

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: P962401

Luminaire Tested: **NAV-SB2C-727-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962401  
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-727-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14430 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

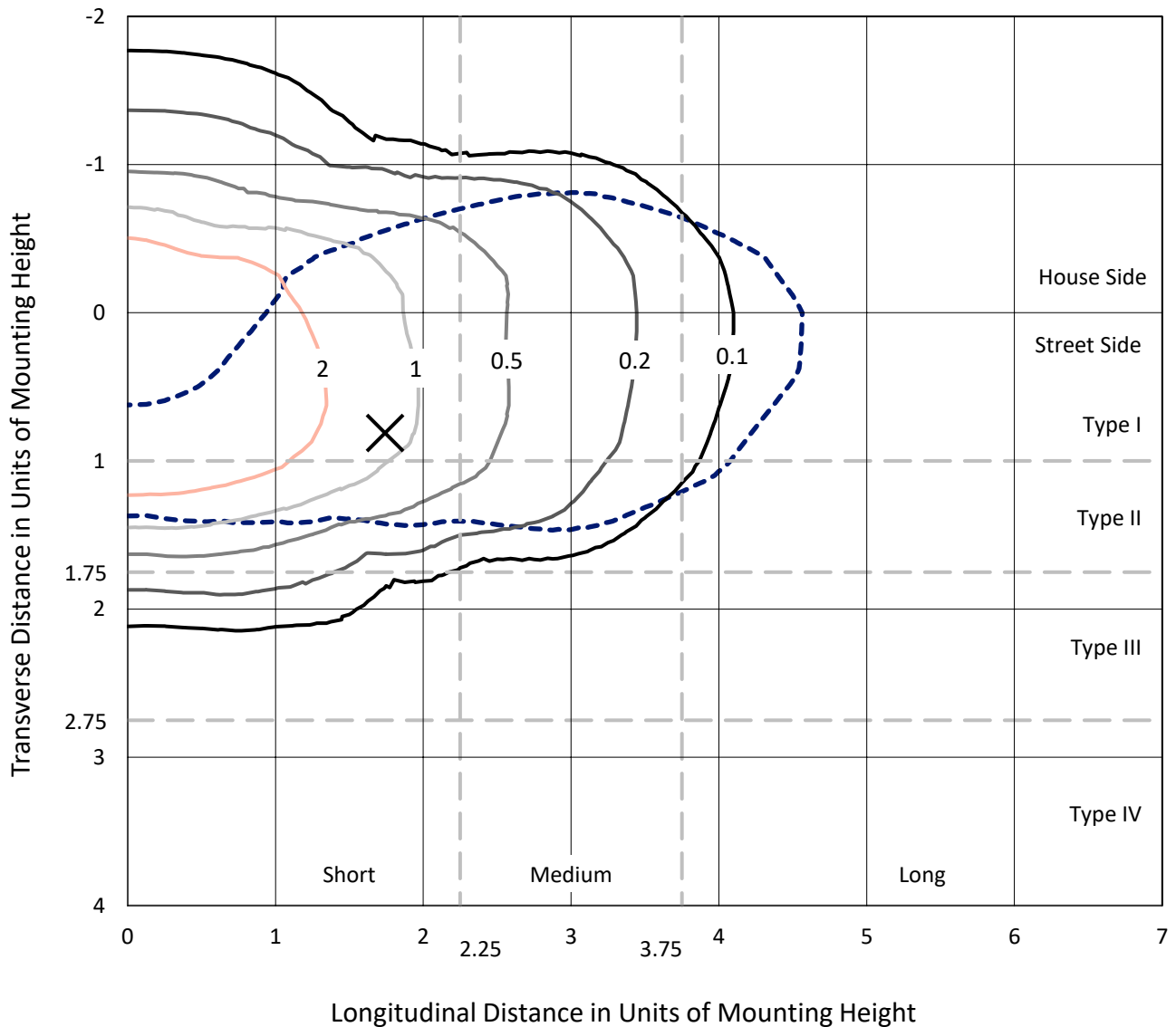
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

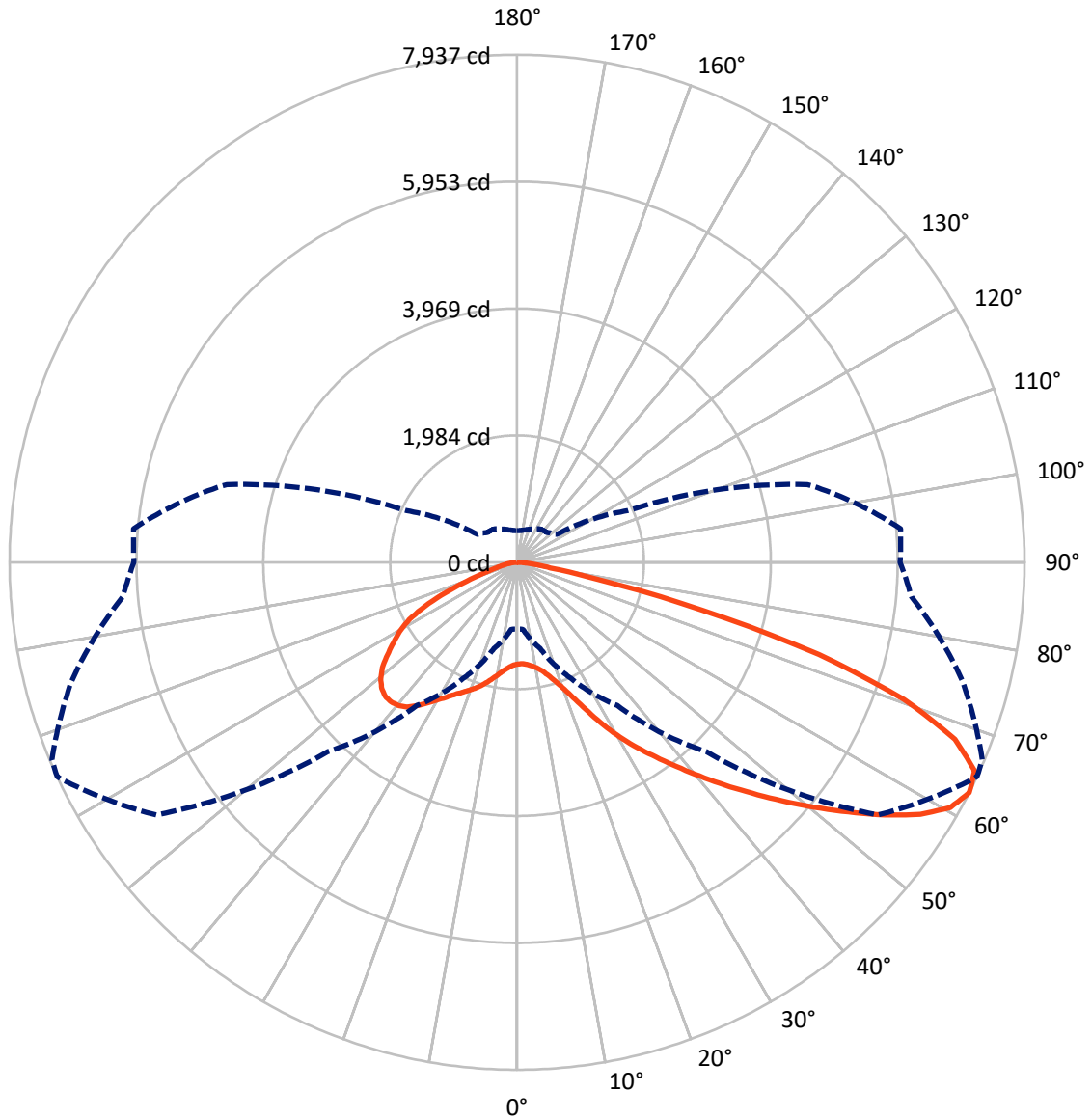
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4553.5	0.0	4553.5
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	9876.5	0.0	9876.5
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	14430.0	0.0	14430.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.5	1.1
10°-20°	537.6	3.7
20°-30°	1090.0	7.6
30°-40°	1886.3	13.1
40°-50°	2854.6	19.8
50°-60°	3346.8	23.2
60°-70°	2805.9	19.4
70°-80°	1549.1	10.7
80°-90°	201.2	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°	14430.0	100.0
0°-180°	14430.0	100.0

**Coefficient of Utilization**



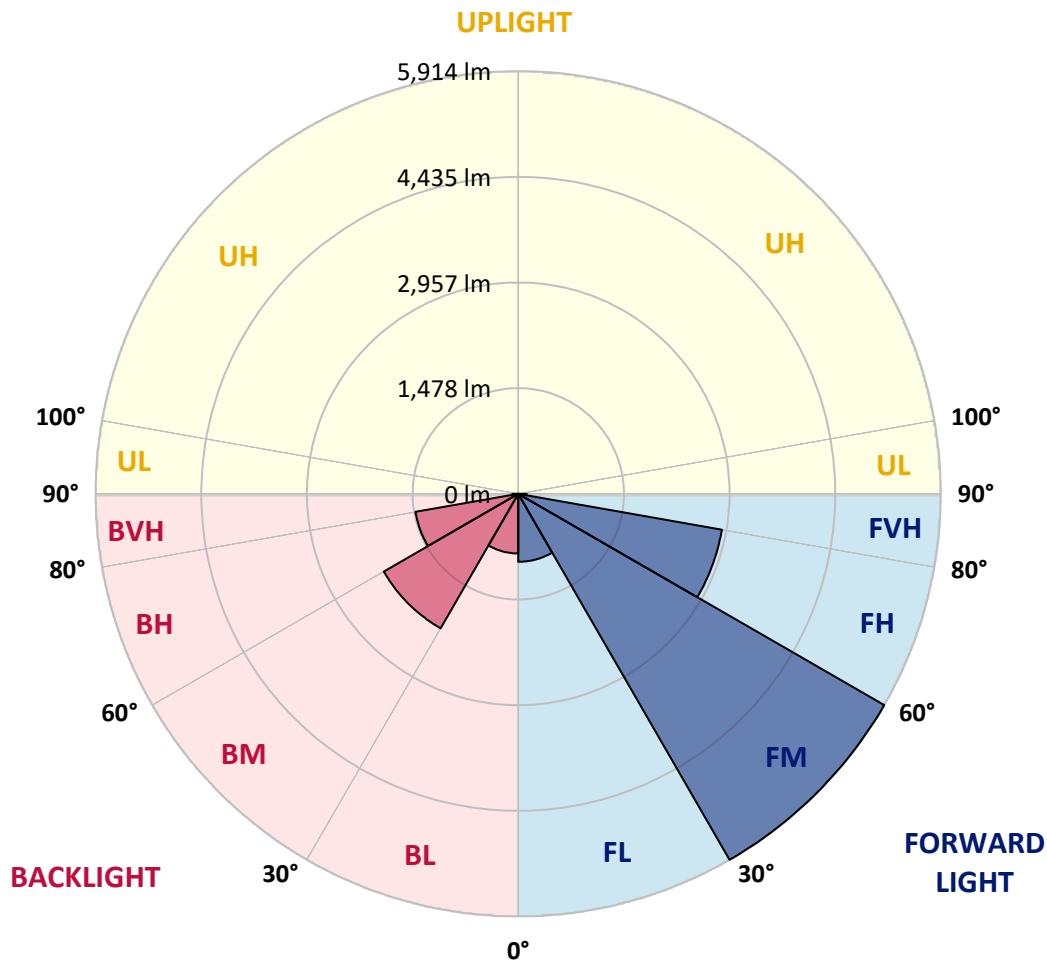
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	951.1	6.6			
FM (30°-60°)	5913.9	41.0			
FH (60°-80°)	2894.2	20.1			G2/5000
FVH (80°-90°)	117.3	0.8			G2/225
BL (0°-30°)	835.0	5.8	B2/1000		
BM (30°-60°)	2173.8	15.1	B2/2500		
BH (60°-80°)	1460.7	10.1	B3/2500		G3/2500
BVH (80°-90°)	83.9	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°	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1
2.5°	1579.6	1575.1	1578.9	1578.9	1580.3	1579.6	1584.9	1586.4	1588.6	1593.2	1593.2
5°	1563.9	1563.1	1569.9	1575.9	1581.9	1587.1	1593.9	1603.6	1605.0	1610.4	1617.0
7.5°	1558.7	1554.2	1564.7	1572.1	1586.4	1599.1	1617.0	1633.5	1640.3	1642.6	1655.3
10°	1599.1	1591.6	1601.4	1605.9	1617.9	1630.6	1651.5	1677.7	1685.2	1694.2	1708.4
12.5°	1668.0	1659.8	1673.9	1680.7	1692.0	1703.1	1717.4	1742.8	1746.6	1763.1	1776.5
15°	1762.3	1752.5	1761.6	1769.8	1788.5	1799.0	1813.2	1837.9	1837.9	1850.6	1860.4
17.5°	1890.3	1877.6	1884.4	1887.3	1899.3	1915.0	1939.0	1960.7	1971.9	1967.4	1954.0
20°	2081.3	2065.5	2065.5	2050.5	2046.0	2058.8	2090.2	2120.1	2132.1	2108.9	2076.0
22.5°	2368.0	2345.5	2332.8	2281.9	2261.7	2263.1	2294.6	2331.3	2341.0	2299.8	2225.7
25°	2732.5	2697.4	2680.2	2605.2	2559.6	2520.0	2544.7	2591.8	2605.2	2554.4	2434.6
27.5°	3097.1	3099.4	3082.9	2993.1	2917.5	2844.9	2832.1	2881.5	2895.7	2838.1	2689.9
30°	3608.4	3555.3	3523.8	3416.0	3308.3	3206.4	3154.0	3174.2	3178.0	3109.1	2936.9
32.5°	4049.4	4035.9	3968.6	3874.2	3735.7	3576.2	3488.7	3456.5	3450.5	3352.5	3148.1
35°	4551.7	4544.2	4473.1	4360.9	4211.1	3989.5	3831.6	3739.5	3732.0	3594.3	3356.9
37.5°	5062.4	5062.4	4992.7	4869.9	4715.0	4437.9	4197.7	4051.6	4027.7	3848.1	3569.6
40°	5469.6	5444.9	5457.6	5406.0	5228.5	4934.3	4604.2	4392.3	4360.1	4144.5	3795.6
42.5°	5700.9	5692.6	5769.0	5826.7	5754.0	5519.0	5051.8	4761.3	4716.4	4470.9	4056.1
45°	5752.6	5743.6	5879.8	6091.0	6192.7	6096.2	5538.5	5149.9	5095.3	4812.3	4335.4
47.5°	5633.5	5615.6	5815.4	6148.6	6475.0	6645.0	6065.5	5571.4	5492.1	5144.7	4622.1
50°	5275.7	5258.5	5560.9	6003.3	6570.0	7017.8	6637.5	6018.4	5897.0	5501.1	4911.8
52.5°	4497.8	4506.1	4980.0	5587.9	6445.1	7249.8	7130.1	6489.3	6343.2	5865.7	5183.6
55°	3503.7	3521.6	4104.1	4773.3	5945.0	7214.7	7466.2	6974.4	6829.2	6208.5	5464.4
57.5°	2508.7	2588.0	3133.8	3796.4	4984.5	6657.0	7539.6	7435.6	7294.8	6582.9	5739.1
60°	1626.1	1640.3	2201.8	2869.6	3795.6	5665.7	7390.6	7785.2	7675.1	6964.7	5968.9
62.5°	1042.1	1051.9	1394.0	2007.2	2731.8	4191.6	6889.0	7937.1	7903.5	7216.9	6189.8
65°	765.9	758.4	936.5	1326.6	1840.2	2585.0	5915.1	7863.7	7930.4	7374.9	6372.4
67.5°	639.3	628.8	716.5	918.6	1355.8	1468.1	4376.5	7386.9	7630.9	7356.9	6506.5
70°	582.4	573.5	626.6	682.0	1057.8	983.0	2206.2	6421.8	6797.7	7152.6	6484.8
72.5°	493.3	477.6	550.2	605.7	822.8	753.9	911.8	4932.8	5391.0	6497.5	6179.3
75°	382.5	372.1	434.2	533.0	618.4	588.5	576.5	2995.4	3495.5	5024.9	5406.0
77.5°	303.2	288.9	345.8	415.5	556.3	443.9	419.9	1290.0	1785.6	3207.9	4045.0
80°	228.4	215.7	262.8	328.6	427.4	334.7	271.7	526.3	673.0	1625.3	2034.1
82.5°	162.5	151.2	183.4	241.1	287.5	300.2	167.0	295.0	331.7	626.6	454.4
85°	104.0	97.3	122.8	151.2	182.7	193.1	101.8	154.3	169.2	258.3	189.4
87.5°	56.9	46.4	65.9	70.4	84.6	77.1	48.7	56.2	60.7	93.6	80.2
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°	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1	1590.1
2.5°	1596.1	1598.4	1605.9	1608.1	1613.4	1620.0	1624.5	1629.0	1629.0	1633.5	1633.5
5°	1617.9	1623.1	1638.8	1647.0	1660.5	1673.9	1682.2	1692.0	1697.9	1700.9	1702.4
7.5°	1659.8	1668.0	1690.4	1704.7	1727.8	1746.6	1759.3	1772.7	1775.8	1784.0	1781.0
10°	1716.7	1726.4	1751.8	1778.8	1806.5	1829.7	1841.6	1851.4	1855.1	1856.7	1852.9
12.5°	1781.8	1796.0	1828.9	1861.9	1891.0	1911.3	1914.3	1912.0	1901.6	1892.6	1892.6
15°	1861.9	1874.6	1911.3	1947.2	1975.7	1979.4	1960.7	1948.7	1936.0	1933.8	1933.8
17.5°	1957.7	1964.4	1998.1	2033.3	2035.5	2022.8	1995.2	1983.9	1971.9	1963.7	1964.4
20°	2069.3	2067.0	2091.0	2106.0	2090.2	2051.3	2009.3	1990.7	1978.7	1968.9	1969.6
22.5°	2202.5	2185.3	2182.3	2178.5	2136.6	2055.0	1998.1	1974.2	1955.5	1942.0	1946.5
25°	2396.4	2330.5	2284.8	2259.4	2165.1	2034.8	1962.2	1909.1	1873.8	1850.6	1859.7
27.5°	2639.0	2528.2	2412.8	2350.7	2165.1	1993.6	1875.3	1789.2	1731.6	1707.6	1719.6
30°	2870.3	2754.3	2584.3	2460.8	2159.9	1926.3	1735.3	1615.6	1548.2	1524.3	1538.4
32.5°	3067.9	2941.4	2766.3	2581.4	2147.1	1816.9	1561.7	1429.2	1364.1	1335.6	1349.8
35°	3251.4	3116.6	2948.9	2713.8	2113.4	1656.7	1370.7	1269.7	1197.1	1151.4	1166.3
37.5°	3439.3	3279.1	3121.8	2833.6	2052.8	1469.5	1224.1	1138.0	1052.6	991.2	1007.7
40°	3643.7	3452.0	3306.8	2904.7	1953.2	1291.4	1110.3	1031.7	941.1	875.9	888.7
42.5°	3882.5	3659.4	3512.7	2941.4	1816.9	1164.9	1036.2	959.0	873.7	820.5	831.0
45°	4131.8	3887.7	3700.6	2940.6	1665.0	1105.8	1012.2	935.8	841.5	786.1	795.1
47.5°	4393.0	4126.5	3863.0	2892.8	1533.2	1114.0	998.7	885.6	781.6	727.6	735.1
50°	4655.0	4387.8	4020.3	2803.0	1477.0	1096.0	948.5	815.3	692.5	643.8	646.9
52.5°	4914.9	4665.5	4155.8	2674.9	1420.1	1029.4	884.2	724.0	655.8	622.1	622.1
55°	5176.1	4940.3	4303.2	2488.5	1278.0	951.5	776.3	689.5	626.6	595.9	593.0
57.5°	5438.1	5257.7	4443.2	2302.0	1099.0	855.7	717.2	647.6	597.4	571.2	566.7
60°	5710.7	5620.8	4587.7	2130.7	922.3	732.9	673.7	613.9	562.9	533.8	531.6
62.5°	5991.4	6020.5	4700.8	1909.8	759.8	658.0	634.9	573.5	524.1	496.3	495.6
65°	6274.3	6406.1	4774.9	1603.6	616.1	586.9	593.0	529.3	479.1	455.2	454.4
67.5°	6487.7	6683.9	4753.8	1213.6	505.3	519.6	540.5	482.9	435.7	417.0	417.8
70°	6511.7	6650.9	4547.2	831.0	423.0	453.7	482.2	437.2	388.6	375.0	375.9
72.5°	6192.7	6201.8	3971.6	542.7	357.8	398.3	420.8	390.8	343.6	330.2	329.4
75°	5356.5	5129.0	2915.9	357.8	299.5	342.1	363.1	342.1	296.4	299.5	288.9
77.5°	4058.4	3632.4	1770.6	254.5	250.0	287.5	315.9	300.9	262.0	294.2	259.0
80°	2091.0	1965.2	789.9	190.1	197.6	229.8	259.7	240.4	207.4	197.6	180.4
82.5°	479.1	557.0	311.4	136.2	143.0	165.4	198.4	180.4	148.9	125.8	124.2
85°	167.7	183.4	137.8	85.4	83.8	103.3	134.8	120.5	101.1	80.9	85.4
87.5°	53.2	69.6	51.7	34.4	36.0	46.4	62.1	56.9	47.2	30.6	32.2
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)