

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: P964557

Luminaire Tested: **NAV-SB3C-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964557
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-SB3C-735-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 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: 22892.3 lumens
Efficiency: N/A
Efficacy: 153.5 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): 149.1
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

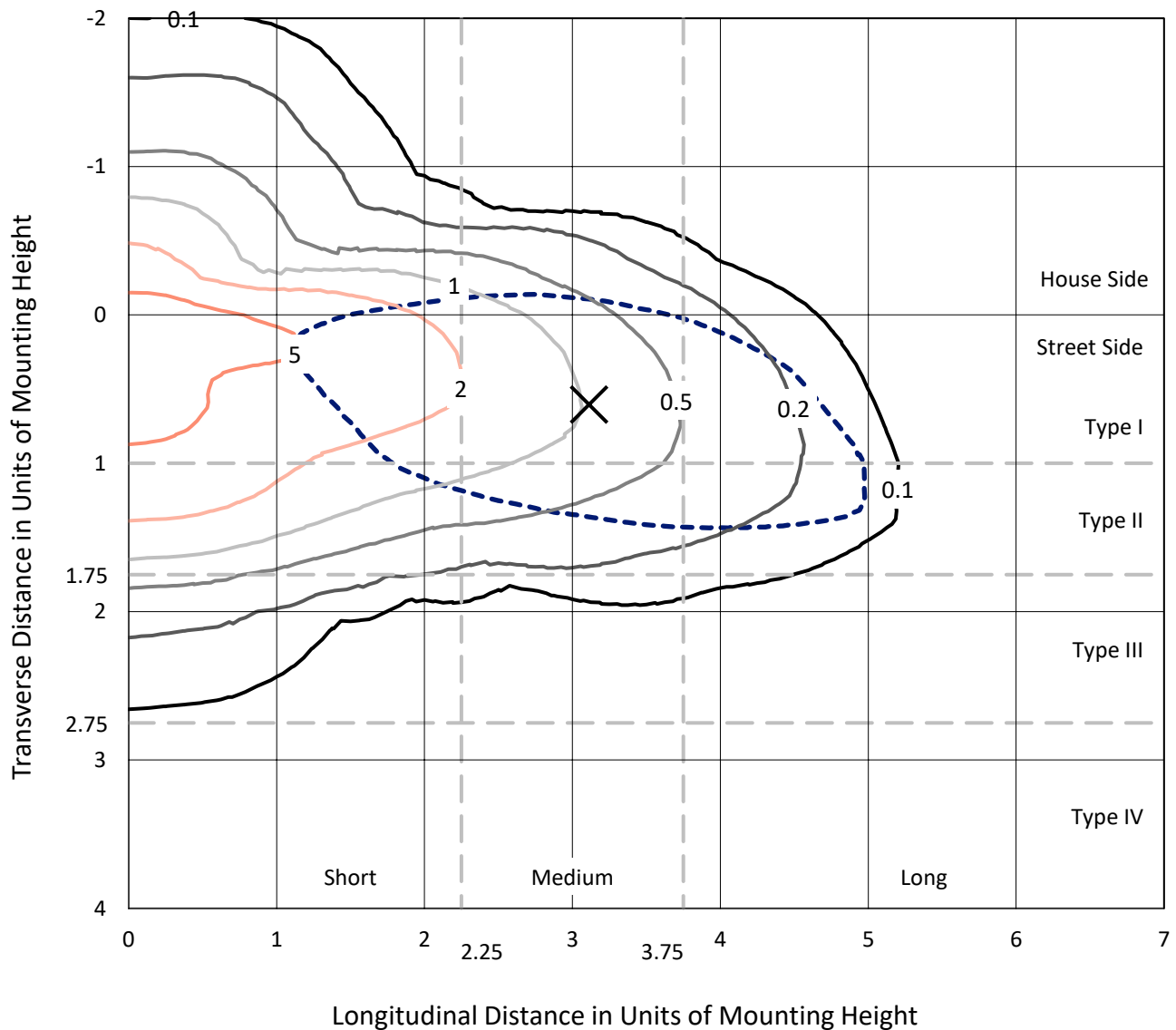


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Iso-Footcandle Lines of Horizontal Illumination

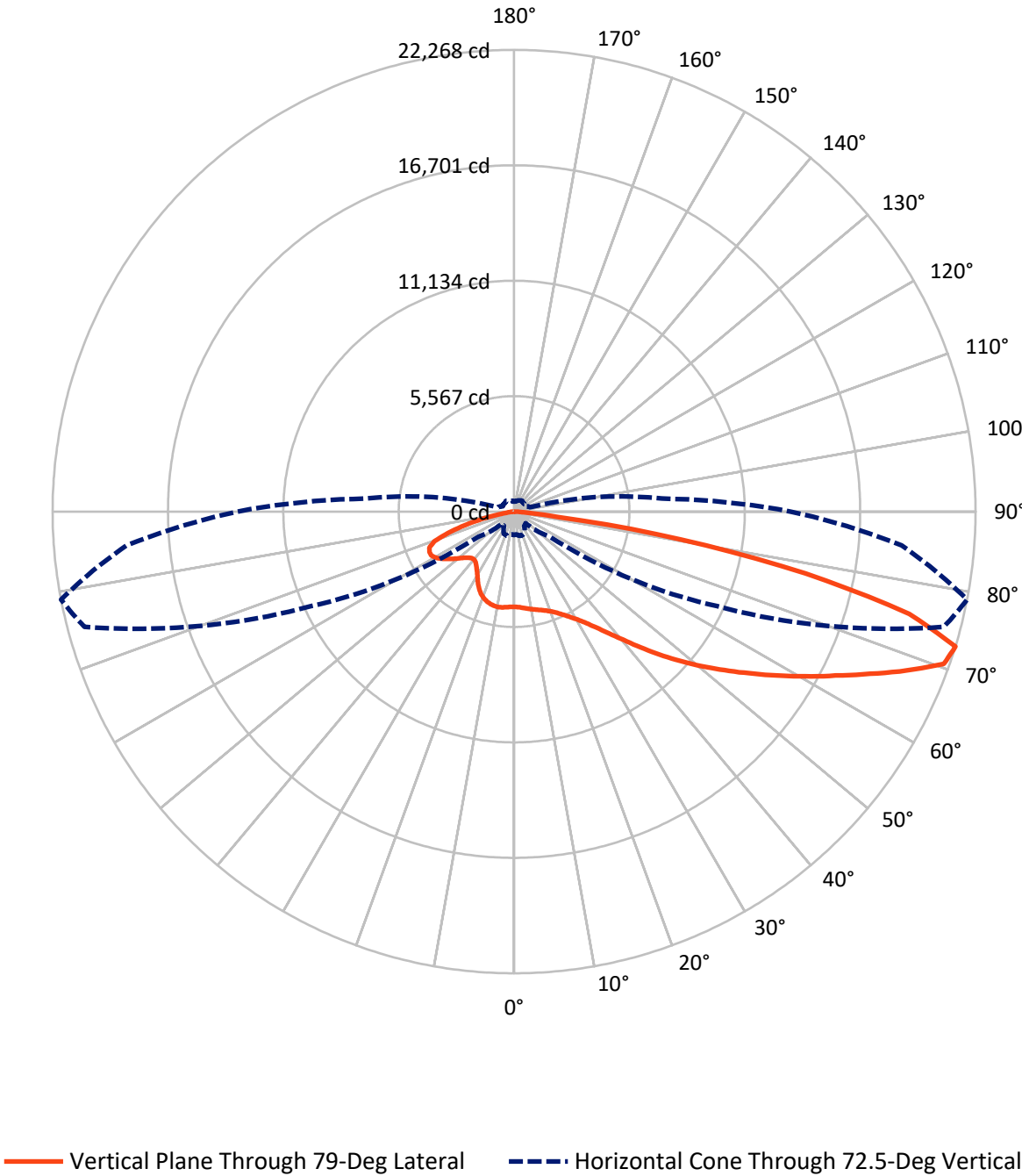
× Max cd
- - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5037.6	0.0	5037.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	17854.8	0.0	17854.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	22892.3	0.0	22892.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.1	1.8
10°-20°	1090.6	4.8
20°-30°	1759.8	7.7
30°-40°	2641.2	11.5
40°-50°	3746.6	16.4
50°-60°	4731.5	20.7
60°-70°	4805.5	21.0
70°-80°	3275.1	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°	22892.3	100.0
0°-180°	22892.3	100.0

Coefficient of Utilization



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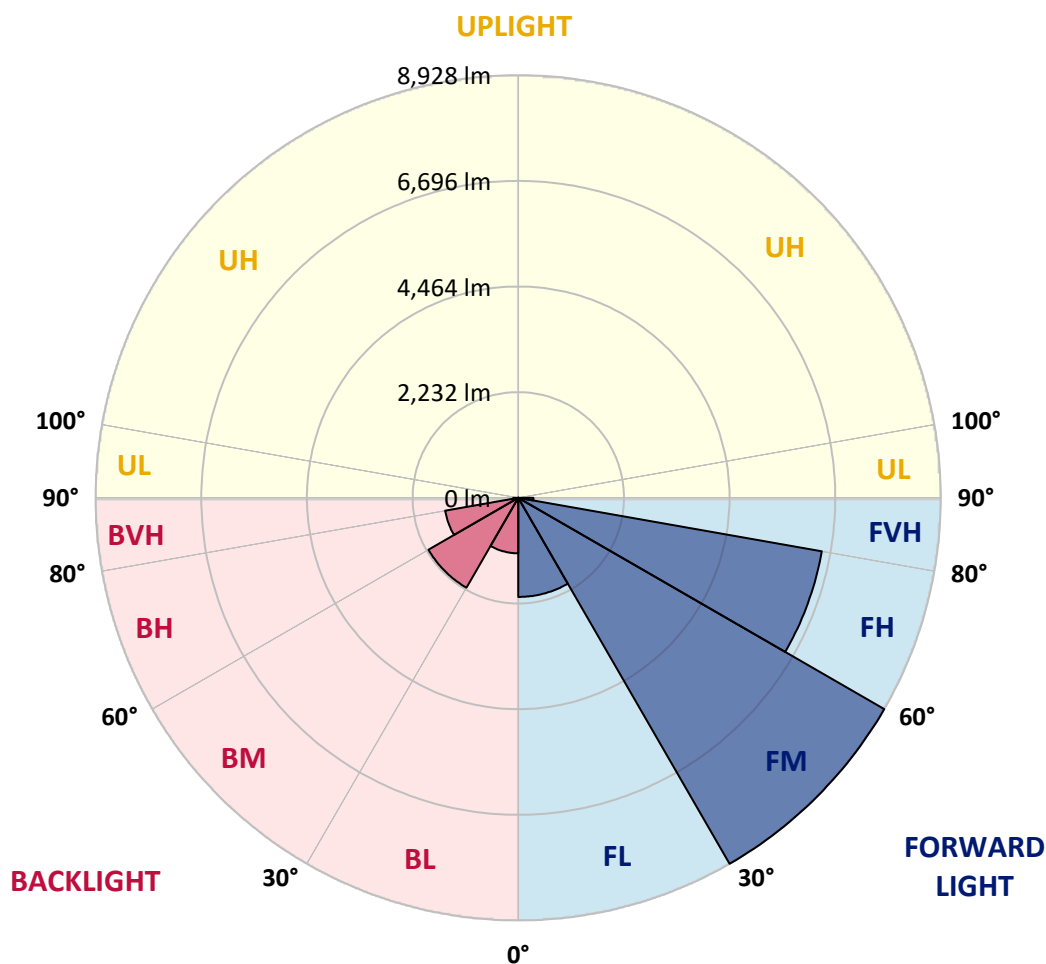
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2094.1	9.1			
FM	(30°-60°)	8928.5	39.0			
FH	(60°-80°)	6512.1	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°)	2190.8	9.6	B2/2500		
BH	(60°-80°)	1568.5	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°	4595.4	4595.4	4595.4	4595.4	4595.4	4595.4	4595.4	4595.4	4595.4	4595.4	4595.4
2.5°	4597.8	4576.0	4589.3	4584.5	4590.6	4597.8	4600.3	4603.9	4616.0	4614.8	4613.6
5°	4588.1	4566.4	4584.5	4578.5	4594.3	4611.2	4625.7	4639.0	4658.4	4666.8	4654.7
7.5°	4567.6	4553.0	4571.2	4589.3	4618.4	4643.9	4664.5	4694.7	4722.6	4727.4	4735.9
10°	4447.7	4436.8	4479.1	4526.4	4606.3	4675.3	4720.1	4755.3	4785.5	4790.3	4802.5
12.5°	4322.9	4309.6	4356.9	4421.0	4550.6	4675.3	4769.8	4815.8	4842.4	4858.2	4876.3
15°	4302.3	4291.5	4318.1	4373.8	4481.6	4642.6	4803.7	4888.4	4911.5	4929.6	4936.9
17.5°	4401.7	4381.1	4392.0	4411.4	4474.3	4612.4	4830.3	4970.8	5005.9	5025.3	5025.3
20°	4631.8	4602.7	4585.7	4547.0	4536.1	4617.2	4828.0	5070.1	5116.1	5140.4	5146.4
22.5°	4938.1	4918.8	4882.4	4784.3	4677.8	4676.6	4874.0	5197.3	5283.3	5306.2	5291.7
25°	5308.7	5279.6	5233.5	5100.4	4895.7	4794.0	4951.5	5359.5	5503.6	5509.7	5467.2
27.5°	5734.9	5691.3	5628.4	5452.8	5176.7	4978.1	5070.1	5546.0	5756.7	5754.2	5667.1
30°	6184.1	6140.6	6073.9	5860.8	5513.3	5226.3	5234.8	5747.0	6057.0	6043.7	5894.8
32.5°	6512.3	6479.6	6466.3	6301.6	5900.8	5519.3	5423.7	5969.8	6427.6	6415.5	6207.2
35°	6764.2	6721.7	6737.5	6654.0	6323.4	5847.5	5654.9	6235.0	6878.0	6876.8	6617.6
37.5°	7013.7	6976.0	6989.4	6933.7	6714.6	6264.1	5937.1	6559.5	7436.3	7462.8	7114.1
40°	7241.3	7201.3	7254.5	7202.5	7018.5	6707.3	6258.0	6926.4	8082.8	8133.7	7714.8
42.5°	7378.2	7346.6	7435.0	7436.3	7282.4	7081.4	6610.4	7330.9	8831.2	8945.1	8453.4
45°	7425.3	7414.4	7547.6	7575.5	7516.1	7298.2	6927.7	7771.7	9637.7	9841.1	9295.0
47.5°	7374.5	7353.9	7538.0	7640.9	7688.1	7399.9	7190.4	8248.8	10461.0	10759.0	10212.9
50°	7117.8	7077.8	7351.5	7568.2	7736.5	7466.5	7455.6	8799.7	11397.2	11722.8	11135.6
52.5°	6656.4	6626.1	6937.3	7313.9	7630.0	7499.2	7753.5	9401.5	12286.0	12707.3	12081.3
55°	6066.7	6026.7	6369.5	6861.0	7364.8	7488.3	8051.4	10074.8	13334.6	13762.1	13058.5
57.5°	5131.9	5051.9	5485.5	6066.7	6932.5	7475.0	8361.3	10744.5	14400.2	14912.4	14101.1
60°	3768.4	3649.7	4181.3	4870.3	6087.3	7345.5	8745.2	11495.2	15678.9	16140.3	15239.4
62.5°	2194.2	2125.1	2472.7	3115.7	4588.1	6582.6	8960.8	12368.3	16935.9	17420.2	16358.3
65°	1703.8	1684.4	1714.6	1764.3	2553.8	4928.4	8295.9	13219.5	18534.3	18873.3	17524.3
67.5°	1558.4	1544.0	1557.3	1464.0	1295.7	2745.2	6563.2	13435.1	20246.5	20452.3	18545.1
70°	1385.3	1368.4	1411.9	1332.0	1019.6	1248.4	4240.6	12652.8	21608.7	21995.1	19321.4
72.5°	1128.5	1109.2	1210.9	1174.5	858.5	801.7	2130.0	10794.1	21465.9	22267.5	18765.6
75°	867.0	856.1	977.2	1007.5	699.9	630.9	1022.0	8023.5	18890.2	19697.9	16173.0
77.5°	673.2	664.8	726.5	836.7	564.3	489.2	628.4	5089.4	14235.5	14377.2	11145.2
80°	504.9	480.7	537.6	647.8	439.5	357.2	426.2	2968.0	8998.3	8156.7	4850.9
82.5°	316.0	303.9	351.2	432.3	310.0	245.8	277.3	1639.6	3606.2	2123.9	936.0
85°	180.4	175.6	191.4	247.0	168.3	141.7	158.7	724.2	658.8	452.8	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°	4595.4	4595.4	4595.4	4595.4	4595.4	4595.4	4595.4	4595.4	4595.4	4595.4	4595.4
2.5°	4608.7	4608.7	4591.8	4565.1	4534.9	4515.5	4484.1	4475.6	4442.9	4433.1	4448.9
5°	4664.5	4654.7	4602.7	4527.6	4424.7	4330.2	4226.1	4160.7	4068.6	4035.9	4060.2
7.5°	4734.7	4708.0	4618.4	4453.7	4238.2	4026.3	3805.9	3638.7	3479.0	3422.1	3429.3
10°	4798.8	4761.3	4608.7	4320.6	3947.6	3580.6	3229.5	2983.7	2797.2	2721.0	2737.9
12.5°	4863.0	4794.0	4544.5	4099.0	3534.6	3037.0	2662.8	2471.5	2356.5	2264.4	2294.7
15°	4923.6	4826.7	4445.2	3802.2	3081.8	2576.8	2300.7	2148.2	2056.1	1995.6	2006.4
17.5°	4993.8	4854.6	4296.3	3425.7	2650.6	2258.4	2033.1	1941.1	1922.9	1915.6	1920.5
20°	5091.9	4880.0	4100.2	3004.3	2333.4	2004.1	1887.8	1879.3	1878.1	1874.5	1886.6
22.5°	5197.3	4910.3	3841.0	2621.6	2063.4	1845.4	1824.8	1807.9	1797.0	1795.8	1809.1
25°	5322.0	4919.9	3516.5	2308.0	1833.3	1770.4	1746.2	1720.7	1713.5	1713.5	1720.7
27.5°	5443.1	4887.3	3138.7	2035.5	1703.8	1701.3	1669.8	1661.4	1660.2	1663.8	1673.5
30°	5564.1	4825.5	2763.3	1783.7	1628.7	1628.7	1617.8	1623.8	1628.7	1640.8	1649.2
32.5°	5727.6	4760.1	2449.6	1597.2	1563.3	1551.1	1562.1	1574.2	1579.0	1594.8	1608.1
35°	5967.3	4714.1	2200.3	1495.5	1495.5	1479.7	1485.8	1483.4	1472.5	1465.2	1482.1
37.5°	6284.7	4711.7	1994.3	1448.2	1438.6	1436.1	1437.4	1421.6	1379.2	1328.4	1329.6
40°	6666.1	4777.0	1835.8	1415.5	1408.2	1422.8	1415.5	1373.2	1257.0	1168.5	1166.1
42.5°	7178.3	4963.6	1734.0	1375.6	1397.4	1415.5	1386.5	1239.9	1161.2	1102.0	1099.5
45°	7781.3	5266.2	1681.9	1333.2	1376.8	1398.6	1258.2	1193.9	1131.0	1059.5	1054.7
47.5°	8464.2	5647.7	1669.8	1293.2	1330.8	1344.1	1203.7	1174.5	1103.1	1025.6	1019.6
50°	9207.8	6099.4	1702.5	1246.0	1264.2	1218.2	1185.5	1158.9	1085.0	1008.7	1000.2
52.5°	9976.7	6597.1	1767.9	1181.8	1197.6	1146.8	1178.2	1155.2	1074.1	971.2	963.9
55°	10732.4	7098.4	1830.9	1106.8	1129.8	1082.6	1157.6	1140.7	1024.4	908.2	902.1
57.5°	11500.1	7597.3	1892.7	1040.2	1064.4	1020.8	1124.9	1102.0	968.7	850.0	847.7
60°	12298.1	8081.6	1921.8	976.0	992.9	963.9	1075.3	1035.4	905.8	790.7	787.1
62.5°	13045.2	8484.8	1874.5	911.8	922.7	910.6	1009.9	956.6	842.8	724.2	722.9
65°	13794.8	8724.6	1729.2	848.8	851.3	845.2	917.9	871.9	769.0	666.0	658.8
67.5°	14474.0	8859.1	1497.9	781.0	775.0	772.5	831.9	779.8	697.5	607.9	600.6
70°	14618.1	8517.5	1144.3	701.1	701.1	695.1	737.5	684.2	618.8	546.1	543.7
72.5°	13351.5	7165.0	812.5	610.3	620.0	607.9	643.0	598.2	538.8	490.5	475.9
75°	10766.3	5254.2	590.9	517.0	534.0	513.4	546.1	514.7	463.8	462.6	416.6
77.5°	7397.5	3248.8	428.7	426.2	438.4	411.7	449.3	432.3	386.3	365.7	342.7
80°	3156.9	1295.7	312.4	329.3	329.3	305.1	348.7	353.6	313.6	303.9	303.9
82.5°	628.4	368.1	219.1	226.4	213.1	205.8	247.0	273.7	377.8	420.1	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	113.8	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)