3506.1	1763.5	1015.4	918.5	786.9	702.9	661.8	640.0	635.2
50°	5554.6	5234.9	3431.8	1582.0	912.9	830.6	714.3	657.0	625.6	605.4	598.1
52.5°	5897.5	5456.9	3342.2	1376.2	808.7	745.0	682.0	637.7	604.5	581.9	572.3
55°	6216.4	5648.2	3215.5	1165.4	724.0	687.7	666.7	629.6	591.6	565.0	554.5
57.5°	6499.6	5772.5	2996.8	967.7	663.5	648.1	650.6	615.8	572.3	549.6	535.2
60°	6735.4	5863.7	2673.2	784.5	614.2	609.4	625.6	590.0	539.2	513.3	502.0
62.5°	6876.6	5862.1	2276.0	642.5	572.3	573.9	592.4	557.7	506.0	481.9	474.6
65°	6864.5	5718.4	1840.2	549.6	531.9	533.5	557.7	522.2	478.6	464.1	463.3
67.5°	6621.5	5368.1	1411.6	489.1	487.5	494.8	523.1	497.9	461.7	460.0	462.5
70°	5963.8	4640.9	1017.0	440.6	441.5	452.0	489.1	482.7	452.7	456.0	455.2
72.5°	4782.1	3538.4	682.9	389.8	390.6	407.6	456.8	470.6	443.9	486.7	493.1
75°	3184.9	2206.6	439.1	335.8	336.6	358.3	428.6	447.1	419.7	485.0	489.1
77.5°	1530.3	991.9	318.0	282.5	282.5	302.7	370.4	400.4	357.5	376.9	345.4
80°	528.7	372.9	250.2	227.7	222.7	236.5	312.3	347.1	308.3	284.1	266.4
82.5°	208.3	193.7	201.0	176.7	160.6	169.5	242.9	286.5	226.8	205.0	204.2
85°	119.4	125.9	142.1	117.1	92.9	104.1	178.4	205.8	171.1	150.9	154.2
87.5°	32.3	44.4	65.4	60.6	41.9	44.4	84.8	113.8	98.5	75.8	78.3
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)