

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: P969734

Luminaire Tested: **NAV-SB6A-722-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969734  
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-722-U-SL2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 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: 22893.4 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

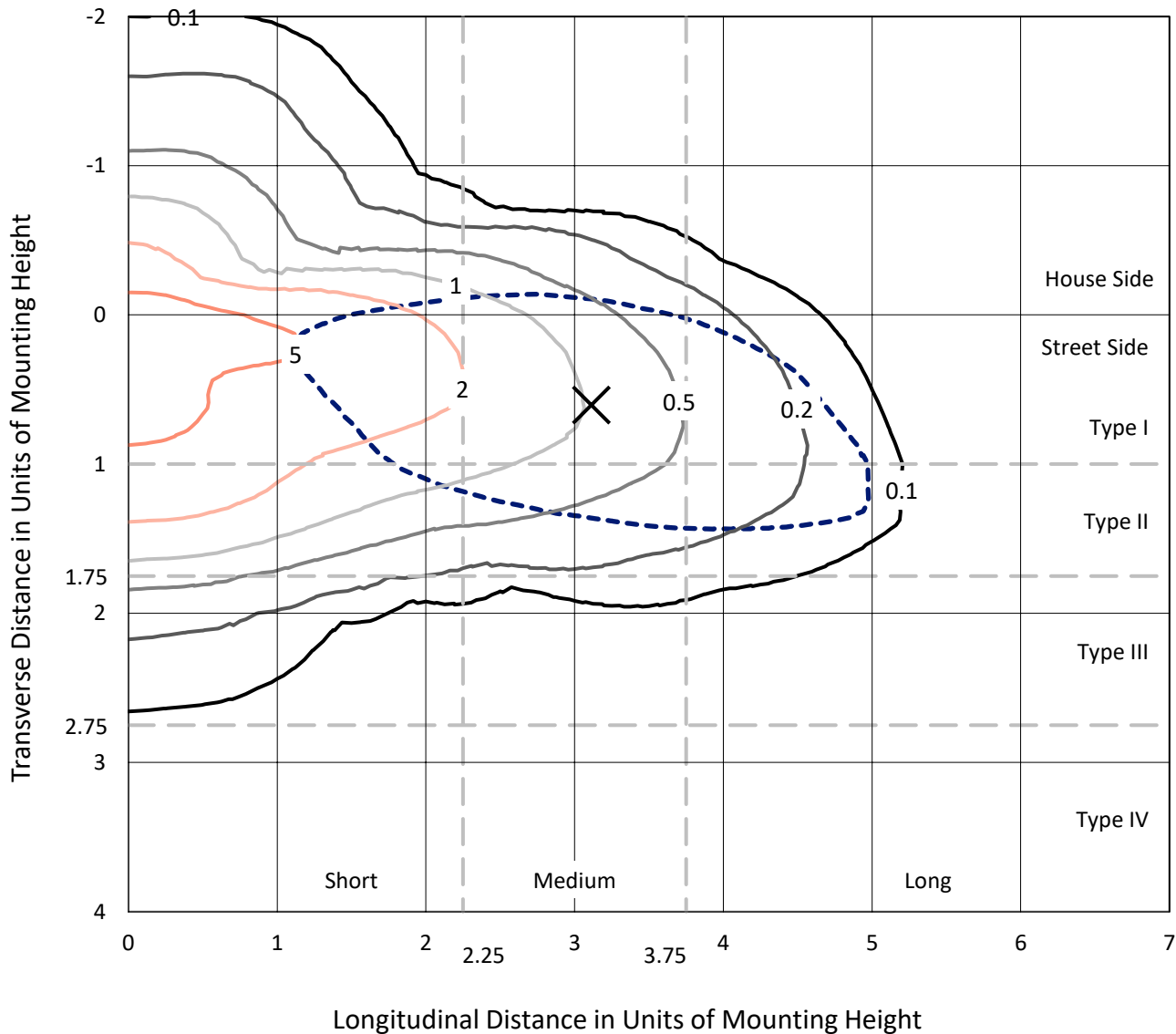
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

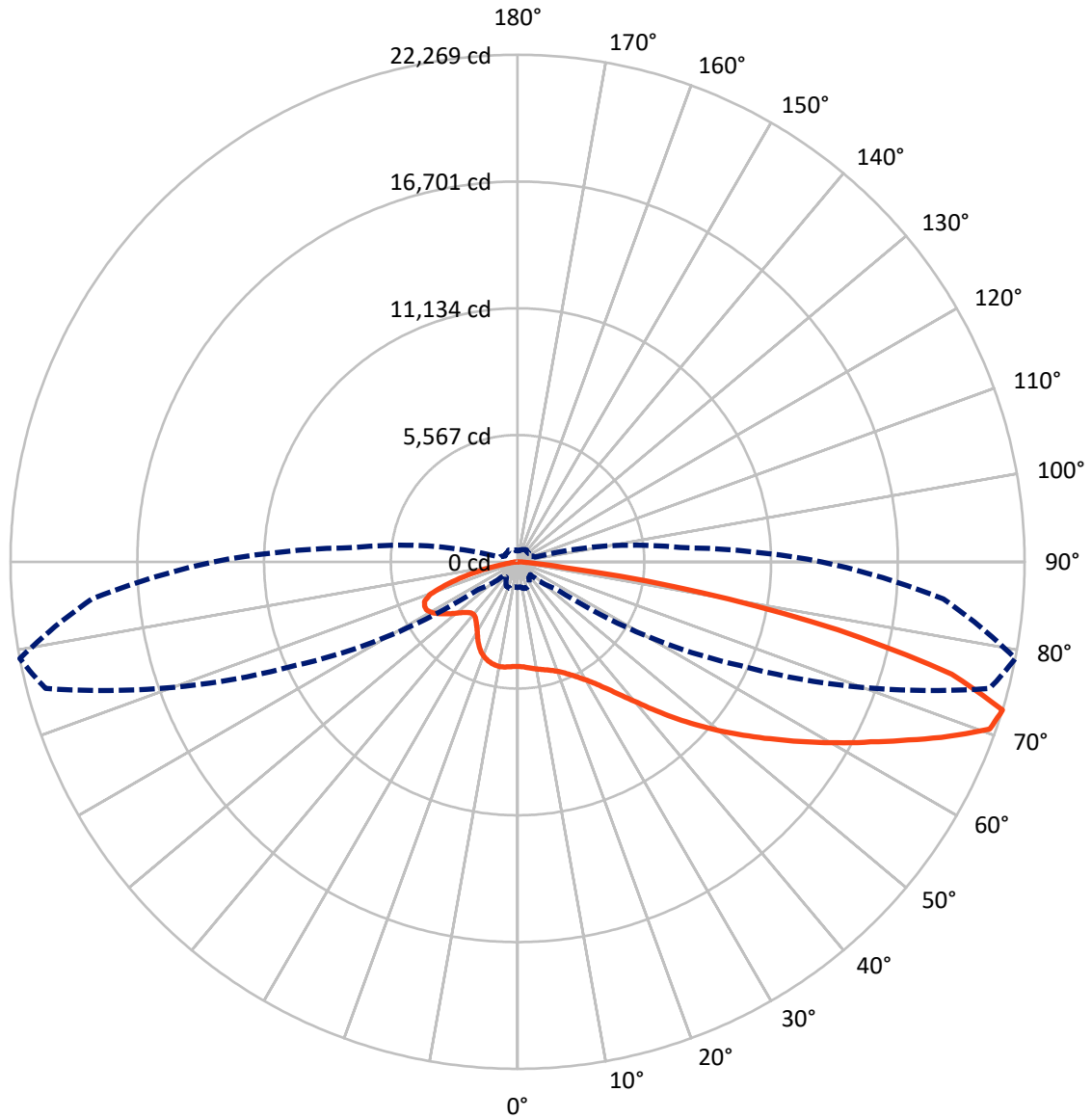
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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
<b>House Side</b>	Lumens	5037.8	0.0	5037.8
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	17855.6	0.0	17855.6
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	22893.4	0.0	22893.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.2	1.8
10°-20°	1090.6	4.8
20°-30°	1759.8	7.7
30°-40°	2641.3	11.5
40°-50°	3746.8	16.4
50°-60°	4731.7	20.7
60°-70°	4805.7	21.0
70°-80°	3275.3	14.3
80°-90°	424.9	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°	22893.4	100.0
0°-180°	22893.4	100.0

**Coefficient of Utilization**



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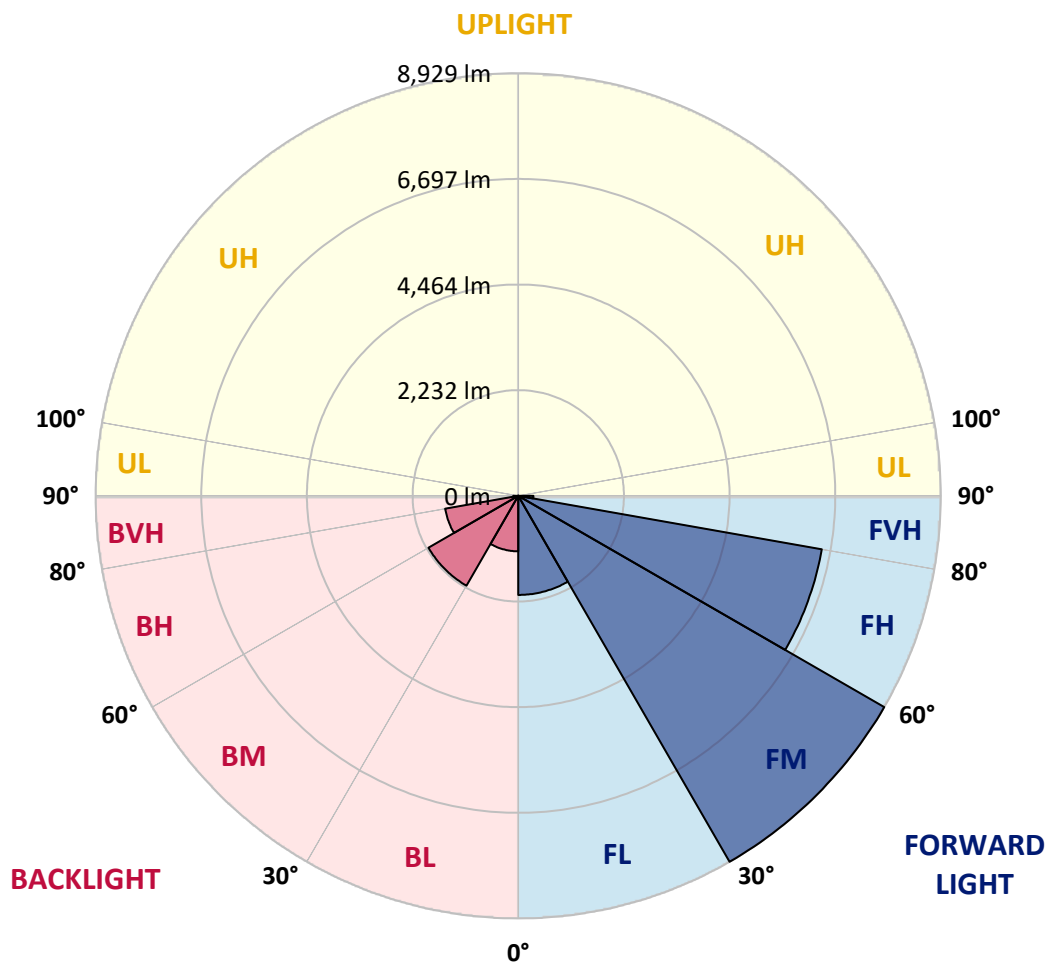
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2094.2	9.1			
FM (30°-60°)	8928.9	39.0			
FH (60°-80°)	6512.4	28.4			G3/7500
FVH (80°-90°)	320.1	1.4			G3/500
BL (0°-30°)	1173.4	5.1	B3/2500		
BM (30°-60°)	2190.9	9.6	B2/2500		
BH (60°-80°)	1568.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	104.8	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°	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6
2.5°	4598.0	4576.2	4589.5	4584.7	4590.8	4598.0	4600.5	4604.1	4616.2	4615.0	4613.8
5°	4588.4	4566.6	4584.7	4578.7	4594.5	4611.4	4625.9	4639.3	4658.6	4667.0	4654.9
7.5°	4567.8	4553.3	4571.4	4589.5	4618.6	4644.1	4664.7	4694.9	4722.8	4727.6	4736.1
10°	4447.9	4437.0	4479.4	4526.6	4606.6	4675.5	4720.3	4755.5	4785.7	4790.5	4802.7
12.5°	4323.1	4309.8	4357.1	4421.2	4550.8	4675.5	4770.0	4816.1	4842.7	4858.4	4876.5
15°	4302.5	4291.7	4318.3	4374.0	4481.8	4642.8	4803.9	4888.6	4911.7	4929.8	4937.1
17.5°	4401.9	4381.3	4392.2	4411.6	4474.5	4612.6	4830.5	4971.0	5006.1	5025.5	5025.5
20°	4632.0	4602.9	4586.0	4547.2	4536.2	4617.4	4828.2	5070.4	5116.4	5140.6	5146.6
22.5°	4938.3	4919.0	4882.6	4784.5	4678.0	4676.8	4874.2	5197.5	5283.5	5306.4	5292.0
25°	5308.9	5279.8	5233.9	5100.6	4895.9	4794.2	4951.7	5359.7	5503.8	5509.9	5467.6
27.5°	5735.2	5691.5	5628.6	5453.0	5176.9	4978.3	5070.4	5546.3	5756.9	5754.6	5667.3
30°	6184.4	6140.8	6074.3	5861.1	5513.6	5226.6	5235.0	5747.3	6057.2	6043.9	5895.0
32.5°	6512.5	6479.8	6466.6	6301.9	5901.0	5519.6	5423.9	5970.1	6427.8	6415.7	6207.4
35°	6764.5	6722.1	6737.8	6654.3	6323.6	5847.7	5655.2	6235.3	6878.3	6877.1	6617.9
37.5°	7014.0	6976.4	6989.7	6934.0	6714.8	6264.4	5937.4	6559.8	7436.6	7463.2	7114.4
40°	7241.6	7201.6	7255.0	7202.9	7018.8	6707.6	6258.2	6926.7	8083.3	8134.1	7715.1
42.5°	7378.5	7347.0	7435.4	7436.6	7282.7	7081.7	6610.6	7331.2	8831.6	8945.4	8453.8
45°	7425.6	7414.7	7548.0	7575.8	7516.5	7298.5	6928.0	7772.0	9638.1	9841.5	9295.4
47.5°	7374.8	7354.2	7538.3	7641.2	7688.4	7400.2	7190.8	8249.1	10461.6	10759.4	10213.3
50°	7118.1	7078.1	7351.8	7568.6	7736.9	7466.8	7456.0	8800.1	11397.6	11723.4	11136.1
52.5°	6656.7	6626.4	6937.6	7314.3	7630.3	7499.5	7753.8	9401.9	12286.5	12707.9	12081.9
55°	6067.0	6027.0	6369.7	6861.4	7365.1	7488.6	8051.7	10075.2	13335.1	13762.7	13059.1
57.5°	5132.1	5052.1	5485.7	6067.0	6932.8	7475.3	8361.7	10745.0	14400.8	14913.0	14101.7
60°	3768.5	3649.8	4181.5	4870.5	6087.6	7345.8	8745.6	11495.7	15679.6	16141.0	15240.0
62.5°	2194.3	2125.2	2472.8	3115.8	4588.4	6582.9	8961.2	12368.9	16936.6	17421.0	16359.0
65°	1703.9	1684.5	1714.7	1764.3	2553.9	4928.6	8296.3	13220.1	18535.1	18874.1	17525.1
67.5°	1558.5	1544.0	1557.3	1464.1	1295.7	2745.3	6563.5	13435.7	20247.4	20453.3	18545.9
70°	1385.4	1368.4	1412.0	1332.1	1019.7	1248.6	4240.8	12653.4	21609.8	21996.1	19322.2
72.5°	1128.6	1109.3	1210.9	1174.6	858.5	801.7	2130.1	10794.6	21466.9	22268.5	18766.4
75°	867.0	856.2	977.2	1007.6	700.0	630.9	1022.0	8023.9	18891.2	19698.9	16173.7
77.5°	673.3	664.8	726.6	836.8	564.3	489.2	628.5	5089.7	14236.1	14377.9	11145.7
80°	505.0	480.7	537.7	647.9	439.6	357.2	426.3	2968.1	8998.7	8157.1	4851.1
82.5°	316.1	303.9	351.2	432.3	310.0	245.8	277.3	1639.7	3606.3	2124.0	936.0
85°	180.4	175.6	191.4	247.0	168.3	141.7	158.7	724.2	658.8	452.9	282.2
87.5°	72.7	70.2	87.2	110.2	61.8	52.1	55.7	174.4	145.3	134.4	93.3
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°	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6
2.5°	4608.9	4608.9	4592.0	4565.3	4535.1	4515.7	4484.2	4475.8	4443.1	4433.3	4449.1
5°	4664.7	4654.9	4602.9	4527.8	4424.9	4330.4	4226.3	4160.9	4068.8	4036.1	4060.3
7.5°	4734.9	4708.2	4618.6	4453.9	4238.4	4026.5	3806.0	3639.0	3479.2	3422.2	3429.4
10°	4799.0	4761.5	4608.9	4320.8	3947.8	3580.8	3229.7	2983.9	2797.3	2721.1	2738.0
12.5°	4863.2	4794.2	4544.7	4099.2	3534.8	3037.1	2663.0	2471.6	2356.6	2264.5	2294.8
15°	4923.8	4826.9	4445.4	3802.4	3081.9	2577.0	2300.8	2148.3	2056.3	1995.7	2006.5
17.5°	4994.0	4854.8	4296.5	3425.9	2650.9	2258.5	2033.2	1941.1	1923.0	1915.7	1920.6
20°	5092.1	4880.2	4100.3	3004.4	2333.5	2004.2	1887.9	1879.4	1878.2	1874.6	1886.7
22.5°	5197.5	4910.5	3841.2	2621.7	2063.5	1845.5	1824.9	1808.0	1797.0	1795.9	1809.2
25°	5322.2	4920.2	3516.7	2308.1	1833.4	1770.5	1746.2	1720.8	1713.5	1713.5	1720.8
27.5°	5443.3	4887.5	3138.9	2035.6	1703.9	1701.4	1669.9	1661.4	1660.2	1663.9	1673.5
30°	5564.4	4825.7	2763.4	1783.8	1628.7	1628.7	1617.9	1623.9	1628.7	1640.8	1649.3
32.5°	5727.9	4760.3	2449.8	1597.3	1563.3	1551.2	1562.1	1574.3	1579.1	1594.8	1608.1
35°	5967.7	4714.3	2200.4	1495.6	1495.6	1479.8	1485.8	1483.5	1472.5	1465.2	1482.3
37.5°	6284.9	4711.9	1994.4	1448.3	1438.6	1436.2	1437.5	1421.7	1379.3	1328.4	1329.6
40°	6666.4	4777.3	1835.9	1415.6	1408.4	1422.9	1415.6	1373.2	1257.0	1168.6	1166.1
42.5°	7178.6	4963.8	1734.1	1375.7	1397.5	1415.6	1386.5	1240.0	1161.3	1102.0	1099.5
45°	7781.7	5266.6	1682.0	1333.3	1376.9	1398.7	1258.2	1194.0	1131.1	1059.6	1054.7
47.5°	8464.7	5648.0	1669.9	1293.3	1330.9	1344.2	1203.7	1174.6	1103.2	1025.7	1019.7
50°	9208.2	6099.7	1702.6	1246.1	1264.2	1218.2	1185.5	1158.9	1085.1	1008.7	1000.3
52.5°	9977.1	6597.3	1768.0	1181.9	1197.6	1146.8	1178.2	1155.3	1074.1	971.2	963.9
55°	10732.8	7098.7	1831.0	1106.8	1129.9	1082.6	1157.7	1140.7	1024.5	908.3	902.2
57.5°	11500.6	7597.6	1892.8	1040.3	1064.5	1020.8	1125.0	1102.0	968.7	850.1	847.7
60°	12298.6	8082.0	1921.8	976.0	993.0	963.9	1075.3	1035.4	905.8	790.8	787.1
62.5°	13045.8	8485.3	1874.6	911.8	922.8	910.6	1009.9	956.6	842.9	724.2	722.9
65°	13795.4	8725.0	1729.3	848.9	851.3	845.2	917.9	871.9	769.0	666.0	658.8
67.5°	14474.7	8859.5	1497.9	781.0	775.0	772.6	831.9	779.8	697.5	607.9	600.6
70°	14618.9	8518.0	1144.4	701.1	701.1	695.1	737.5	684.2	618.8	546.1	543.8
72.5°	13352.2	7165.3	812.5	610.3	620.0	607.9	643.0	598.2	538.8	490.5	475.9
75°	10766.7	5254.4	590.9	517.1	534.0	513.4	546.1	514.7	463.8	462.6	416.6
77.5°	7397.8	3249.0	428.7	426.3	438.4	411.7	449.3	432.3	386.3	365.7	342.7
80°	3157.0	1295.7	312.4	329.3	329.3	305.1	348.8	353.6	313.6	303.9	303.9
82.5°	628.5	368.2	219.1	226.4	213.1	205.8	247.0	273.7	377.8	420.2	421.4
85°	188.9	135.6	132.0	123.5	109.0	110.2	145.3	274.9	339.1	193.7	167.1
87.5°	52.1	33.9	35.2	27.9	23.0	30.2	49.6	208.3	113.9	48.5	41.2
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)