

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: P962499

Luminaire Tested: **NAV-SB2C-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962499
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-740-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16252.4 lumens
Efficiency: N/A
Efficacy: 161.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - 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



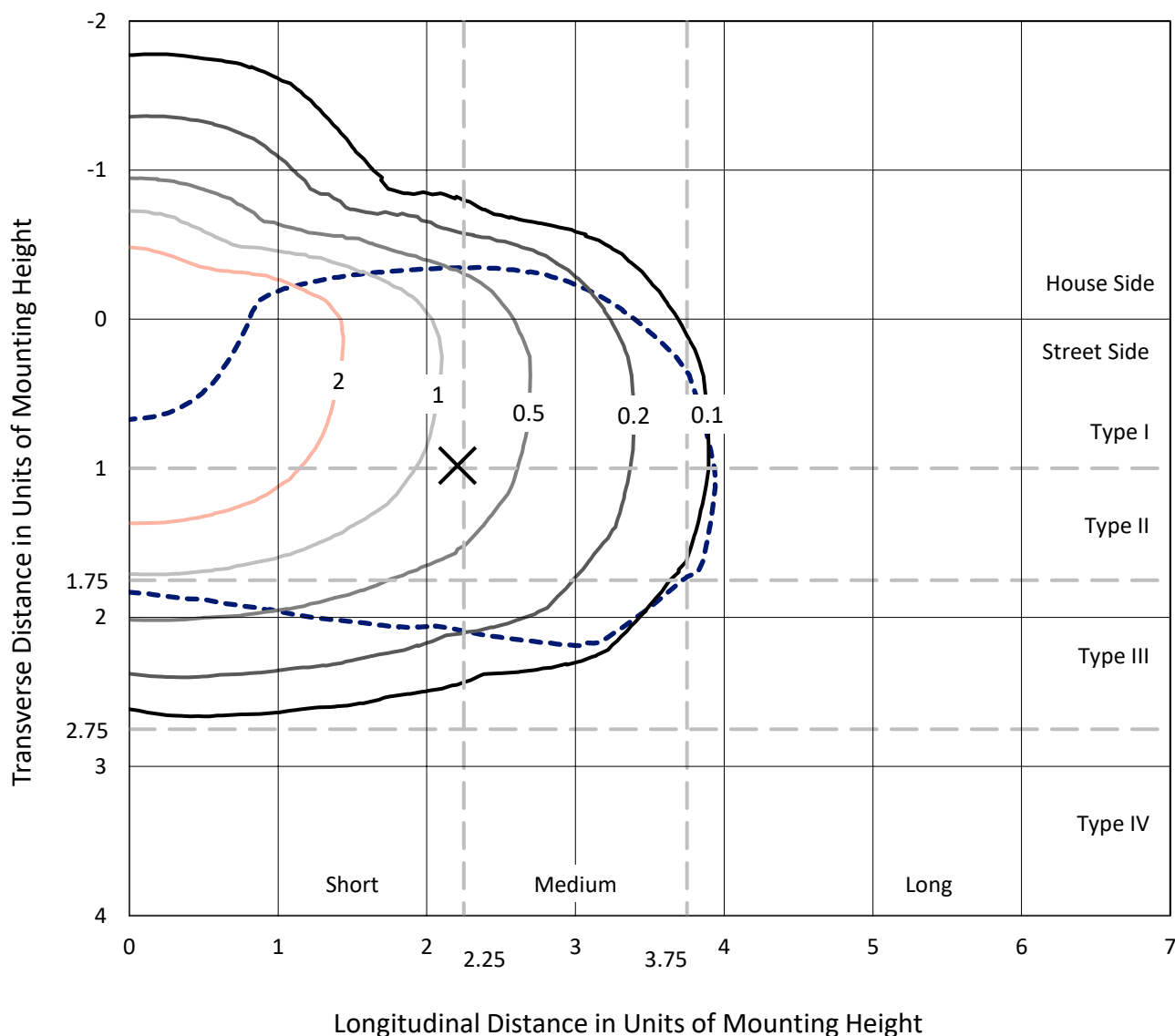
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

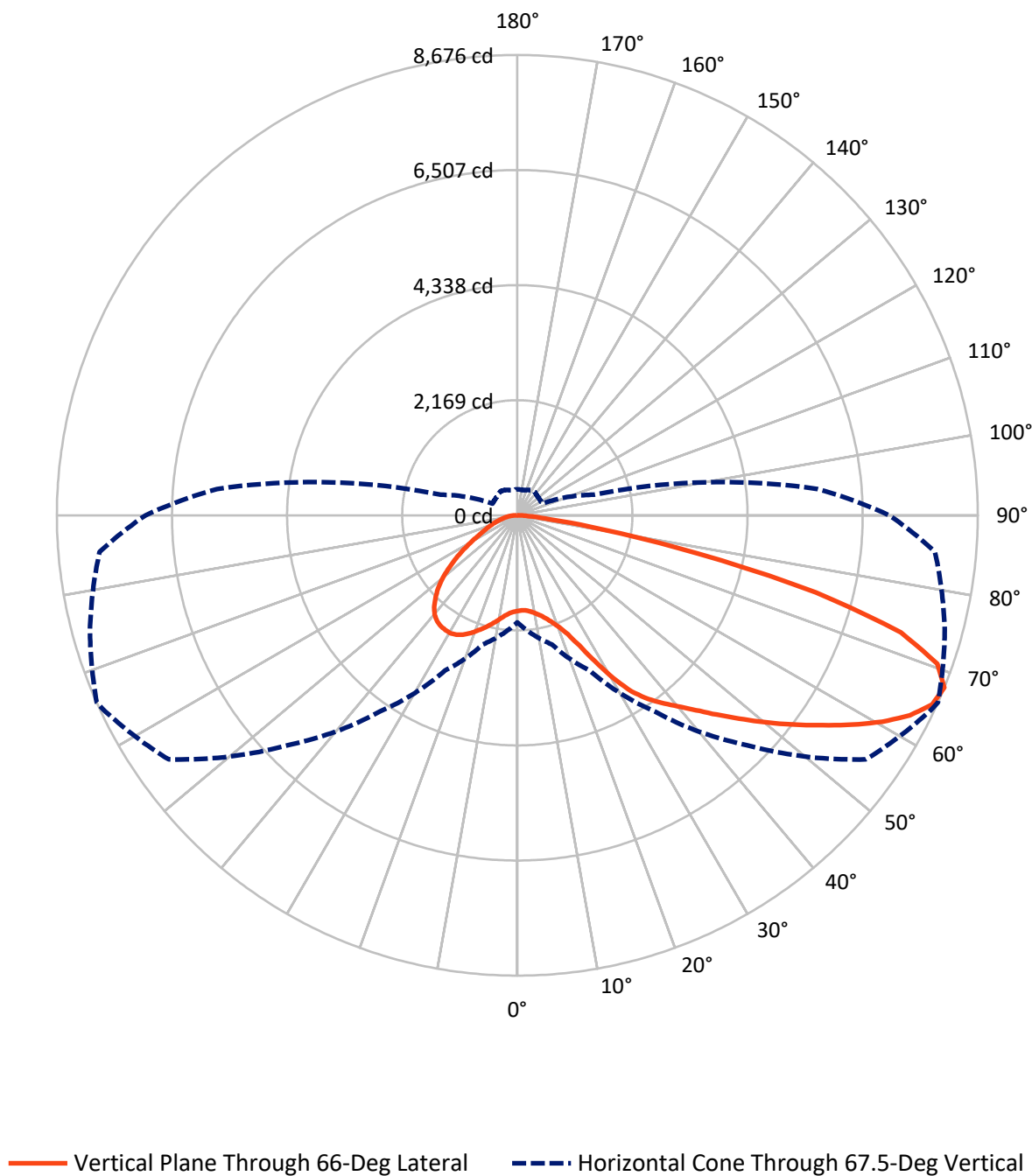


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc

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	4041.1	0.0	4041.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	12211.3	0.0	12211.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	16252.4	0.0	16252.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	1.1
10°-20°	590.5	3.6
20°-30°	1138.1	7.0
30°-40°	1995.5	12.3
40°-50°	2966.7	18.3
50°-60°	3760.5	23.1
60°-70°	3679.6	22.6
70°-80°	1755.2	10.8
80°-90°	187.6	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°	16252.4	100.0
0°-180°	16252.4	100.0

Coefficient of Utilization



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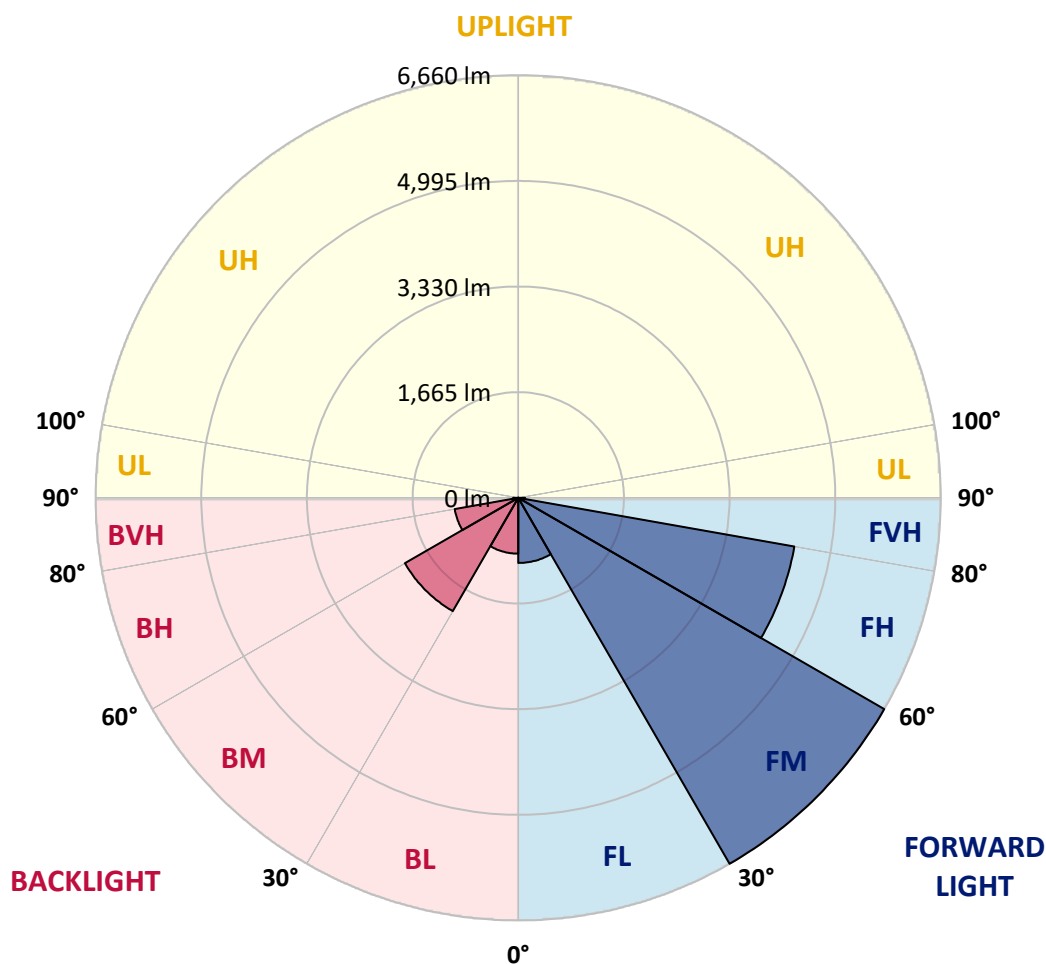
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1027.0	6.3			
FM	(30°-60°)	6660.1	41.0			
FH	(60°-80°)	4417.8	27.2			G2/5000
FVH	(80°-90°)	106.4	0.7			G2/225
BL	(0°-30°)	880.3	5.4	B2/1000		
BM	(30°-60°)	2062.6	12.7	B2/2500		
BH	(60°-80°)	1017.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	81.2	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6
2.5°	1783.8	1794.1	1791.5	1787.2	1786.4	1788.1	1790.7	1793.2	1792.3	1796.6	1803.5
5°	1778.7	1788.9	1788.1	1788.1	1791.5	1798.4	1802.6	1806.9	1802.6	1807.7	1817.1
7.5°	1782.1	1789.8	1793.2	1796.6	1805.1	1817.9	1828.2	1837.6	1832.5	1838.4	1850.4
10°	1825.6	1831.7	1835.1	1835.1	1841.0	1855.6	1865.8	1882.8	1878.6	1887.9	1903.3
12.5°	1905.1	1911.0	1911.0	1907.6	1911.9	1921.3	1924.7	1943.5	1935.8	1951.2	1966.6
15°	2002.4	2014.3	2005.0	1999.0	2000.7	2010.1	2009.2	2023.8	2016.1	2028.9	2042.5
17.5°	2110.1	2125.3	2110.1	2109.1	2105.8	2116.0	2116.8	2129.6	2116.0	2125.3	2134.8
20°	2237.3	2258.6	2245.8	2250.1	2242.4	2246.6	2250.9	2269.7	2248.3	2255.2	2252.6
22.5°	2416.5	2442.2	2428.5	2444.7	2439.6	2436.2	2435.4	2468.6	2435.4	2438.0	2413.2
25°	2677.9	2708.6	2684.7	2706.9	2706.9	2718.0	2730.8	2773.5	2718.0	2701.8	2637.7
27.5°	3063.8	3094.6	3047.6	3061.3	3057.0	3084.3	3070.7	3176.6	3116.8	3090.3	2961.3
30°	3528.4	3583.0	3494.2	3490.7	3486.5	3530.1	3549.7	3619.7	3559.1	3532.7	3377.2
32.5°	4030.5	4087.7	3981.8	3951.1	3934.9	3961.3	3945.0	4001.4	3959.6	3918.6	3726.5
35°	4561.6	4617.9	4517.2	4457.4	4392.5	4337.0	4279.0	4293.4	4254.2	4191.8	3992.9
37.5°	5063.7	5167.0	5060.3	4996.3	4876.6	4768.2	4606.0	4538.5	4501.8	4444.6	4243.9
40°	5575.2	5634.1	5552.9	5498.3	5368.5	5198.6	4939.1	4796.4	4746.9	4691.4	4521.5
42.5°	5951.8	6008.1	5964.6	5927.0	5825.4	5628.2	5292.6	5114.0	5042.4	4980.0	4835.7
45°	6250.7	6292.5	6265.1	6278.8	6235.3	6044.0	5658.8	5454.7	5380.5	5304.5	5190.9
47.5°	6371.0	6415.5	6458.9	6540.1	6614.4	6473.5	6052.5	5823.6	5745.1	5667.4	5555.5
50°	6357.4	6402.7	6529.0	6701.4	6932.1	6885.1	6467.5	6216.5	6143.8	6055.1	5951.8
52.5°	6248.1	6299.3	6461.5	6748.5	7115.7	7193.3	6890.3	6622.1	6553.7	6447.9	6344.5
55°	5961.2	5991.8	6235.3	6641.7	7159.2	7408.5	7304.4	7054.2	6985.9	6838.1	6725.4
57.5°	5429.1	5473.6	5827.9	6354.0	7049.8	7554.6	7668.1	7508.4	7442.7	7230.0	7112.3
60°	4734.9	4805.8	5211.4	5870.7	6771.6	7553.7	7998.6	7955.0	7900.4	7616.1	7493.1
62.5°	3949.3	4031.3	4421.5	5187.5	6284.8	7339.4	8205.2	8329.0	8300.9	7972.1	7815.0
65°	3033.1	3089.5	3478.0	4303.7	5527.4	6879.1	8229.1	8584.4	8589.5	8242.8	7983.2
67.5°	2019.5	2181.7	2519.0	3229.5	4512.9	6126.8	8019.1	8626.2	8675.7	8335.9	7898.6
70°	985.4	1198.8	1529.4	2098.9	3229.5	4973.2	7470.0	8282.9	8393.1	8064.3	7394.9
72.5°	409.0	478.2	658.4	1035.8	1853.8	3355.8	6366.8	7352.2	7556.3	7145.5	6217.3
75°	275.8	298.9	376.6	531.2	844.5	1654.9	4591.5	5482.1	5810.8	5396.7	4411.3
77.5°	212.6	227.1	274.1	371.5	502.1	626.0	2457.5	3303.8	3473.7	3215.8	2295.3
80°	167.4	178.5	204.9	270.7	356.1	334.8	837.7	1496.9	1595.1	1338.0	737.8
82.5°	145.1	149.4	146.9	183.6	236.6	195.6	275.0	552.5	609.7	442.3	240.8
85°	105.1	117.0	122.1	113.6	125.6	99.0	112.7	195.6	215.1	192.1	135.8
87.5°	42.7	63.1	77.7	73.4	46.1	28.2	35.1	57.2	65.7	71.8	44.4
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°	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6	1802.6
2.5°	1804.3	1810.3	1814.6	1819.7	1823.1	1828.2	1838.4	1844.5	1845.3	1849.6	1848.7
5°	1820.5	1829.1	1838.4	1852.2	1867.5	1880.4	1899.9	1913.6	1918.7	1923.0	1922.2
7.5°	1855.6	1867.5	1884.6	1908.4	1930.7	1947.8	1971.7	1987.9	2004.1	2010.1	2010.9
10°	1907.6	1924.7	1949.4	1981.9	2005.8	2028.1	2052.8	2066.5	2082.7	2089.6	2092.9
12.5°	1972.5	1990.4	2022.9	2068.1	2090.4	2105.8	2114.3	2110.9	2114.3	2120.2	2122.0
15°	2046.8	2066.5	2103.2	2151.9	2167.3	2153.5	2134.8	2117.6	2115.1	2116.8	2122.8
17.5°	2134.8	2149.3	2192.0	2233.0	2221.9	2165.5	2124.5	2097.3	2083.5	2079.3	2085.3
20°	2257.8	2257.8	2292.7	2318.3	2244.0	2148.4	2084.4	2040.0	2011.8	1999.9	1997.3
22.5°	2407.2	2393.5	2415.7	2397.8	2239.8	2100.6	2011.8	1935.0	1892.3	1875.2	1872.7
25°	2596.7	2580.5	2574.5	2463.5	2209.1	2024.6	1880.4	1787.2	1749.7	1740.2	1742.0
27.5°	2882.8	2841.8	2764.1	2499.4	2152.7	1905.1	1726.6	1640.4	1619.0	1619.9	1622.5
30°	3263.6	3181.7	2991.3	2505.4	2060.5	1736.0	1569.5	1508.0	1497.7	1502.0	1516.6
32.5°	3616.3	3538.6	3223.5	2478.0	1918.7	1570.3	1428.5	1387.6	1372.3	1377.4	1384.2
35°	3893.0	3871.6	3438.7	2439.6	1744.6	1414.9	1302.3	1267.2	1237.3	1230.5	1235.6
37.5°	4154.3	4145.7	3600.1	2385.8	1572.0	1304.8	1200.6	1154.5	1110.9	1087.0	1087.8
40°	4441.2	4432.6	3706.0	2303.0	1419.2	1209.1	1109.3	1048.6	994.8	951.3	955.5
42.5°	4764.0	4713.6	3756.3	2184.3	1289.4	1128.0	1034.9	952.9	882.1	841.9	844.5
45°	5116.6	5003.0	3755.5	2033.2	1180.1	1053.7	955.5	839.4	773.7	736.1	734.4
47.5°	5490.6	5279.8	3709.4	1865.8	1074.2	971.7	832.6	743.7	700.2	677.1	672.0
50°	5876.6	5538.5	3630.9	1673.6	965.8	878.6	755.7	695.1	661.7	640.4	632.7
52.5°	6239.5	5773.3	3536.0	1455.9	855.6	788.1	721.6	674.6	639.6	615.7	605.5
55°	6576.8	5975.6	3402.0	1233.1	766.0	727.5	705.3	666.0	626.0	597.8	586.6
57.5°	6876.5	6107.2	3170.5	1023.9	701.9	685.7	688.3	651.5	605.5	581.5	566.1
60°	7125.9	6203.7	2828.2	830.0	649.8	644.7	661.7	624.2	570.4	543.0	531.2
62.5°	7275.3	6202.0	2408.0	679.7	605.5	607.1	626.8	590.1	535.4	509.8	502.1
65°	7262.5	6050.0	1946.9	581.5	562.7	564.5	590.1	552.5	506.4	491.0	490.2
67.5°	7005.5	5679.3	1493.5	517.4	515.8	523.5	553.3	526.8	488.4	486.8	489.3
70°	6309.6	4910.0	1075.9	466.3	467.1	478.2	517.4	510.7	479.1	482.5	481.6
72.5°	5059.4	3743.5	722.4	412.5	413.3	431.2	483.3	497.8	469.7	514.9	521.7
75°	3369.5	2334.6	464.5	355.3	356.1	379.1	453.5	473.0	444.0	513.2	517.4
77.5°	1619.0	1049.5	336.4	298.9	298.9	320.2	392.0	423.5	378.3	398.8	365.5
80°	559.3	394.5	264.8	240.8	235.6	250.2	330.5	367.2	326.2	300.5	281.8
82.5°	220.3	204.9	212.6	187.0	169.9	179.3	257.1	303.1	240.0	216.9	216.1
85°	126.4	133.2	150.3	123.8	98.2	110.2	188.7	217.7	181.0	159.7	163.1
87.5°	34.1	46.9	69.2	64.1	44.4	46.9	89.7	120.4	104.1	80.3	82.8
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)