

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: P964077

Luminaire Tested: **NAV-SB3B-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-740-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14369.5 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 109.2
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

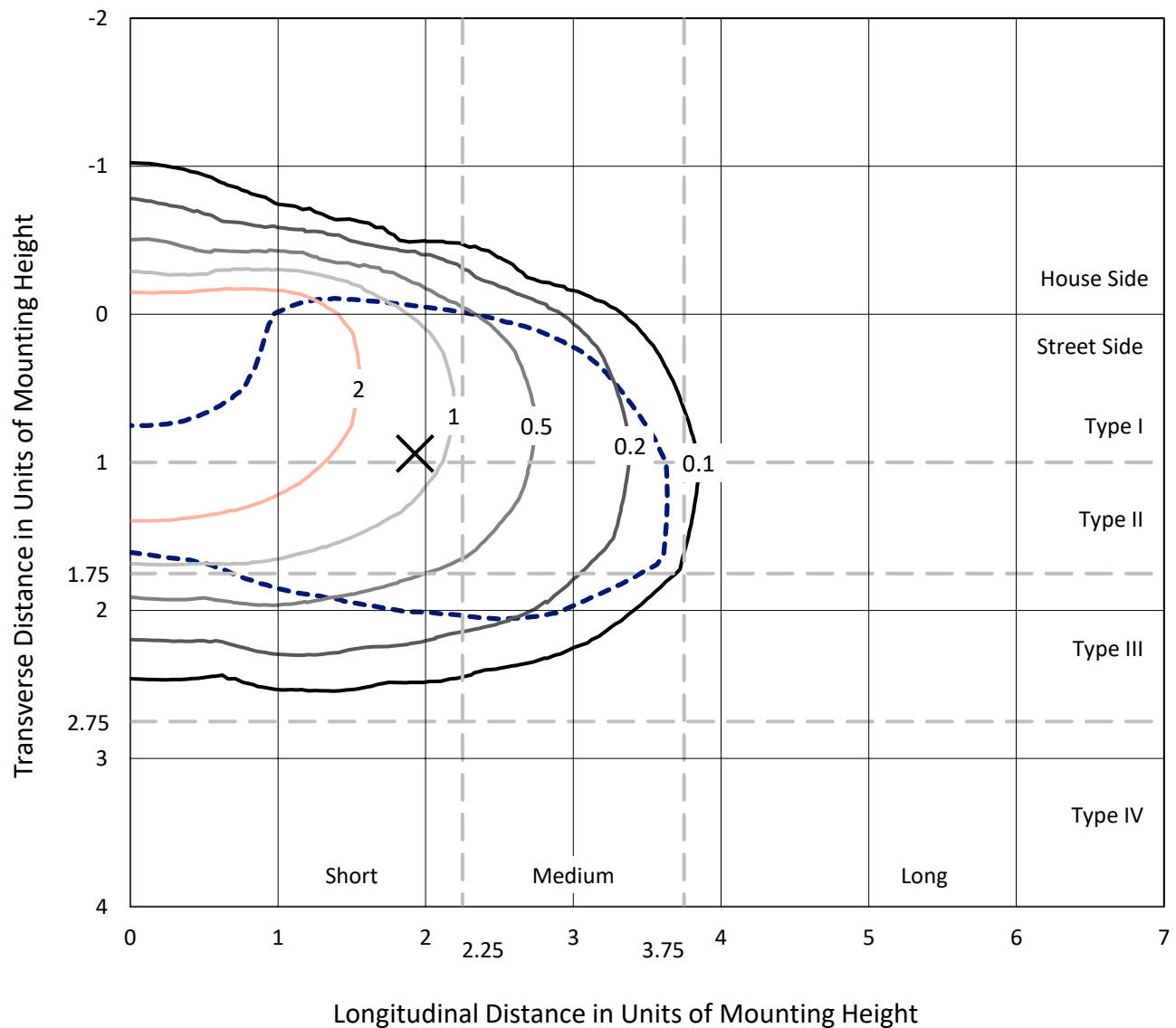


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Iso-Footcandle Lines of Horizontal Illumination

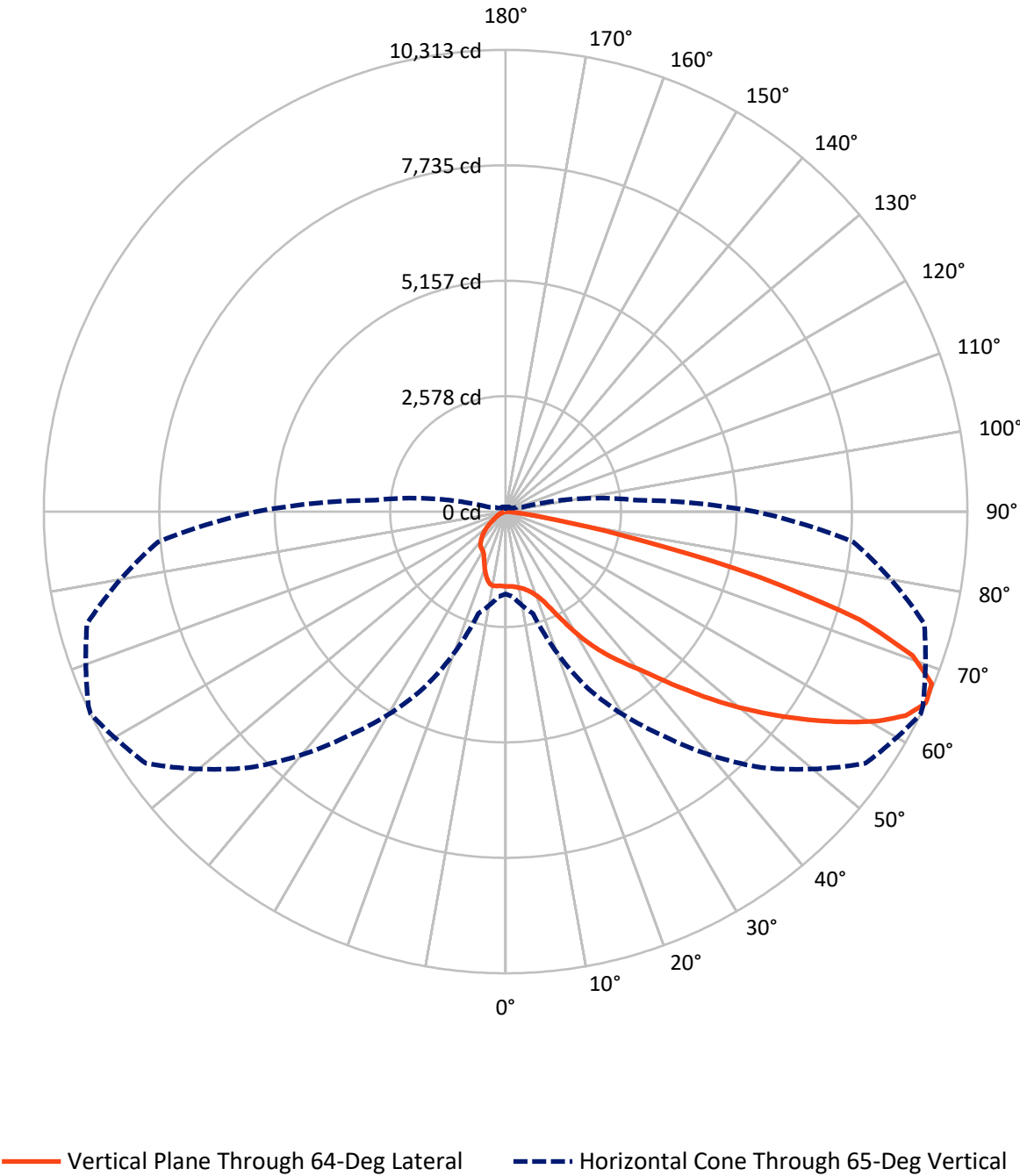
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	1921.6	0.0	1921.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	12447.8	0.0	12447.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	14369.5	0.0	14369.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	1.1
10°-20°	418.2	2.9
20°-30°	792.5	5.5
30°-40°	1603.6	11.2
40°-50°	2731.8	19.0
50°-60°	3715.1	25.9
60°-70°	3488.6	24.3
70°-80°	1397.7	9.7
80°-90°	67.7	0.5
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°	14369.5	100.0
0°-180°	14369.5	100.0

Coefficient of Utilization



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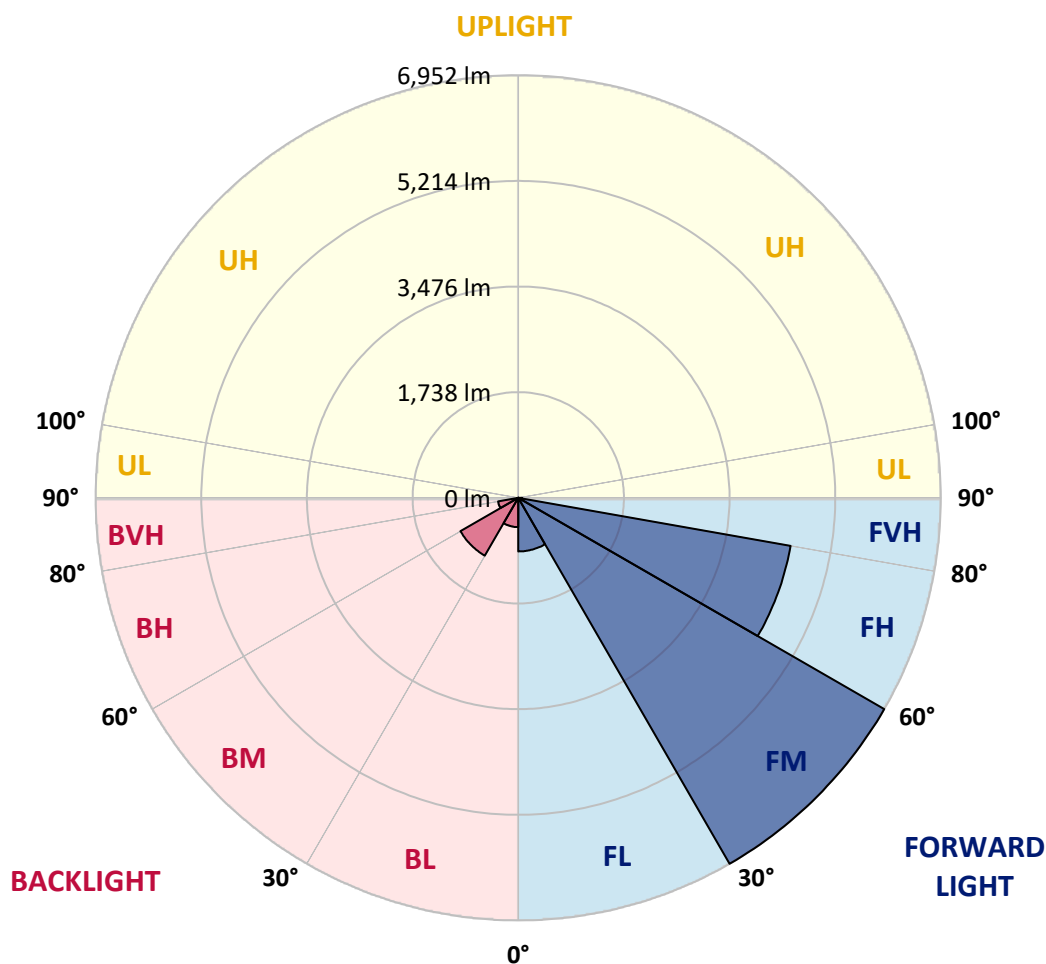
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	882.5	6.1			
FM	(30°-60°)	6951.9	48.4			
FH	(60°-80°)	4549.0	31.7			G2/5000
FVH	(80°-90°)	64.4	0.4			G1/100
BL	(0°-30°)	482.5	3.4	B1/500		
BM	(30°-60°)	1098.6	7.6	B2/2500		
BH	(60°-80°)	337.3	2.3	B1/500		G1/500
BVH	(80°-90°)	3.3	0.0			G0/10
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°	64°	65°	75°	85°
0°	1671.4	1671.4	1671.4	1671.4	1671.4	1671.4	1671.4	1671.4	1671.4	1671.4	1671.4
2.5°	1665.5	1677.1	1674.2	1671.4	1670.3	1672.3	1673.2	1672.3	1672.3	1672.3	1673.2
5°	1633.7	1643.4	1643.4	1650.1	1659.8	1671.4	1680.0	1681.9	1683.9	1686.7	1685.8
7.5°	1573.1	1580.8	1586.6	1608.7	1632.8	1663.6	1689.6	1703.1	1705.0	1715.6	1719.4
10°	1531.7	1541.3	1550.9	1574.0	1608.7	1655.0	1699.2	1732.0	1736.9	1761.9	1773.5
12.5°	1529.7	1539.3	1551.8	1577.0	1617.3	1666.5	1720.5	1767.6	1776.3	1812.9	1837.0
15°	1549.9	1561.5	1573.1	1603.9	1647.3	1706.9	1764.7	1823.5	1832.2	1884.3	1910.2
17.5°	1591.4	1606.8	1615.4	1646.3	1692.5	1759.0	1835.1	1902.5	1910.2	1970.9	2003.7
20°	1673.2	1691.6	1694.4	1719.4	1764.7	1836.1	1926.6	2010.4	2020.1	2089.4	2126.0
22.5°	1842.7	1868.8	1845.7	1858.2	1898.6	1969.9	2068.2	2174.1	2187.7	2266.7	2299.4
25°	2141.4	2178.0	2118.3	2097.0	2114.5	2188.6	2311.9	2445.9	2461.2	2524.8	2541.2
27.5°	2728.0	2680.9	2590.3	2501.7	2449.6	2492.1	2630.8	2796.4	2815.7	2877.4	2858.1
30°	3372.5	3331.0	3208.8	3012.3	2889.0	2882.2	3010.3	3195.2	3217.4	3276.2	3217.4
32.5°	4017.9	3978.4	3845.5	3603.7	3389.9	3283.9	3372.5	3577.7	3589.2	3626.9	3540.1
35°	4652.7	4612.3	4479.4	4231.7	3968.8	3727.9	3710.6	3941.8	3945.6	3985.2	3856.0
37.5°	5291.4	5257.6	5116.1	4873.4	4614.1	4281.8	4121.0	4286.7	4291.5	4330.0	4196.1
40°	5747.1	5761.5	5664.2	5476.4	5253.8	4890.7	4581.4	4653.7	4624.8	4689.4	4609.3
42.5°	6138.1	6167.0	6082.2	5987.8	5858.8	5539.0	5151.8	5139.1	5092.9	5127.7	5044.7
45°	6476.3	6500.3	6424.2	6402.0	6399.2	6174.7	5775.0	5699.8	5635.2	5628.6	5529.4
47.5°	6600.5	6646.7	6679.5	6753.6	6898.1	6803.7	6419.4	6302.8	6230.6	6177.6	6020.6
50°	6647.7	6696.8	6808.6	7024.3	7366.4	7406.8	7060.9	6929.9	6841.4	6745.0	6513.8
52.5°	6584.1	6671.8	6822.1	7185.2	7681.4	7890.3	7676.5	7561.8	7460.8	7303.7	6960.8
55°	6209.4	6297.1	6604.4	7183.3	7838.4	8229.4	8258.3	8207.3	8093.6	7846.1	7322.0
57.5°	5419.5	5549.6	6036.0	6938.6	7835.4	8521.3	8828.6	8865.2	8738.0	8383.6	7606.2
60°	4325.2	4501.5	5094.9	6396.3	7593.7	8679.3	9328.5	9511.6	9376.7	8913.4	7836.4
62.5°	3018.0	3222.2	3783.8	5546.7	7040.7	8565.6	9693.6	10031.8	9929.7	9387.4	7925.0
65°	1840.9	1906.4	2359.1	4364.7	6100.6	8089.8	9806.4	10313.0	10279.3	9677.2	7794.0
67.5°	1226.3	1281.1	1411.2	2993.0	4735.6	7139.0	9536.6	10263.9	10273.6	9630.1	7314.3
70°	738.8	786.1	870.8	1740.7	3069.1	5650.7	8701.4	9637.8	9693.6	8999.1	6404.9
72.5°	304.4	336.2	413.3	788.9	1589.5	3586.4	6929.0	8274.7	8404.8	7566.7	4915.7
75°	172.4	188.8	242.7	396.0	689.7	1671.4	4197.1	5874.2	6065.8	5215.3	2957.3
77.5°	114.6	122.4	157.0	256.2	388.2	570.3	1793.6	3060.3	3426.5	2848.5	1280.2
80°	77.1	83.8	107.9	171.5	252.4	244.7	571.2	1133.8	1394.8	978.7	312.1
82.5°	52.0	53.0	77.1	112.7	159.9	118.5	168.6	352.6	443.1	283.2	118.5
85°	29.8	28.9	56.8	65.5	71.2	49.1	51.0	106.0	138.7	119.4	67.4
87.5°	3.9	5.7	22.1	17.3	9.6	10.6	10.6	18.3	27.0	28.9	14.5
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°	1671.4	1671.4	1671.4	1671.4	1671.4	1671.4	1671.4	1671.4	1671.4	1671.4	1671.4
2.5°	1673.2	1672.3	1669.4	1666.5	1659.8	1655.9	1657.8	1655.9	1655.0	1655.9	1659.8
5°	1685.8	1682.8	1675.2	1665.5	1652.1	1635.7	1625.0	1609.7	1595.2	1586.6	1588.4
7.5°	1719.4	1716.6	1706.0	1679.1	1635.7	1567.3	1504.7	1449.8	1408.4	1384.3	1385.2
10°	1773.5	1768.6	1752.2	1692.5	1578.8	1429.6	1305.2	1202.2	1134.8	1103.0	1100.1
12.5°	1837.0	1831.3	1802.4	1680.0	1471.0	1237.8	1066.4	951.7	889.1	861.2	858.3
15°	1912.1	1904.4	1847.6	1620.2	1313.9	1025.9	868.9	783.2	742.7	717.7	718.6
17.5°	2005.6	1992.1	1881.3	1530.6	1143.4	864.1	747.5	683.0	647.3	623.3	621.4
20°	2127.0	2104.8	1908.2	1423.7	986.5	762.0	665.6	611.7	584.8	563.5	559.6
22.5°	2296.5	2264.7	1941.0	1308.2	875.7	691.7	605.0	565.5	543.2	519.3	515.4
25°	2506.5	2468.9	1981.5	1201.2	799.5	631.0	560.7	527.9	501.8	474.0	471.1
27.5°	2800.3	2732.9	2029.7	1113.6	734.0	578.9	520.2	483.6	453.7	430.6	425.8
30°	3127.8	3017.1	2072.0	1060.6	674.3	530.7	467.2	430.6	402.6	386.3	383.3
32.5°	3438.1	3287.7	2100.0	1037.5	620.3	475.9	409.4	369.9	348.7	343.9	346.8
35°	3730.9	3532.5	2097.0	1015.4	572.2	421.0	352.6	312.1	295.7	298.6	298.6
37.5°	4068.0	3793.4	2076.9	980.6	532.7	370.8	303.4	267.8	253.4	254.3	258.2
40°	4460.1	4095.0	2064.4	915.1	489.3	324.6	263.0	234.1	223.4	219.7	218.6
42.5°	4878.2	4386.9	2066.3	840.9	435.4	283.2	235.0	210.9	201.3	198.4	197.5
45°	5298.1	4665.3	2069.2	763.9	378.5	251.4	214.8	194.5	188.8	184.9	184.9
47.5°	5693.1	4902.2	2015.3	681.0	322.7	227.3	198.4	184.9	180.1	175.3	175.3
50°	6061.0	5060.2	1885.2	584.8	278.4	208.1	185.9	176.3	171.5	166.7	166.7
52.5°	6347.2	5085.2	1670.3	485.5	247.5	193.6	178.2	169.5	163.8	159.0	158.0
55°	6474.3	4928.2	1365.0	393.0	223.4	181.1	170.5	161.8	155.1	150.3	149.3
57.5°	6441.6	4597.8	1064.5	316.0	200.4	168.6	160.8	155.1	147.4	139.7	138.7
60°	6280.7	4155.7	802.5	263.0	179.2	155.1	150.3	145.4	134.9	123.3	121.4
62.5°	6002.3	3599.8	572.2	217.7	156.0	139.7	137.8	133.9	118.5	97.3	95.3
65°	5576.5	2924.5	385.3	181.1	133.9	122.4	123.3	116.5	96.4	72.3	70.3
67.5°	4954.2	2138.6	246.6	148.3	111.7	102.1	103.1	99.2	81.9	61.6	58.7
70°	4161.4	1416.0	160.8	112.7	89.6	79.0	84.8	85.7	69.4	50.1	48.2
72.5°	3050.8	836.1	112.7	83.8	65.5	54.9	69.4	71.2	55.9	37.6	35.7
75°	1738.7	396.9	84.8	60.7	40.5	38.5	53.9	53.9	38.5	25.0	23.2
77.5°	730.2	165.6	59.8	39.5	23.2	22.1	36.6	33.7	19.3	11.6	11.6
80°	210.9	74.2	31.8	19.3	9.6	8.7	14.5	10.6	4.8	1.9	1.9
82.5°	82.8	32.8	12.5	7.7	3.9	3.9	1.9	0.0	0.0	0.0	0.0
85°	49.1	13.5	5.7	2.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	2.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)