

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: P969951

Luminaire Tested: **NAV-SB6A-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969951
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-827-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 24098.8 lumens
Efficiency: N/A
Efficacy: 141.0 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



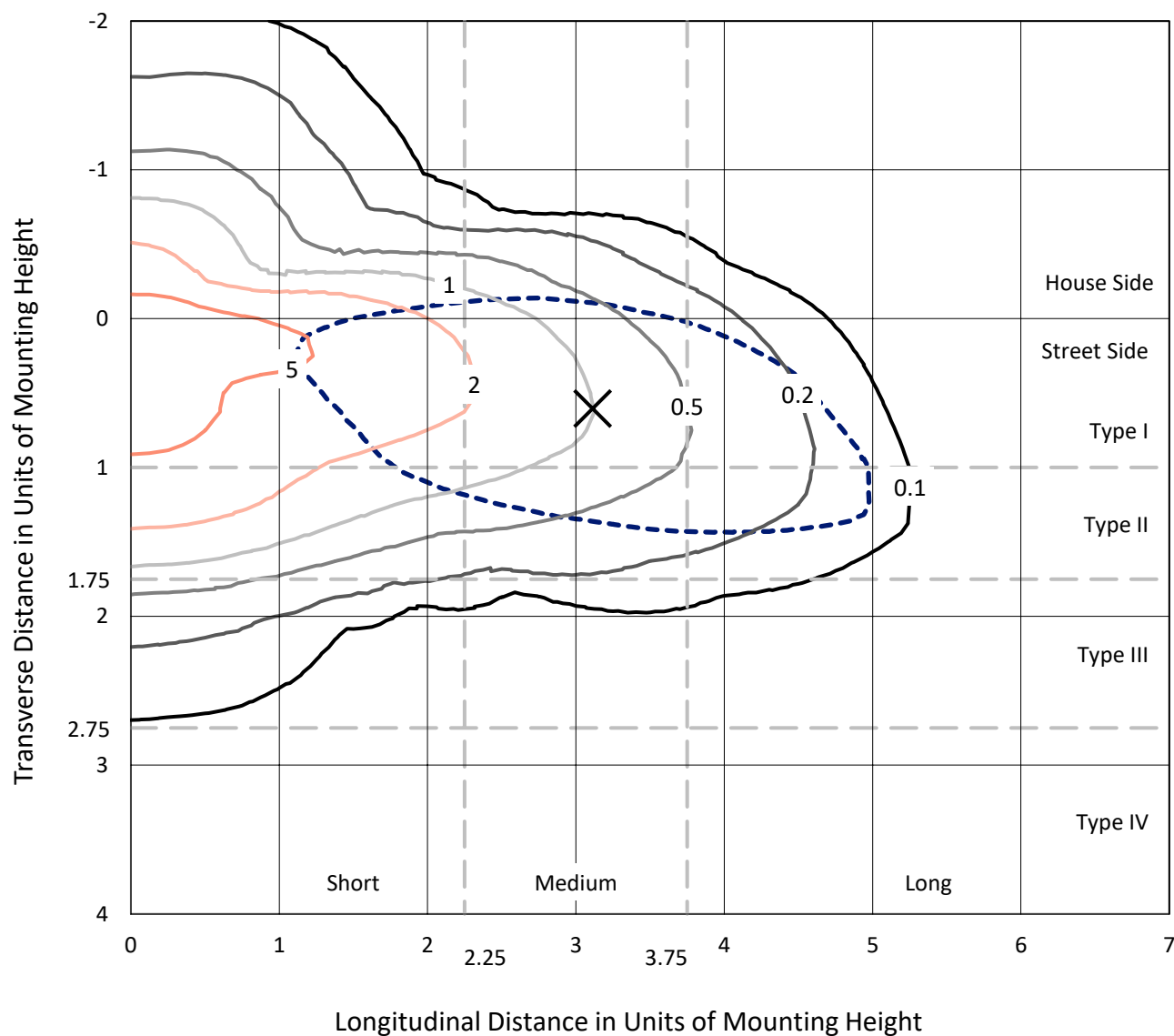
REPORT NUMBER: P969951

CATALOG NUMBER: NAV-SB6A-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

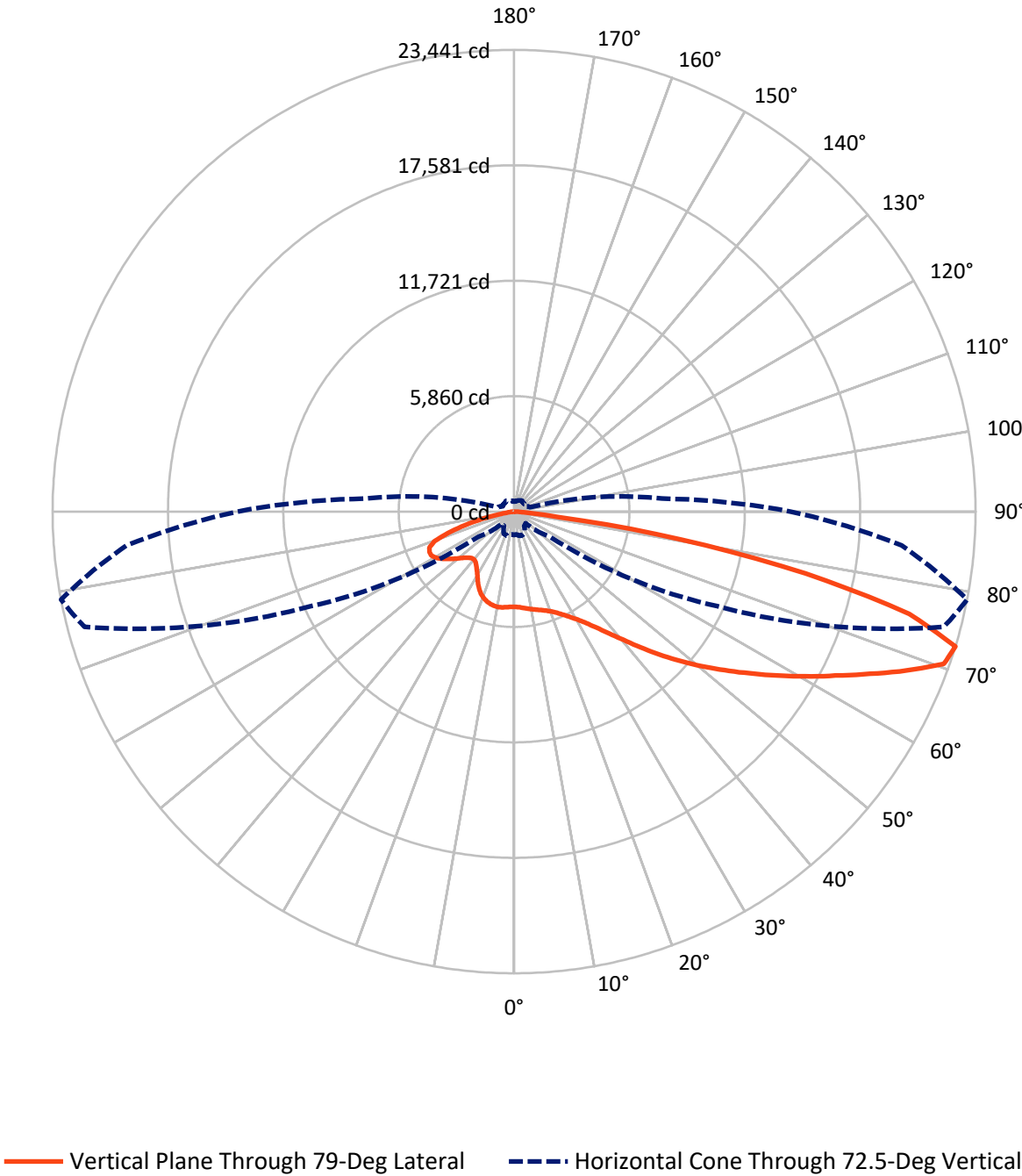
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type II - Medium - N/A

REPORT NUMBER: P969951
CATALOG NUMBER: NAV-SB6A-827-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P969951

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5303.1	0.0	5303.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	18795.7	0.0	18795.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	24098.8	0.0	24098.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.1	1.8
10°-20°	1148.1	4.8
20°-30°	1852.5	7.7
30°-40°	2780.3	11.5
40°-50°	3944.1	16.4
50°-60°	4980.9	20.7
60°-70°	5058.7	21.0
70°-80°	3447.8	14.3
80°-90°	447.3	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°	24098.8	100.0
0°-180°	24098.8	100.0

Coefficient of Utilization



REPORT NUMBER: P969951

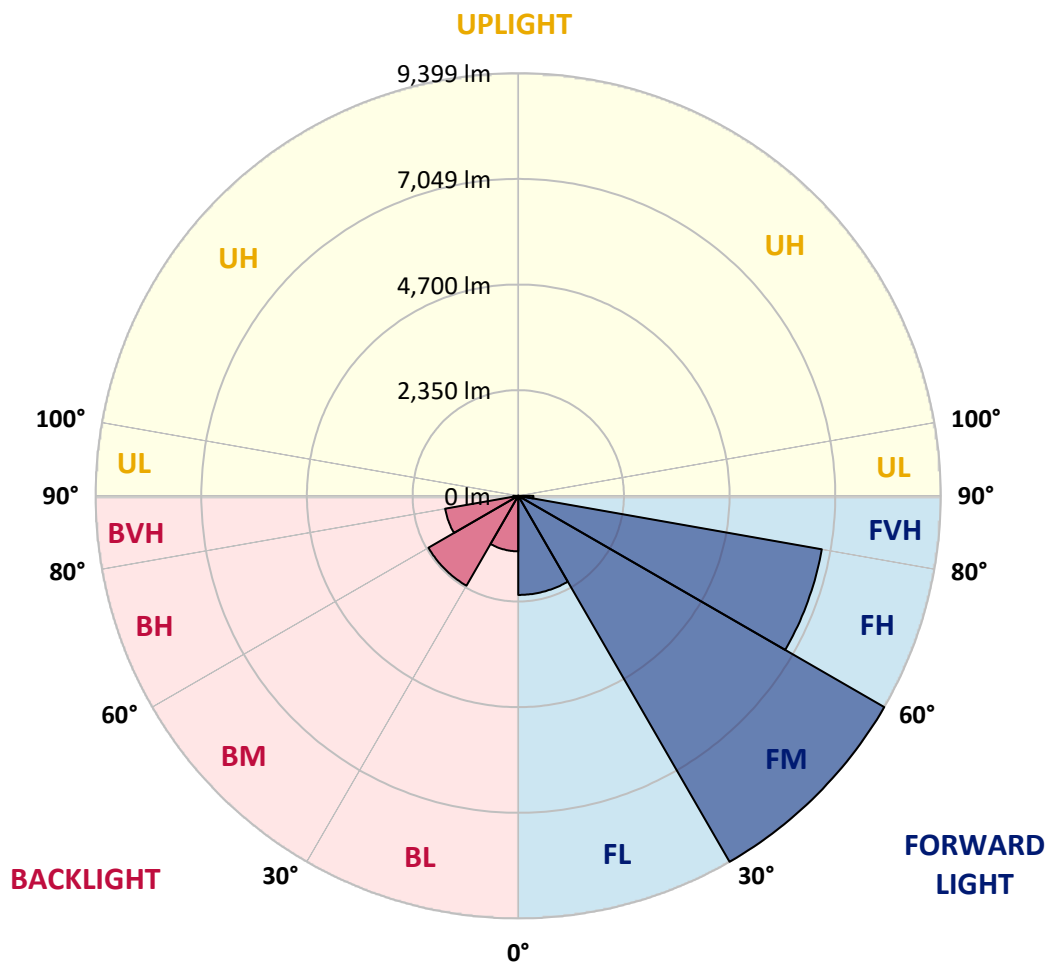
CATALOG NUMBER: NAV-SB6A-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2204.5	9.1			
FM	(30°-60°)	9399.0	39.0			
FH	(60°-80°)	6855.3	28.4			G3/7500
FVH	(80°-90°)	337.0	1.4			G3/500
BL	(0°-30°)	1235.2	5.1	B3/2500		
BM	(30°-60°)	2306.3	9.6	B2/2500		
BH	(60°-80°)	1651.2	6.9	B3/2500		G3/2500
BVH	(80°-90°)	110.4	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



REPORT NUMBER: P969951

CATALOG NUMBER: NAV-SB6A-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4837.6	4837.6	4837.6	4837.6	4837.6	4837.6	4837.6	4837.6	4837.6	4837.6	4837.6
2.5°	4840.2	4817.2	4831.2	4826.1	4832.5	4840.2	4842.7	4846.5	4859.3	4858.0	4856.8
5°	4829.9	4807.0	4826.1	4819.8	4836.4	4854.2	4869.5	4883.5	4903.9	4912.8	4900.0
7.5°	4808.3	4793.0	4812.1	4831.2	4861.8	4888.6	4910.3	4942.1	4971.5	4976.6	4985.5
10°	4682.1	4670.6	4715.2	4764.9	4849.1	4921.7	4968.9	5005.9	5037.8	5042.8	5055.6
12.5°	4550.8	4536.8	4586.5	4654.0	4790.4	4921.7	5021.2	5069.6	5097.6	5114.2	5133.3
15°	4529.1	4517.7	4545.7	4604.3	4717.8	4887.3	5056.8	5146.1	5170.3	5189.5	5197.1
17.5°	4633.6	4612.0	4623.5	4643.9	4710.1	4855.4	5084.9	5232.7	5269.7	5290.1	5290.1
20°	4875.8	4845.3	4827.4	4786.6	4775.2	4860.5	5082.4	5337.3	5385.8	5411.2	5417.6
22.5°	5198.4	5178.0	5139.8	5036.4	4924.3	4923.0	5130.7	5471.1	5561.6	5585.8	5570.6
25°	5588.4	5557.9	5509.4	5369.2	5153.7	5046.7	5212.3	5641.9	5793.6	5800.1	5755.4
27.5°	6037.1	5991.2	5924.9	5740.1	5449.5	5240.4	5337.3	5838.3	6060.1	6057.5	5965.7
30°	6510.1	6464.2	6394.1	6169.7	5803.9	5501.7	5510.7	6049.9	6376.2	6362.2	6205.3
32.5°	6855.5	6821.1	6807.0	6633.7	6211.8	5810.2	5709.6	6284.4	6766.2	6753.5	6534.3
35°	7120.7	7076.0	7092.6	7004.6	6656.7	6155.6	5953.0	6563.6	7240.5	7239.2	6966.4
37.5°	7383.3	7343.7	7357.8	7299.1	7068.4	6594.1	6250.0	6905.2	7828.1	7856.1	7489.1
40°	7622.9	7580.8	7636.9	7582.1	7388.3	7060.7	6587.8	7291.4	8508.8	8562.3	8121.3
42.5°	7766.9	7733.8	7826.8	7828.1	7666.2	7454.6	6958.7	7717.2	9296.6	9416.5	8898.8
45°	7816.6	7805.2	7945.4	7974.7	7912.3	7682.8	7292.8	8181.2	10145.6	10359.8	9784.9
47.5°	7763.1	7741.4	7935.2	8043.6	8093.3	7789.9	7569.3	8683.5	11012.4	11325.9	10751.1
50°	7492.9	7450.8	7738.9	7967.0	8144.2	7860.0	7848.5	9263.4	11997.7	12340.7	11722.4
52.5°	7007.2	6975.3	7302.9	7699.4	8032.1	7894.4	8162.1	9897.0	12933.4	13377.0	12718.0
55°	6386.4	6344.3	6705.0	7222.7	7752.9	7883.0	8475.7	10605.8	14037.4	14487.4	13746.7
57.5°	5402.3	5318.2	5774.5	6386.4	7297.8	7868.9	8802.0	11310.7	15159.1	15698.3	14844.3
60°	3967.0	3842.0	4401.7	5126.9	6408.1	7732.5	9206.1	12101.0	16505.2	16990.9	16042.5
62.5°	2309.8	2237.2	2603.0	3279.9	4829.9	6929.4	9433.0	13020.1	17828.3	18338.3	17220.3
65°	1793.5	1773.1	1805.0	1857.3	2688.4	5188.1	8733.2	13916.2	19511.0	19868.0	18447.8
67.5°	1640.6	1625.2	1639.3	1541.2	1364.0	2889.8	6909.0	14143.2	21313.4	21530.2	19522.5
70°	1458.3	1440.4	1486.4	1402.2	1073.3	1314.3	4464.1	13319.7	22747.5	23154.2	20339.6
72.5°	1188.1	1167.7	1274.7	1236.5	903.7	843.9	2242.3	11362.9	22597.1	23441.0	19754.5
75°	912.7	901.3	1028.7	1060.6	736.8	664.1	1075.8	8446.4	19885.8	20736.1	17025.2
77.5°	708.8	699.9	764.9	880.9	594.0	515.0	661.5	5357.7	14985.7	15134.8	11732.7
80°	531.6	506.0	566.0	681.9	462.7	376.1	448.7	3124.4	9472.5	8586.6	5106.5
82.5°	332.7	320.0	369.7	455.1	326.4	258.8	291.9	1726.0	3796.2	2235.8	985.3
85°	189.9	184.8	201.4	260.0	177.2	149.1	167.0	762.3	693.4	476.7	297.0
87.5°	76.5	73.9	91.7	116.0	65.0	54.8	58.6	183.6	152.9	141.4	98.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P969951

CATALOG NUMBER: NAV-SB6A-827-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4837.6	4837.6	4837.6	4837.6	4837.6	4837.6	4837.6	4837.6	4837.6	4837.6	4837.6
2.5°	4851.6	4851.6	4833.8	4805.7	4773.8	4753.4	4720.3	4711.4	4677.0	4666.8	4683.3
5°	4910.3	4900.0	4845.3	4766.2	4657.9	4558.5	4448.8	4379.9	4283.1	4248.6	4274.1
7.5°	4984.2	4956.2	4861.8	4688.5	4461.5	4238.5	4006.5	3830.5	3662.3	3602.4	3610.0
10°	5051.7	5012.2	4851.6	4548.2	4155.7	3769.3	3399.7	3140.9	2944.6	2864.4	2882.2
12.5°	5119.4	5046.7	4784.1	4314.9	3721.0	3197.0	2803.2	2601.8	2480.6	2383.7	2415.6
15°	5183.0	5081.0	4679.5	4002.6	3244.2	2712.7	2422.0	2261.4	2164.5	2100.7	2112.2
17.5°	5257.0	5110.3	4522.7	3606.3	2790.4	2377.4	2140.3	2043.4	2024.3	2016.6	2021.7
20°	5360.2	5137.2	4316.3	3162.6	2456.4	2109.7	1987.3	1978.4	1977.1	1973.3	1986.0
22.5°	5471.1	5169.1	4043.4	2759.8	2172.2	1942.7	1921.1	1903.2	1891.7	1890.4	1904.4
25°	5602.4	5179.2	3701.8	2429.7	1930.0	1863.7	1838.1	1811.4	1803.7	1803.7	1811.4
27.5°	5730.0	5144.8	3304.1	2142.9	1793.5	1791.0	1757.9	1749.0	1747.6	1751.5	1761.7
30°	5857.4	5079.8	2909.0	1877.7	1714.5	1714.5	1703.0	1709.4	1714.5	1727.2	1736.1
32.5°	6029.5	5010.9	2578.8	1681.4	1645.6	1632.9	1644.4	1657.1	1662.2	1678.8	1692.9
35°	6281.9	4962.5	2316.2	1574.3	1574.3	1557.7	1564.0	1561.6	1550.1	1542.4	1560.3
37.5°	6615.9	4960.0	2099.5	1524.6	1514.3	1511.9	1513.1	1496.5	1451.9	1398.4	1399.6
40°	7017.4	5028.9	1932.5	1490.1	1482.6	1497.8	1490.1	1445.6	1323.2	1230.1	1227.5
42.5°	7556.6	5225.1	1825.4	1448.1	1471.1	1490.1	1459.6	1305.3	1222.4	1160.0	1157.4
45°	8191.4	5543.8	1770.6	1403.4	1449.4	1472.3	1324.4	1256.9	1190.6	1115.4	1110.3
47.5°	8910.3	5945.3	1757.9	1361.4	1401.0	1414.9	1267.1	1236.5	1161.3	1079.7	1073.3
50°	9693.0	6420.8	1792.3	1311.7	1330.9	1282.4	1247.9	1220.0	1142.2	1061.9	1052.9
52.5°	10502.5	6944.7	1861.1	1244.1	1260.8	1207.1	1240.4	1216.1	1130.7	1022.3	1014.6
55°	11298.0	7472.5	1927.4	1165.1	1189.3	1139.6	1218.6	1200.8	1078.4	956.0	949.7
57.5°	12106.1	7997.7	1992.4	1095.0	1120.5	1074.6	1184.2	1160.0	1019.8	894.8	892.3
60°	12946.2	8507.5	2023.0	1027.5	1045.3	1014.6	1132.0	1089.9	953.5	832.4	828.6
62.5°	13732.6	8932.1	1973.3	959.9	971.4	958.6	1063.1	1007.1	887.2	762.3	761.1
65°	14521.7	9184.4	1820.3	893.6	896.2	889.8	966.3	917.8	809.4	701.1	693.4
67.5°	15236.8	9326.0	1576.9	822.2	815.8	813.2	875.8	820.9	734.2	639.9	632.2
70°	15388.5	8966.5	1204.6	738.1	738.1	731.6	776.3	720.3	651.4	574.9	572.4
72.5°	14055.2	7542.6	855.4	642.5	652.6	639.9	676.9	629.8	567.2	516.3	501.0
75°	11333.6	5531.0	622.1	544.3	562.1	540.5	574.9	541.7	488.2	487.0	438.5
77.5°	7787.3	3420.1	451.2	448.7	461.5	433.4	472.9	455.1	406.6	385.0	360.7
80°	3323.3	1364.0	328.9	346.8	346.8	321.2	367.2	372.2	330.2	320.0	320.0
82.5°	661.5	387.6	230.7	238.4	224.4	216.7	260.0	288.1	397.7	442.3	443.6
85°	198.8	142.8	139.0	130.1	114.7	116.0	152.9	289.4	356.9	204.0	175.9
87.5°	54.8	35.7	37.0	29.3	24.2	31.9	52.3	219.2	119.8	50.9	43.4
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)