

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: P966572

Luminaire Tested: **NAV-SB4C-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-722-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25261.1 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

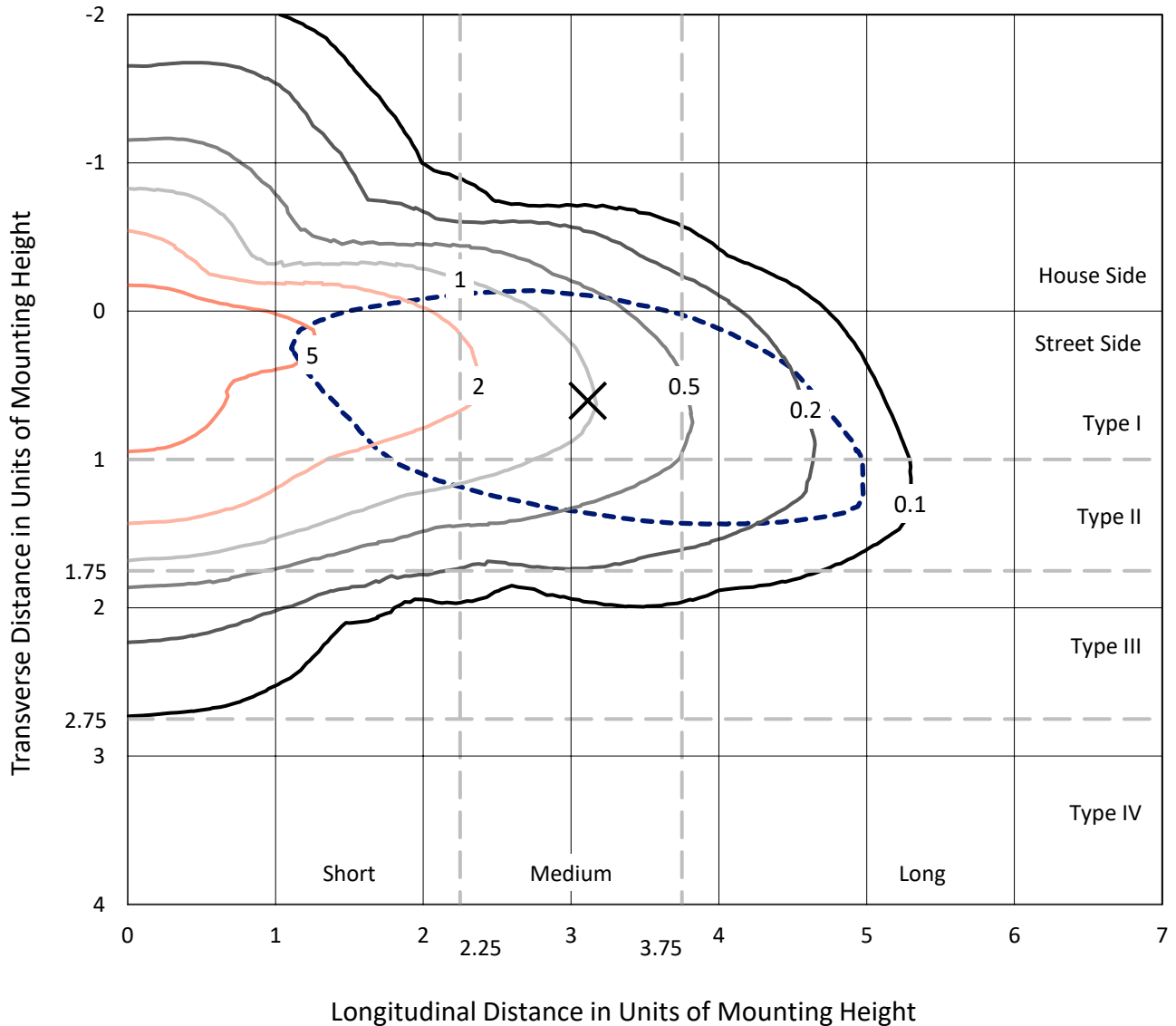
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

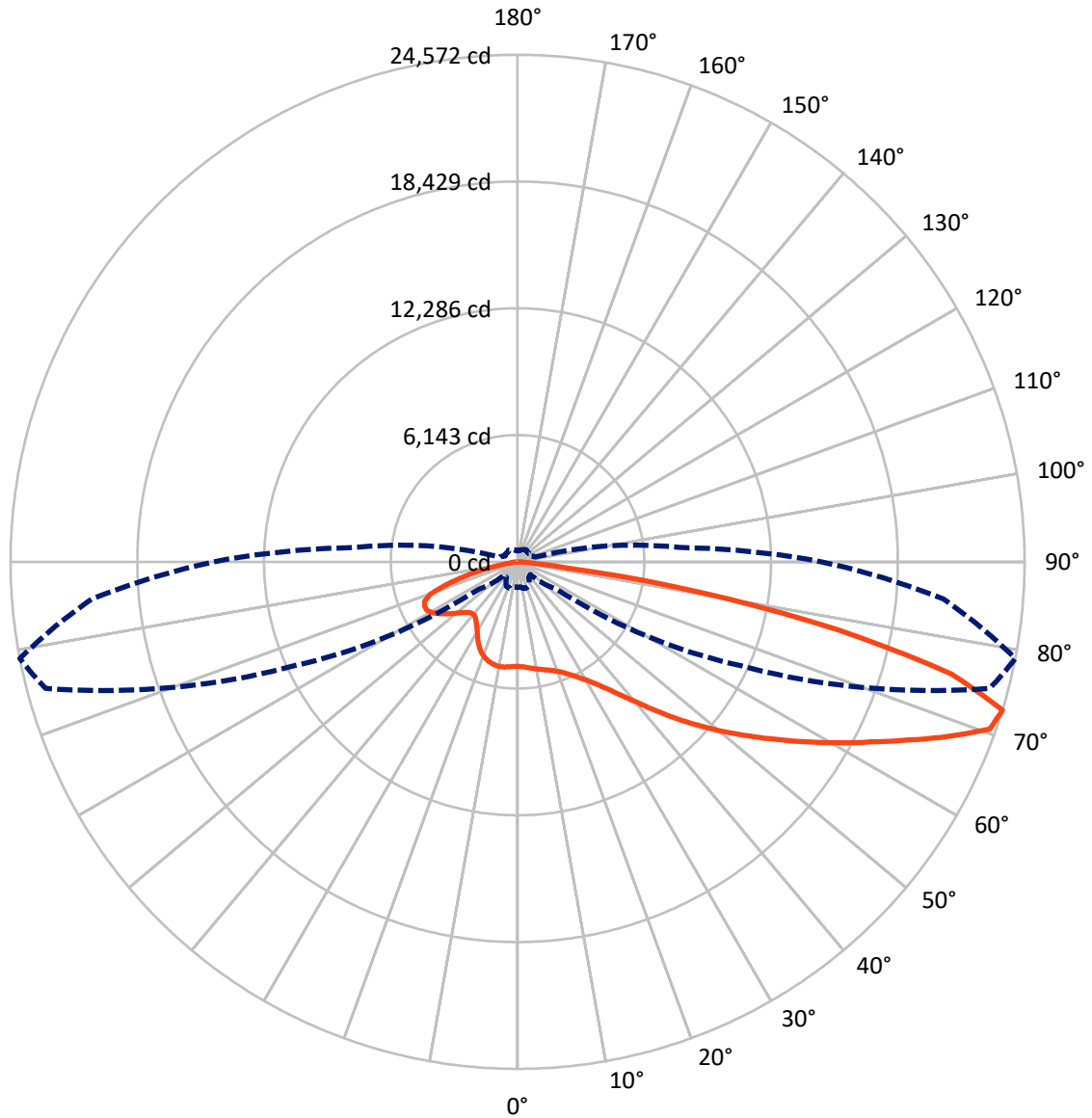
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5558.8	0.0	5558.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	19702.3	0.0	19702.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	25261.1	0.0	25261.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.3	1.8
10°-20°	1203.4	4.8
20°-30°	1941.9	7.7
30°-40°	2914.5	11.5
40°-50°	4134.3	16.4
50°-60°	5221.1	20.7
60°-70°	5302.7	21.0
70°-80°	3614.0	14.3
80°-90°	468.9	1.9
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°	25261.1	100.0
0°-180°	25261.1	100.0

Coefficient of Utilization

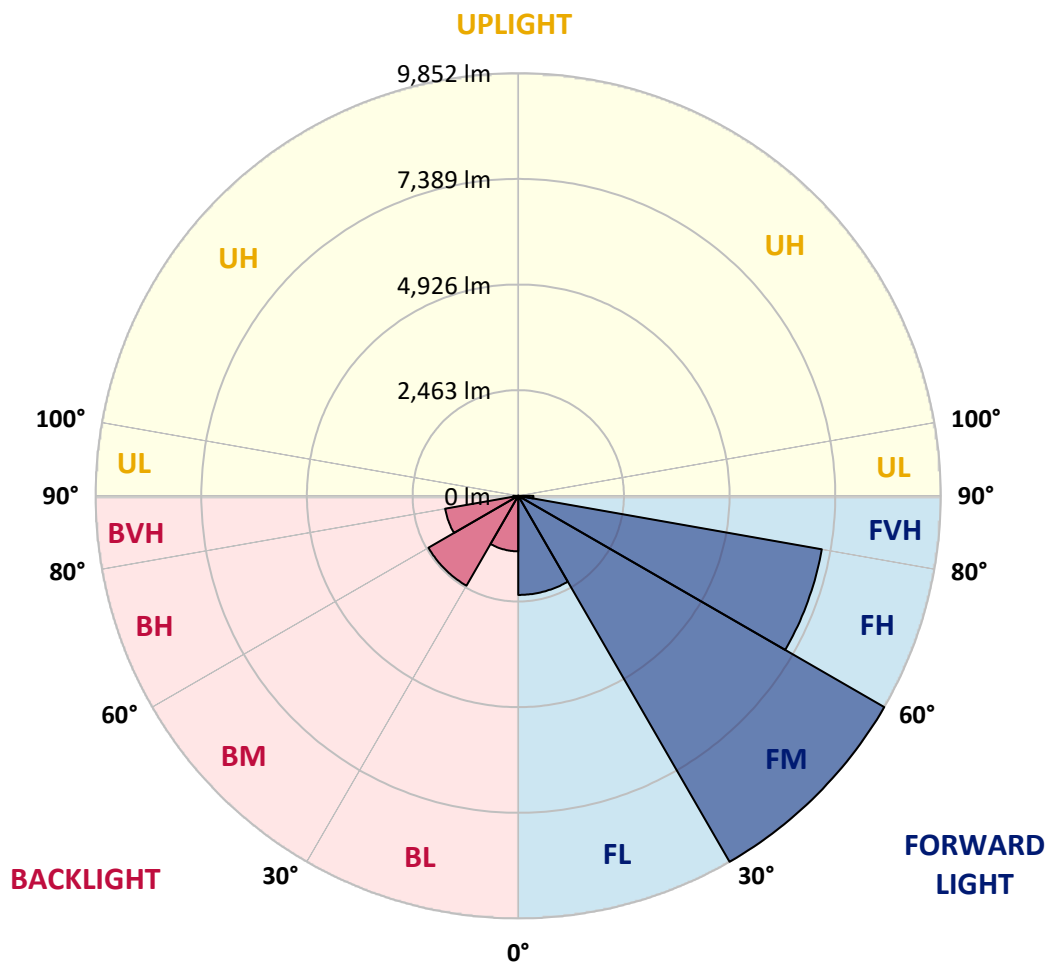


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2310.8	9.1			
FM (30°-60°)	9852.4	39.0			
FH (60°-80°)	7185.9	28.4			G3/7500
FVH (80°-90°)	353.2	1.4			G3/500
BL (0°-30°)	1294.8	5.1	B3/2500		
BM (30°-60°)	2417.5	9.6	B2/2500		
BH (60°-80°)	1730.8	6.9	B3/2500		G3/2500
BVH (80°-90°)	115.7	0.5			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5070.9	5070.9	5070.9	5070.9	5070.9	5070.9	5070.9	5070.9	5070.9	5070.9	5070.9
2.5°	5073.6	5049.6	5064.2	5058.9	5065.5	5073.6	5076.3	5080.3	5093.6	5092.3	5091.0
5°	5062.9	5038.9	5058.9	5052.2	5069.5	5088.3	5104.3	5119.1	5140.4	5149.8	5136.4
7.5°	5040.2	5024.1	5044.2	5064.2	5096.3	5124.4	5147.1	5180.5	5211.2	5216.5	5226.0
10°	4907.9	4895.9	4942.7	4994.7	5083.0	5159.1	5208.5	5247.3	5280.7	5286.0	5299.5
12.5°	4770.2	4755.6	4807.7	4878.5	5021.5	5159.1	5263.4	5314.1	5343.5	5360.9	5380.9
15°	4747.6	4735.5	4764.9	4826.4	4945.3	5123.1	5300.8	5394.3	5419.7	5439.7	5447.8
17.5°	4857.2	4834.4	4846.4	4867.8	4937.3	5089.6	5330.2	5485.2	5523.9	5545.2	5545.2
20°	5111.1	5079.0	5060.2	5017.5	5005.5	5095.0	5327.4	5594.8	5645.5	5672.2	5678.9
22.5°	5449.1	5427.7	5387.6	5279.4	5161.8	5160.5	5378.3	5735.1	5829.9	5855.3	5839.2
25°	5858.0	5825.9	5775.2	5628.2	5402.3	5290.0	5463.8	5914.0	6073.1	6079.8	6033.0
27.5°	6328.3	6280.2	6210.7	6017.0	5712.3	5493.2	5594.8	6119.9	6352.3	6349.7	6253.5
30°	6824.0	6776.0	6702.5	6467.2	6083.8	5767.1	5776.5	6341.7	6683.7	6669.1	6504.6
32.5°	7186.2	7150.1	7135.3	6953.7	6511.4	6090.4	5984.9	6587.6	7092.6	7079.3	6849.5
35°	7464.0	7417.3	7434.7	7342.5	6977.7	6452.6	6240.1	6880.2	7589.7	7588.4	7302.4
37.5°	7739.4	7698.0	7712.6	7651.1	7409.3	6912.2	6551.5	7238.2	8205.6	8235.1	7850.3
40°	7990.6	7946.4	8005.2	7947.7	7744.7	7401.3	6905.5	7643.1	8919.2	8975.3	8513.0
42.5°	8141.6	8106.8	8204.3	8205.6	8036.0	7814.2	7294.4	8089.4	9745.0	9870.6	9328.1
45°	8193.6	8181.7	8328.6	8359.4	8293.9	8053.3	7644.4	8575.9	10634.9	10859.4	10256.8
47.5°	8137.6	8114.8	8318.0	8431.5	8483.6	8165.6	7934.4	9102.3	11543.6	11872.3	11269.7
50°	7854.3	7810.2	8112.2	8351.3	8537.0	8239.1	8227.1	9710.2	12576.4	12935.9	12287.8
52.5°	7345.2	7311.7	7655.2	8070.7	8419.5	8275.1	8555.8	10374.3	13557.3	14022.2	13331.4
55°	6694.5	6650.3	7028.5	7571.0	8126.8	8263.1	8884.5	11117.3	14714.4	15186.1	14409.8
57.5°	5662.9	5574.7	6053.0	6694.5	7649.8	8248.5	9226.5	11856.2	15890.3	16455.5	15560.2
60°	4158.3	4027.3	4613.9	5374.3	6717.1	8105.5	9650.2	12684.7	17301.3	17810.4	16816.3
62.5°	2421.3	2345.1	2728.5	3438.1	5062.9	7263.7	9888.0	13648.1	18688.3	19222.7	18050.9
65°	1880.1	1858.6	1892.0	1946.9	2818.0	5438.3	9154.4	14587.5	20452.1	20826.3	19337.6
67.5°	1719.7	1703.7	1718.4	1615.5	1429.8	3029.2	7242.2	14825.3	22341.5	22568.7	20464.1
70°	1528.6	1509.9	1558.0	1469.8	1125.1	1377.6	4679.4	13962.1	23844.8	24271.0	21320.6
72.5°	1245.4	1224.0	1336.2	1296.1	947.4	884.6	2350.4	11911.0	23687.0	24571.6	20707.3
75°	956.7	944.7	1078.3	1111.7	772.3	696.2	1127.8	8853.7	20844.9	21736.1	17846.5
77.5°	742.9	733.6	801.8	923.3	622.7	539.9	693.5	5616.1	15708.5	15864.8	12298.5
80°	557.2	530.4	593.3	714.8	485.0	394.2	470.4	3275.1	9929.4	9000.7	5352.9
82.5°	348.7	335.4	387.6	477.0	342.0	271.2	306.0	1809.2	3979.3	2343.8	1032.9
85°	199.1	193.7	211.2	272.5	185.7	156.3	175.1	799.1	726.9	499.8	311.3
87.5°	80.2	77.5	96.2	121.6	68.2	57.5	61.5	192.4	160.3	148.3	102.9
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°	5070.9	5070.9	5070.9	5070.9	5070.9	5070.9	5070.9	5070.9	5070.9	5070.9	5070.9
2.5°	5085.6	5085.6	5066.9	5037.6	5004.2	4982.7	4948.0	4938.7	4902.6	4891.9	4909.2
5°	5147.1	5136.4	5079.0	4996.1	4882.5	4778.3	4663.3	4591.2	4489.7	4453.6	4480.3
7.5°	5224.6	5195.2	5096.3	4914.6	4676.8	4442.9	4199.7	4015.3	3838.9	3776.1	3784.2
10°	5295.5	5253.9	5085.6	4767.6	4356.0	3951.2	3563.7	3292.4	3086.7	3002.4	3021.2
12.5°	5366.3	5290.0	5014.8	4523.1	3900.4	3351.2	2938.4	2727.2	2600.3	2498.7	2532.2
15°	5433.0	5326.1	4905.2	4195.7	3400.6	2843.5	2538.8	2370.4	2268.9	2202.1	2214.1
17.5°	5510.5	5356.9	4740.9	3780.1	2924.9	2492.1	2243.5	2141.9	2122.0	2113.9	2119.2
20°	5618.7	5384.9	4524.5	3315.2	2574.9	2211.4	2083.1	2073.8	2072.4	2068.4	2081.8
22.5°	5735.1	5418.4	4238.5	2892.9	2276.9	2036.4	2013.7	1995.0	1983.0	1981.6	1996.3
25°	5872.6	5429.0	3880.3	2546.8	2023.0	1953.5	1926.8	1898.7	1890.7	1890.7	1898.7
27.5°	6006.3	5392.9	3463.5	2246.2	1880.1	1877.4	1842.6	1833.3	1832.0	1836.0	1846.6
30°	6139.9	5324.8	3049.3	1968.2	1797.2	1797.2	1785.1	1791.9	1797.2	1810.6	1819.9
32.5°	6320.3	5252.6	2703.1	1762.5	1725.1	1711.6	1723.7	1737.1	1742.4	1759.8	1774.5
35°	6584.9	5201.9	2427.9	1650.2	1650.2	1632.8	1639.5	1636.8	1624.8	1616.8	1635.5
37.5°	6934.9	5199.2	2200.8	1598.1	1587.4	1584.8	1586.1	1568.8	1521.9	1465.9	1467.2
40°	7355.8	5271.4	2025.7	1562.0	1554.0	1570.1	1562.0	1515.3	1387.0	1289.4	1286.8
42.5°	7921.1	5477.2	1913.5	1517.9	1542.0	1562.0	1529.9	1368.3	1281.5	1216.0	1213.3
45°	8586.5	5811.2	1856.0	1471.2	1519.3	1543.3	1388.4	1317.5	1248.0	1169.2	1163.9
47.5°	9340.1	6232.1	1842.6	1427.1	1468.5	1483.2	1328.2	1296.1	1217.3	1131.8	1125.1
50°	10160.5	6730.5	1878.7	1374.9	1395.0	1344.2	1308.1	1278.8	1197.2	1113.0	1103.7
52.5°	11009.1	7279.7	1950.9	1304.1	1321.5	1265.4	1300.1	1274.8	1185.2	1071.6	1063.6
55°	11842.8	7832.8	2020.4	1221.3	1246.7	1194.5	1277.5	1258.7	1130.5	1002.1	995.5
57.5°	12690.0	8383.4	2088.5	1147.8	1174.5	1126.5	1241.4	1216.0	1069.0	938.0	935.3
60°	13570.6	8917.9	2120.5	1077.0	1095.7	1063.6	1186.5	1142.5	999.5	872.6	868.6
62.5°	14395.0	9362.9	2068.4	1006.1	1018.2	1004.8	1114.4	1055.6	930.0	799.1	797.8
65°	15222.2	9627.4	1908.1	936.6	939.3	932.6	1012.8	962.1	848.5	734.9	726.9
67.5°	15971.8	9775.7	1652.9	861.8	855.2	852.5	918.0	860.5	769.7	670.8	662.8
70°	16130.7	9398.9	1262.7	773.7	773.7	767.0	813.7	754.9	682.9	602.6	599.9
72.5°	14733.0	7906.3	896.6	673.4	684.2	670.8	709.5	660.1	594.6	541.2	525.1
75°	11880.3	5797.8	652.1	570.5	589.3	566.5	602.6	567.8	511.8	510.4	459.6
77.5°	8162.9	3585.0	473.0	470.4	483.7	454.3	495.7	477.0	426.3	403.5	378.1
80°	3483.5	1429.8	344.7	363.5	363.5	336.7	384.8	390.2	346.0	335.4	335.4
82.5°	693.5	406.2	241.9	249.9	235.1	227.1	272.5	302.0	416.9	463.7	465.0
85°	208.5	149.6	145.7	136.3	120.2	121.6	160.3	303.3	374.1	213.8	184.4
87.5°	57.5	37.4	38.7	30.7	25.4	33.4	54.7	229.8	125.6	53.4	45.4
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)