

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: P969858

Luminaire Tested: **NAV-SB6A-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969858
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-SB6A-740-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29320.1 lumens
Efficiency: N/A
Efficacy: 171.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 170.9
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



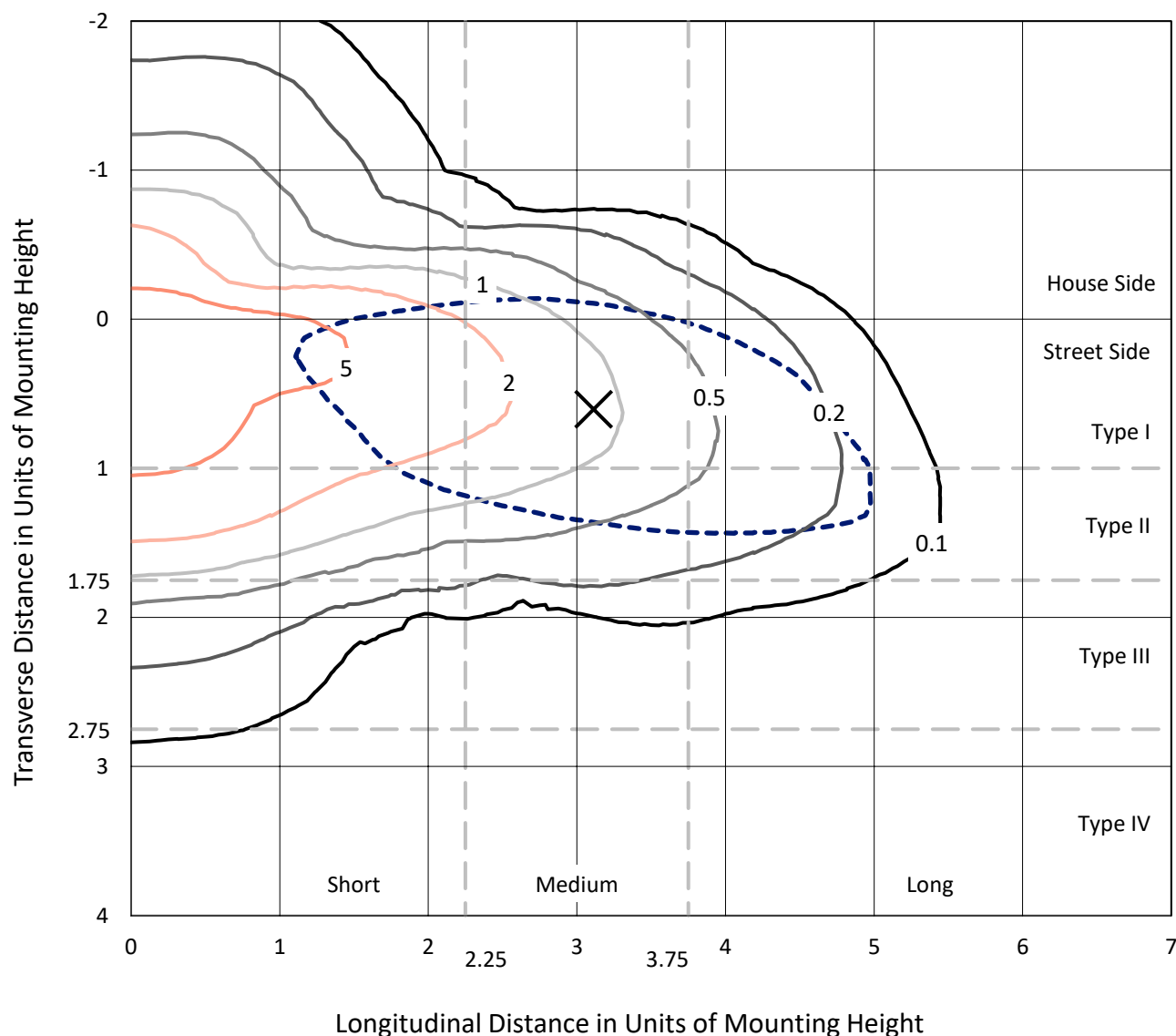
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

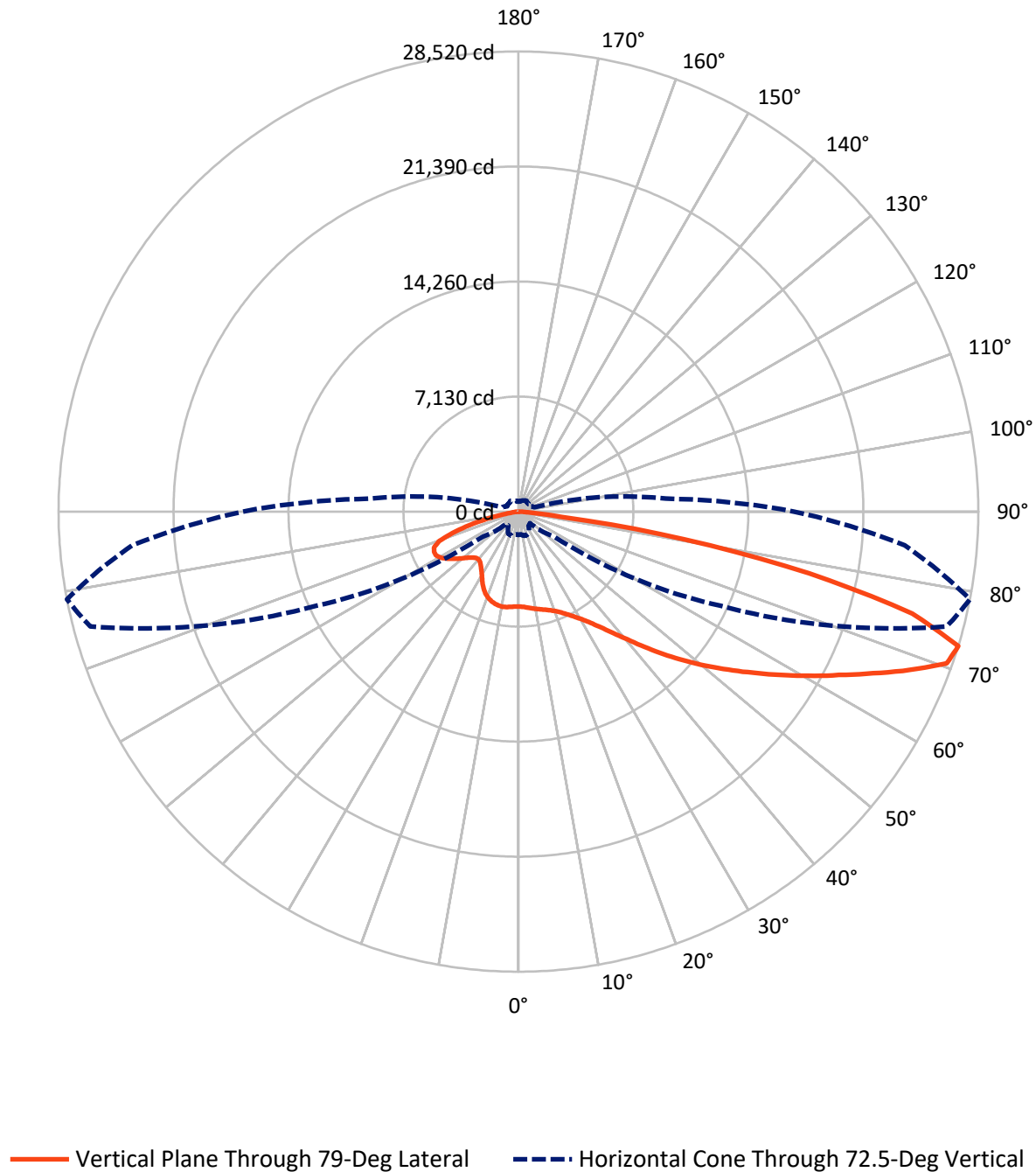
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6452.0	0.0	6452.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	22868.1	0.0	22868.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	29320.1	0.0	29320.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.3	1.8
10°-20°	1396.8	4.8
20°-30°	2253.9	7.7
30°-40°	3382.8	11.5
40°-50°	4798.6	16.4
50°-60°	6060.0	20.7
60°-70°	6154.8	21.0
70°-80°	4194.8	14.3
80°-90°	544.2	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°	29320.1	100.0
0°-180°	29320.1	100.0

Coefficient of Utilization



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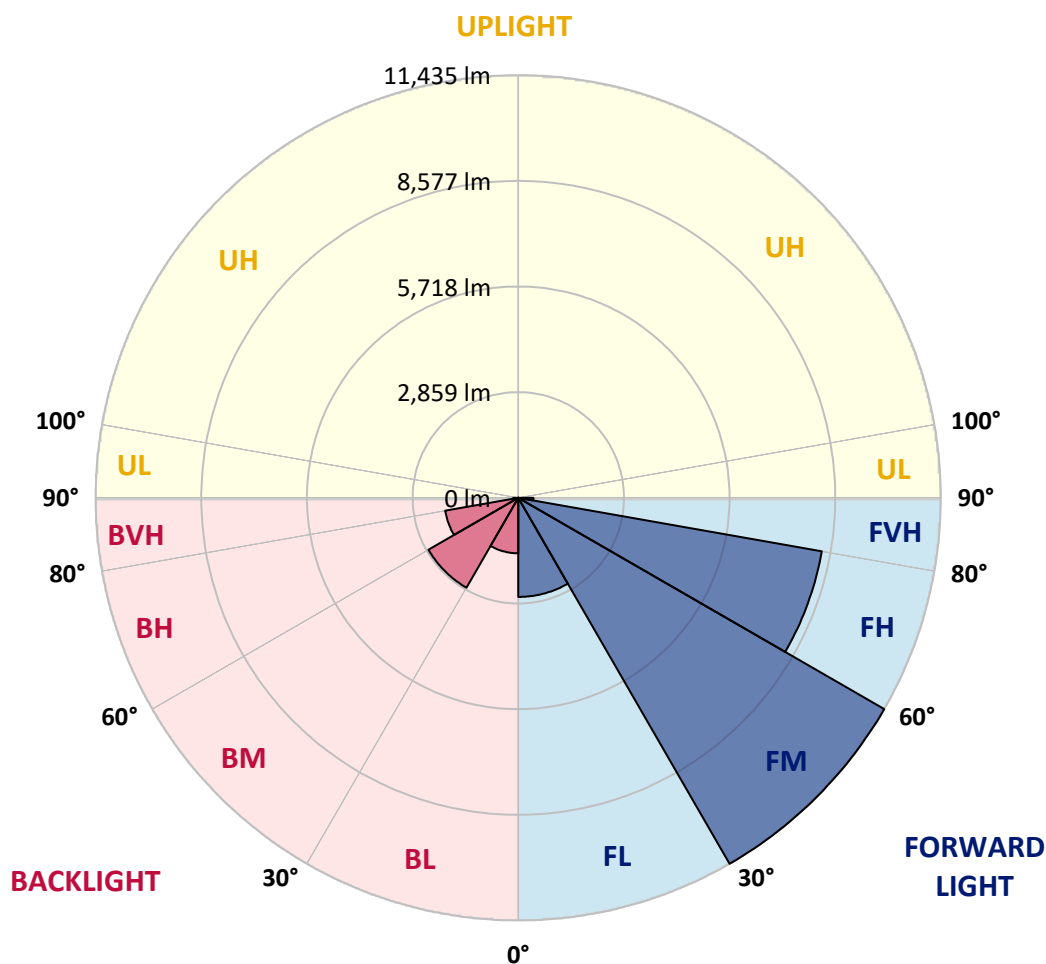
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2682.1	9.1			
FM	(30°-60°)	11435.4	39.0			
FH	(60°-80°)	8340.6	28.4			G4/12000
FVH	(80°-90°)	410.0	1.4			G3/500
BL	(0°-30°)	1502.9	5.1	B3/2500		
BM	(30°-60°)	2806.0	9.6	B3/5000		
BH	(60°-80°)	2009.0	6.9	B3/2500		G3/2500
BVH	(80°-90°)	134.3	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5885.8	5885.8	5885.8	5885.8	5885.8	5885.8	5885.8	5885.8	5885.8	5885.8	5885.8
2.5°	5888.8	5861.0	5878.0	5871.8	5879.5	5888.8	5891.9	5896.6	5912.1	5910.6	5909.0
5°	5876.4	5848.5	5871.8	5864.0	5884.2	5905.9	5924.5	5941.6	5966.4	5977.3	5961.7
7.5°	5850.1	5831.4	5854.7	5878.0	5915.2	5947.8	5974.1	6013.0	6048.6	6054.8	6065.6
10°	5696.5	5682.6	5736.8	5797.3	5899.7	5988.0	6045.4	6090.4	6129.2	6135.4	6150.9
12.5°	5536.7	5519.7	5580.2	5662.4	5828.4	5988.0	6109.1	6168.0	6202.2	6222.3	6245.5
15°	5510.4	5496.5	5530.6	5601.9	5740.0	5946.2	6152.5	6261.0	6290.5	6313.8	6323.1
17.5°	5637.6	5611.3	5625.2	5650.0	5730.7	5907.5	6186.6	6366.5	6411.5	6436.3	6436.3
20°	5932.3	5895.1	5873.4	5823.7	5809.7	5913.6	6183.5	6493.7	6552.6	6583.7	6591.4
22.5°	6324.7	6299.9	6253.3	6127.7	5991.2	5989.7	6242.5	6656.6	6766.6	6796.2	6777.5
25°	6799.2	6762.0	6703.1	6532.4	6270.3	6140.1	6341.7	6864.3	7048.9	7056.7	7002.4
27.5°	7345.2	7289.3	7208.6	6983.8	6630.2	6375.8	6493.7	7103.2	7373.0	7370.0	7258.3
30°	7920.6	7864.7	7779.4	7506.5	7061.3	6693.8	6704.6	7360.6	7757.7	7740.6	7549.8
32.5°	8340.8	8299.0	8281.9	8071.0	7557.6	7069.1	6946.5	7646.0	8232.3	8216.8	7950.0
35°	8663.4	8609.2	8629.3	8522.3	8098.9	7489.4	7242.8	7985.7	8809.3	8807.6	8475.7
37.5°	8982.9	8934.8	8951.9	8880.6	8599.9	8022.9	7604.2	8401.3	9524.2	9558.3	9111.6
40°	9274.5	9223.4	9291.5	9224.9	8989.1	8590.5	8015.2	8871.3	10352.4	10417.5	9880.9
42.5°	9449.8	9409.4	9522.7	9524.2	9327.2	9069.8	8466.5	9389.3	11310.9	11456.6	10827.0
45°	9510.3	9496.3	9666.9	9702.5	9626.6	9347.4	8872.8	9953.8	12343.8	12604.3	11904.9
47.5°	9445.1	9418.7	9654.5	9786.3	9846.8	9477.7	9209.3	10564.9	13398.4	13779.9	13080.4
50°	9116.3	9065.1	9415.6	9693.2	9908.8	9562.9	9549.0	11270.5	14597.2	15014.4	14262.3
52.5°	8525.4	8486.6	8885.2	9367.6	9772.3	9604.9	9930.5	12041.3	15735.6	16275.4	15473.5
55°	7770.1	7719.0	8157.9	8787.5	9432.7	9590.9	10312.0	12903.6	17078.8	17626.2	16725.1
57.5°	6572.8	6470.4	7025.7	7770.1	8879.0	9573.8	10709.1	13761.3	18443.5	19099.5	18060.4
60°	4826.4	4674.5	5355.3	6237.8	7796.5	9407.9	11200.7	14722.9	20081.3	20672.2	19518.4
62.5°	2810.2	2721.9	3166.9	3990.5	5876.4	8430.8	11476.8	15841.1	21691.2	22311.5	20951.4
65°	2182.1	2157.3	2196.1	2259.7	3270.9	6312.3	10625.4	16931.4	23738.4	24172.6	22444.9
67.5°	1996.0	1977.4	1994.4	1875.0	1659.5	3516.0	8406.0	17207.4	25931.4	26195.0	23752.3
70°	1774.3	1752.5	1808.4	1706.0	1305.8	1599.0	5431.3	16205.6	27676.1	28170.9	24746.5
72.5°	1445.5	1420.6	1550.9	1504.4	1099.6	1026.7	2728.0	13824.9	27493.2	28519.8	24034.6
75°	1110.5	1096.5	1251.6	1290.4	896.5	808.0	1308.9	10276.3	24194.3	25228.8	20714.0
77.5°	862.3	851.5	930.6	1071.6	722.7	626.6	804.9	6518.5	18232.6	18414.0	14274.7
80°	646.8	615.7	688.6	829.7	563.0	457.6	545.9	3801.3	11524.9	10447.0	6212.9
82.5°	404.8	389.3	449.8	553.7	397.1	314.9	355.2	2099.9	4618.6	2720.4	1198.8
85°	231.1	224.9	245.1	316.4	215.6	181.4	203.2	927.4	843.7	580.0	361.4
87.5°	93.1	90.0	111.6	141.1	79.1	66.7	71.3	223.3	186.1	172.2	119.4
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°	5885.8	5885.8	5885.8	5885.8	5885.8	5885.8	5885.8	5885.8	5885.8	5885.8	5885.8
2.5°	5902.8	5902.8	5881.0	5847.0	5808.2	5783.4	5743.1	5732.2	5690.3	5677.9	5698.1
5°	5974.1	5961.7	5895.1	5798.8	5667.0	5546.1	5412.7	5329.0	5211.1	5169.2	5200.2
7.5°	6064.1	6030.0	5915.2	5704.3	5428.2	5156.8	4874.5	4660.5	4455.8	4382.9	4392.2
10°	6146.3	6098.2	5902.8	5533.7	5056.0	4586.1	4136.3	3821.5	3582.6	3484.9	3506.6
12.5°	6228.5	6140.1	5820.6	5249.8	4527.1	3889.7	3410.5	3165.4	3018.1	2900.2	2939.0
15°	6306.0	6182.0	5693.5	4869.9	3947.1	3300.4	2946.8	2751.3	2633.4	2555.9	2569.9
17.5°	6396.0	6217.6	5502.6	4387.5	3395.0	2892.4	2604.0	2486.1	2462.9	2453.5	2459.8
20°	6521.6	6250.2	5251.4	3847.8	2988.6	2566.8	2417.9	2407.0	2405.5	2400.9	2416.3
22.5°	6656.6	6289.0	4919.5	3357.7	2642.8	2363.6	2337.2	2315.5	2301.5	2300.0	2317.1
25°	6816.2	6301.4	4503.8	2956.1	2348.1	2267.4	2236.4	2203.9	2194.5	2194.5	2203.9
27.5°	6971.3	6259.5	4019.9	2607.1	2182.1	2179.0	2138.8	2127.9	2126.3	2131.0	2143.4
30°	7126.5	6180.4	3539.2	2284.5	2086.0	2086.0	2072.0	2079.8	2086.0	2101.5	2112.3
32.5°	7335.8	6096.7	3137.5	2045.7	2002.2	1986.8	2000.7	2016.2	2022.4	2042.5	2059.6
35°	7642.9	6037.8	2818.0	1915.4	1915.4	1895.2	1903.0	1899.8	1885.9	1876.6	1898.3
37.5°	8049.2	6034.6	2554.4	1854.9	1842.5	1839.4	1840.9	1820.8	1766.5	1701.4	1702.9
40°	8537.8	6118.3	2351.1	1813.0	1803.7	1822.3	1813.0	1758.7	1609.9	1496.6	1493.5
42.5°	9193.8	6357.3	2220.9	1761.9	1789.8	1813.0	1775.8	1588.1	1487.4	1411.3	1408.2
45°	9966.2	6744.9	2154.2	1707.5	1763.4	1791.3	1611.4	1529.2	1448.5	1357.1	1350.8
47.5°	10840.9	7233.5	2138.8	1656.4	1704.5	1721.5	1541.6	1504.4	1412.9	1313.6	1305.8
50°	11793.1	7811.9	2180.6	1595.9	1619.2	1560.3	1518.3	1484.2	1389.6	1291.9	1281.0
52.5°	12778.1	8449.4	2264.3	1513.7	1533.8	1468.7	1509.0	1479.6	1375.7	1243.8	1234.5
55°	13745.8	9091.4	2345.0	1417.6	1447.0	1386.5	1482.7	1460.9	1312.1	1163.2	1155.5
57.5°	14729.0	9730.4	2424.1	1332.2	1363.2	1307.4	1440.8	1411.3	1240.8	1088.8	1085.7
60°	15751.2	10350.9	2461.3	1250.1	1271.7	1234.5	1377.2	1326.0	1160.1	1012.7	1008.1
62.5°	16708.0	10867.3	2400.9	1167.9	1181.8	1166.2	1293.4	1225.2	1079.4	927.4	925.9
65°	17668.0	11174.3	2214.7	1087.2	1090.3	1082.5	1175.6	1116.6	984.8	853.0	843.7
67.5°	18538.1	11346.5	1918.5	1000.3	992.6	989.5	1065.5	998.8	893.3	778.6	769.3
70°	18722.6	10909.2	1465.6	898.0	898.0	890.2	944.5	876.3	792.5	699.5	696.4
72.5°	17100.4	9176.8	1040.7	781.7	794.1	778.6	823.6	766.2	690.1	628.1	609.5
75°	13789.2	6729.4	756.9	662.3	684.0	657.6	699.5	659.2	594.0	592.4	533.5
77.5°	9474.6	4161.1	549.0	545.9	561.4	527.4	575.4	553.7	494.8	468.4	438.9
80°	4043.2	1659.5	400.2	421.9	421.9	390.8	446.7	452.8	401.7	389.3	389.3
82.5°	804.9	471.5	280.7	290.0	273.0	263.6	316.4	350.5	483.9	538.1	539.8
85°	241.9	173.7	169.0	158.2	139.6	141.1	186.1	352.1	434.3	248.2	214.0
87.5°	66.7	43.5	45.0	35.7	29.4	38.7	63.6	266.8	145.8	62.0	52.7
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)