

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: P883080

Luminaire Tested: **NAV-SB3B-730-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883080  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3B-730-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

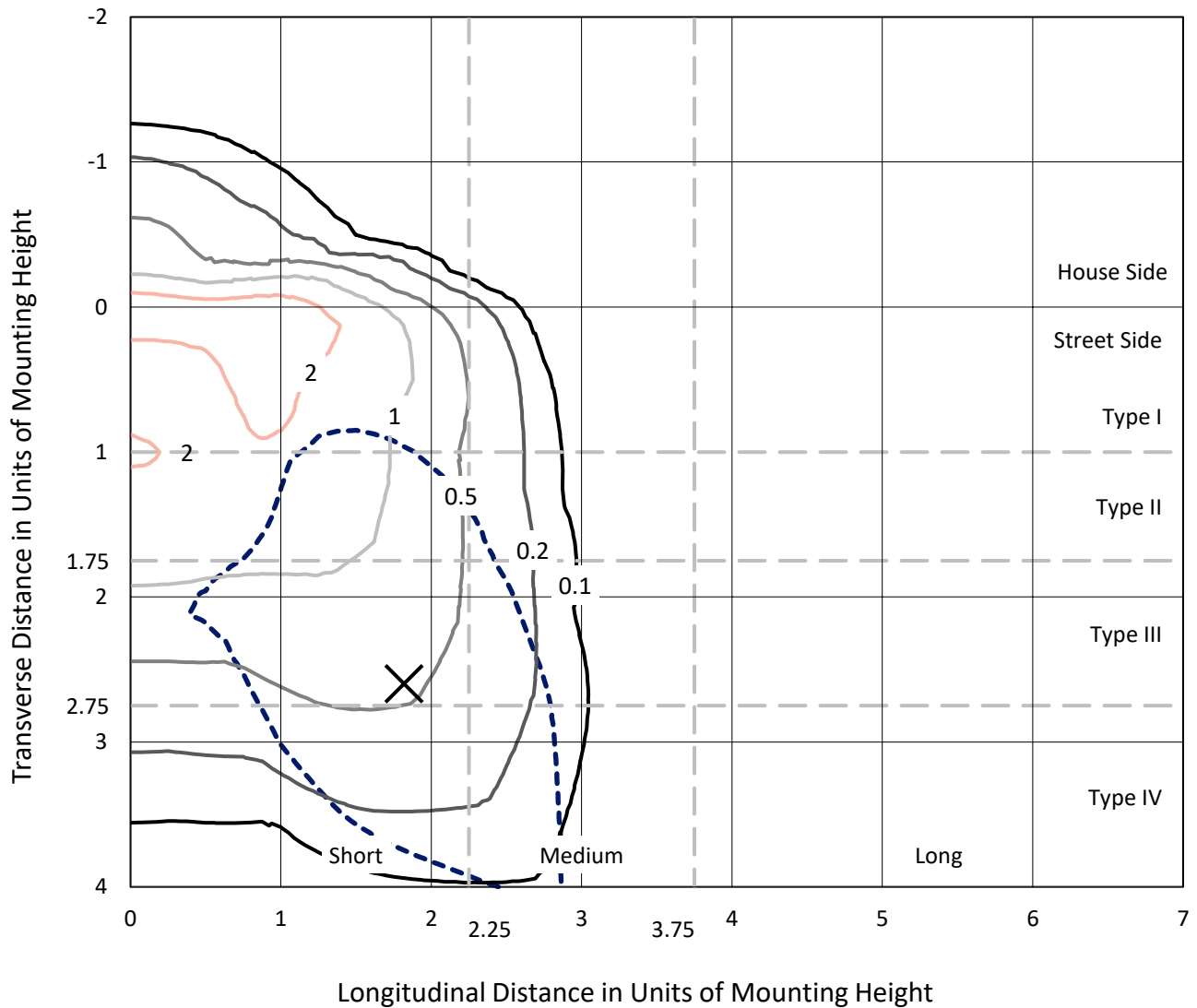
Lumens per Lamp: N/A  
Luminaire Lumens: 12588 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): 120.0  
Input Current (Ain): 0.919  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 8.657  
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

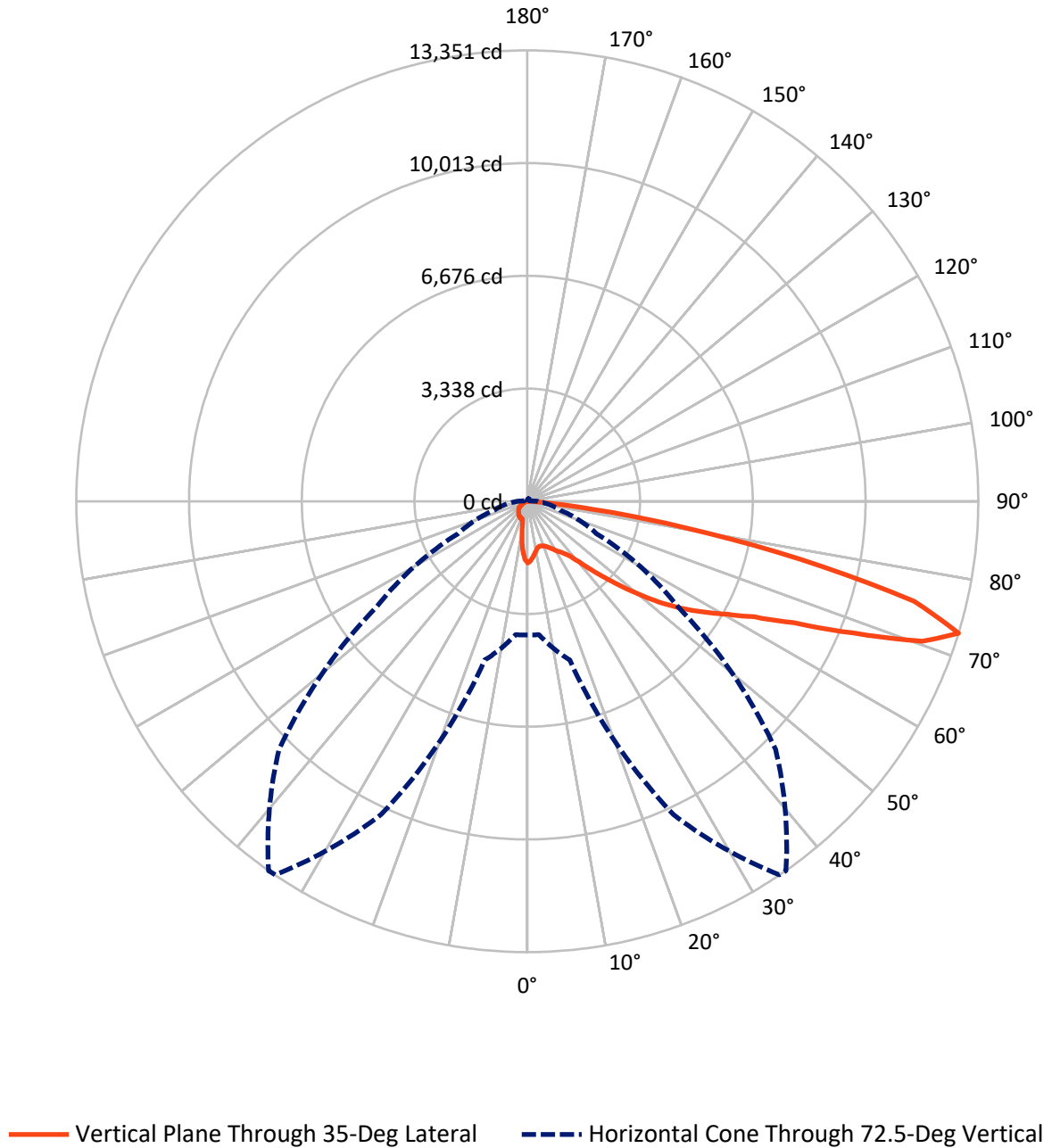
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1416.7	0.0	1416.7
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	11171.3	0.0	11171.3
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	12588.0	0.0	12588.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.9	1.2
10°-20°	350.7	2.8
20°-30°	569.7	4.5
30°-40°	950.6	7.6
40°-50°	1798.5	14.3
50°-60°	2857.9	22.7
60°-70°	3535.4	28.1
70°-80°	2197.6	17.5
80°-90°	177.6	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°	12588.0	100.0
0°-180°	12588.0	100.0

**Coefficient of Utilization**



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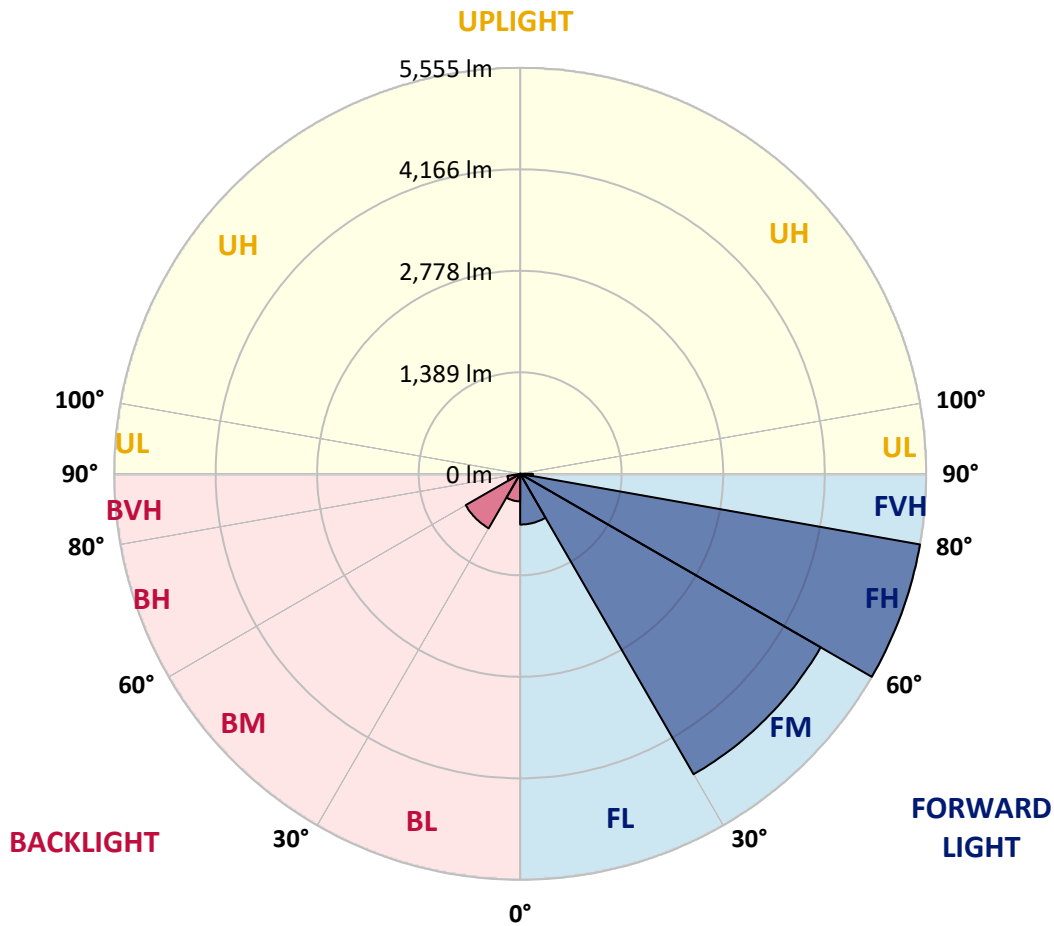
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	693.9	5.5			
FM (30°-60°)	4746.9	37.7			
FH (60°-80°)	5555.2	44.1			G3/7500
FVH (80°-90°)	175.2	1.4			G2/225
BL (0°-30°)	376.4	3.0	B1/500		
BM (30°-60°)	860.1	6.8	B1/1000		
BH (60°-80°)	177.8	1.4	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4
2.5°	1743.3	1758.0	1760.8	1765.4	1765.4	1770.9	1780.2	1793.1	1814.3	1825.3	1832.7
5°	1606.7	1617.8	1631.7	1642.7	1663.9	1666.7	1702.7	1737.7	1786.6	1823.5	1849.3
7.5°	1469.3	1482.2	1500.7	1527.4	1555.1	1563.4	1617.8	1676.8	1754.3	1823.5	1866.9
10°	1372.5	1373.4	1390.0	1416.7	1461.0	1471.2	1537.6	1621.5	1718.4	1812.4	1883.5
12.5°	1318.0	1324.5	1331.9	1352.2	1394.6	1401.1	1472.1	1570.8	1682.4	1806.0	1902.8
15°	1318.0	1322.7	1327.3	1337.4	1371.5	1377.1	1439.8	1538.5	1663.9	1808.7	1934.2
17.5°	1331.9	1339.3	1335.6	1347.6	1383.5	1387.2	1442.6	1529.3	1663.0	1826.3	1982.1
20°	1365.1	1370.6	1363.2	1370.6	1406.6	1414.0	1471.2	1546.8	1678.7	1856.7	2042.1
22.5°	1417.7	1420.4	1402.9	1408.4	1445.3	1454.6	1521.0	1596.6	1716.5	1905.6	2122.3
25°	1484.1	1489.6	1462.9	1469.3	1504.4	1515.4	1592.0	1671.3	1776.5	1972.9	2224.7
27.5°	1560.6	1563.4	1540.3	1539.4	1584.6	1600.3	1677.8	1763.5	1856.7	2057.8	2353.9
30°	1648.3	1656.6	1634.4	1630.7	1687.9	1700.8	1777.4	1877.0	1974.8	2185.1	2537.4
32.5°	1717.4	1723.9	1711.0	1720.2	1778.3	1788.5	1898.2	2037.5	2160.2	2365.8	2787.4
35°	1817.0	1820.7	1791.2	1807.8	1874.2	1900.1	2063.3	2262.5	2393.5	2592.7	3113.9
37.5°	2177.7	2177.7	2052.2	1970.2	2033.8	2056.9	2289.3	2545.7	2681.3	2897.1	3525.3
40°	2676.7	2668.4	2484.8	2317.0	2308.7	2353.9	2611.2	2902.7	3053.0	3262.4	3988.3
42.5°	3208.9	3196.0	2946.0	2780.0	2752.3	2768.0	2982.9	3342.6	3495.7	3707.9	4486.3
45°	3681.1	3677.4	3448.7	3225.5	3175.7	3225.5	3446.9	3857.3	3967.1	4190.3	4983.5
47.5°	4076.8	4076.8	3909.9	3764.1	3738.3	3767.8	4075.0	4428.2	4418.1	4704.0	5467.7
50°	4532.5	4528.8	4370.1	4307.4	4334.2	4375.7	4798.1	5029.6	4884.8	5208.6	5900.3
52.5°	4851.6	4873.7	4819.3	4809.2	4945.7	5017.6	5532.3	5618.1	5302.6	5687.3	6224.1
55°	5104.3	5130.2	5192.9	5263.9	5526.8	5620.8	6243.4	6176.1	5652.2	6102.3	6410.4
57.5°	5462.2	5425.3	5522.2	5662.4	6087.6	6201.0	6932.4	6702.8	5933.5	6439.0	6430.7
60°	5896.6	5902.2	5918.8	6095.9	6647.4	6793.2	7611.3	7200.8	6114.3	6645.6	6205.6
62.5°	6418.7	6427.0	6461.1	6733.2	7399.2	7536.6	8334.4	7608.5	6197.3	6587.5	5624.5
65°	6382.7	6417.8	6798.7	7729.4	8542.0	8677.5	9178.4	7894.5	6071.9	6056.2	4579.5
67.5°	5814.5	5871.7	6509.1	8919.2	10264.9	10416.2	10198.5	7950.7	5530.5	4709.6	2987.5
70°	5069.3	5089.6	5856.0	9989.1	12260.0	12413.1	11111.6	7331.8	4196.7	2626.9	1338.3
72.5°	3958.8	3963.4	4862.7	10237.2	13342.8	13351.1	10395.0	5442.8	2257.0	1009.1	464.9
75°	2827.9	2800.3	3256.8	8302.1	11738.8	11832.9	7793.0	2553.1	862.4	476.9	231.5
77.5°	1516.4	1546.8	1842.9	4923.5	8109.4	8269.9	4252.1	736.0	439.0	324.7	153.1
80°	468.6	494.4	755.4	2254.2	4593.3	4690.2	1576.3	327.4	306.2	231.5	100.5
82.5°	147.6	153.1	352.3	947.3	1906.5	1950.8	456.6	185.4	209.4	153.1	59.0
85°	42.4	43.4	156.8	353.3	471.3	480.5	128.2	71.9	119.9	95.0	30.4
87.5°	4.6	14.8	59.0	59.0	41.5	40.6	13.8	15.7	34.1	12.0	5.5
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°	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4	1824.4
2.5°	1828.1	1829.0	1817.0	1796.8	1774.6	1756.2	1733.1	1714.7	1701.7	1698.1	1704.5
5°	1841.0	1834.6	1800.4	1738.6	1664.9	1601.2	1530.2	1473.9	1437.0	1421.4	1426.9
7.5°	1860.4	1841.9	1767.2	1645.5	1504.4	1378.9	1251.6	1152.9	1090.2	1058.9	1063.5
10°	1877.0	1840.1	1711.9	1510.8	1295.0	1105.0	933.4	814.4	748.0	716.7	717.6
12.5°	1892.7	1839.2	1640.0	1351.3	1058.9	826.4	666.9	607.8	589.4	582.9	581.1
15°	1922.2	1841.9	1549.6	1168.6	823.7	624.4	566.3	565.4	569.1	567.2	566.3
17.5°	1962.8	1844.7	1447.2	974.9	635.5	550.6	547.9	556.2	561.7	558.9	558.0
20°	2015.4	1855.8	1338.3	783.1	546.0	532.2	538.7	546.0	550.6	546.0	545.1
22.5°	2089.1	1875.2	1219.4	629.0	517.4	521.1	526.7	535.0	539.6	533.1	532.2
25°	2179.5	1905.6	1102.2	547.0	503.6	508.2	516.5	525.7	531.3	524.8	523.9
27.5°	2296.7	1954.5	994.3	528.5	489.8	492.5	504.5	518.4	525.7	517.4	517.4
30°	2466.4	2034.7	901.1	536.8	481.5	475.0	491.6	511.0	519.3	511.9	511.0
32.5°	2691.4	2148.2	844.0	549.7	477.8	454.7	470.4	495.3	509.1	504.5	504.5
35°	2986.6	2320.7	821.8	564.5	475.0	433.5	444.6	471.3	495.3	499.9	499.9
37.5°	3344.5	2560.5	828.3	570.9	466.7	416.0	421.5	444.6	475.9	490.7	494.4
40°	3751.2	2839.9	865.2	564.5	457.5	401.2	402.1	419.7	447.3	469.5	476.9
42.5°	4170.9	3166.5	933.4	540.5	449.2	388.3	385.5	397.5	416.0	431.7	438.1
45°	4570.3	3502.2	1000.8	507.3	439.0	375.4	368.9	373.6	377.2	383.7	387.4
47.5°	4918.9	3738.3	981.4	476.9	425.2	360.6	349.6	347.7	336.7	335.7	334.8
50°	5159.7	3790.0	871.6	446.4	404.9	344.0	326.5	315.4	296.1	286.9	287.8
52.5°	5236.2	3586.1	712.1	416.0	371.7	321.9	297.0	279.5	255.5	247.2	246.3
55°	5134.8	3186.7	569.1	379.1	325.6	292.4	264.7	241.7	222.3	212.1	212.1
57.5°	4886.7	2678.5	450.1	335.7	276.7	259.2	231.5	208.5	191.9	181.7	179.9
60°	4475.3	2127.0	356.0	284.1	236.1	223.2	194.6	179.9	165.1	153.1	150.3
62.5°	3850.8	1518.2	279.5	225.1	197.4	182.6	166.0	155.0	137.4	120.8	118.1
65°	3005.0	928.8	215.8	165.1	158.6	151.3	141.1	131.0	109.8	93.2	90.4
67.5°	1895.4	440.0	154.0	124.5	125.4	121.8	117.1	108.8	93.2	78.4	76.6
70°	834.7	213.1	101.5	95.0	93.2	93.2	96.8	94.1	79.3	65.5	62.7
72.5°	284.1	114.4	75.6	71.9	67.3	66.4	81.2	78.4	63.6	50.7	48.0
75°	148.5	76.6	55.3	51.7	40.6	48.9	64.6	60.9	45.2	33.2	30.4
77.5°	96.8	54.4	37.8	33.2	23.1	32.3	48.0	42.4	26.7	16.6	14.8
80°	60.9	36.0	22.1	15.7	11.1	17.5	25.8	18.4	10.1	3.7	2.8
82.5°	32.3	18.4	8.3	5.5	4.6	5.5	6.5	4.6	1.8	0.0	0.0
85°	12.9	6.5	2.8	1.8	0.9	0.0	1.8	0.9	0.0	0.0	0.0
87.5°	4.6	0.9	0.0	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)