

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: P885529

Luminaire Tested: **NAV-SB6D-835-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-835-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52150 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

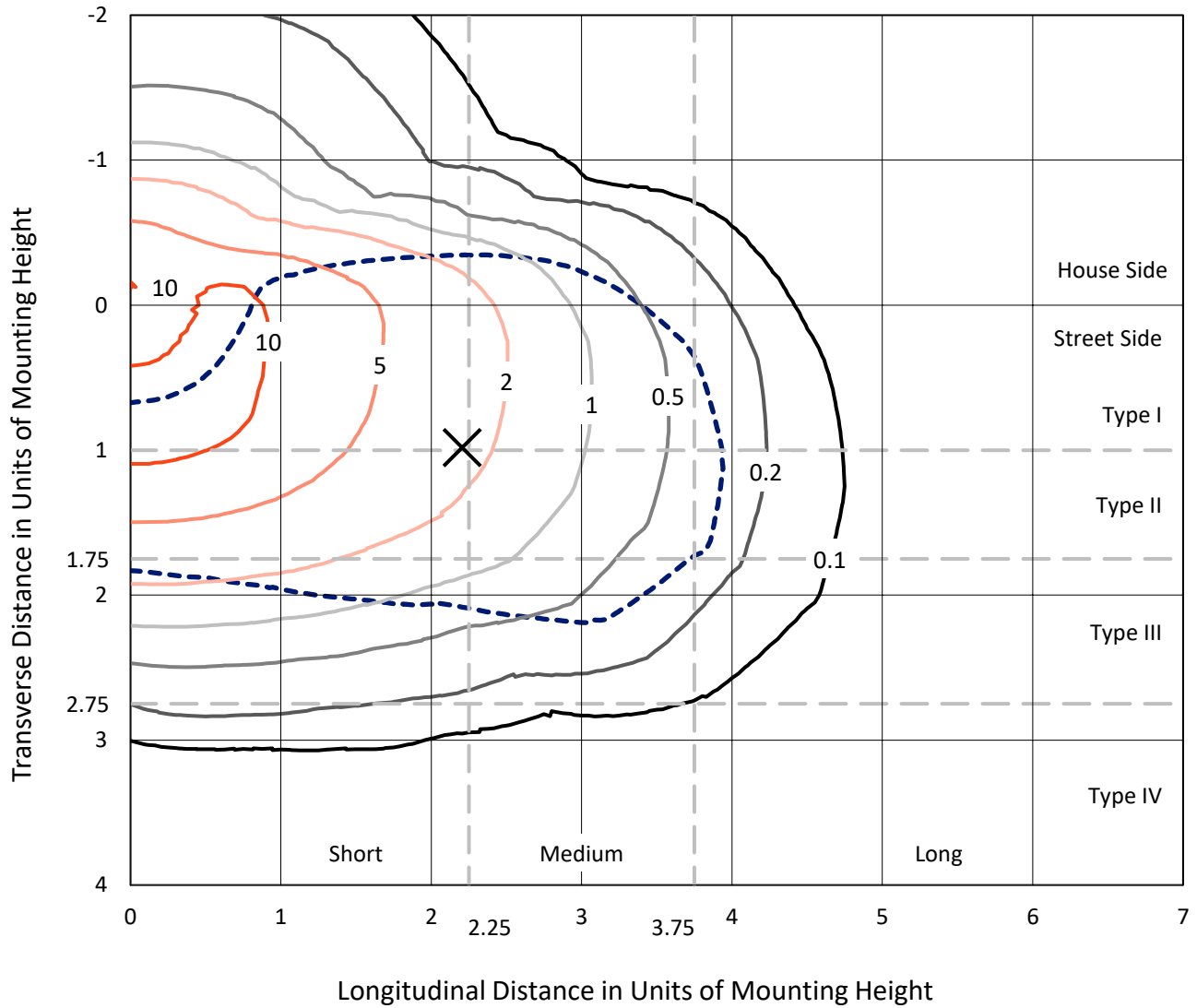
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

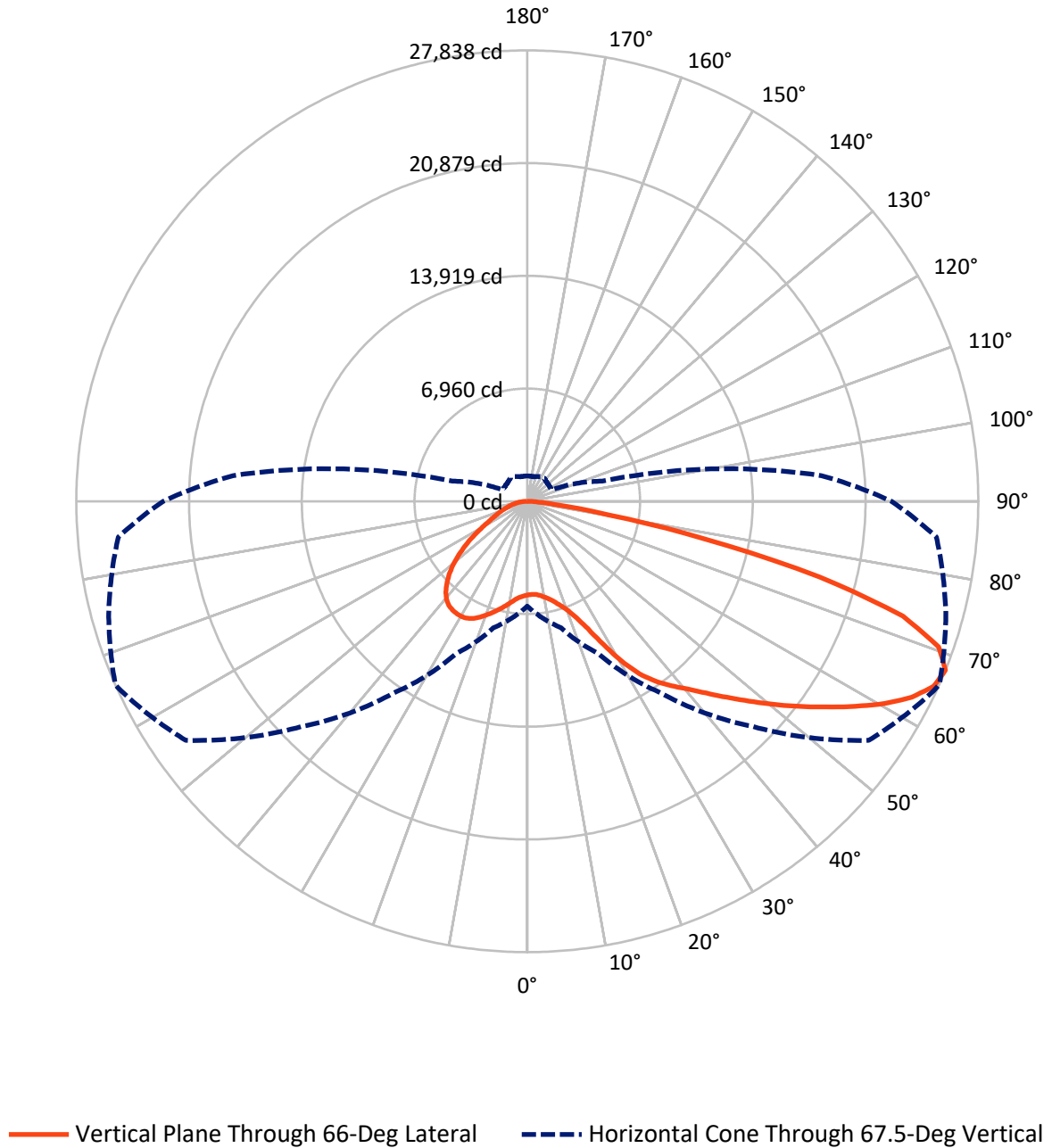
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12966.9	0.0	12966.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	39183.1	0.0	39183.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	52150.0	0.0	52150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.5	1.1
10°-20°	1894.7	3.6
20°-30°	3651.9	7.0
30°-40°	6403.1	12.3
40°-50°	9519.3	18.3
50°-60°	12066.7	23.1
60°-70°	11806.9	22.6
70°-80°	5632.0	10.8
80°-90°	601.9	1.2
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°	52150.0	100.0
0°-180°	52150.0	100.0

Coefficient of Utilization



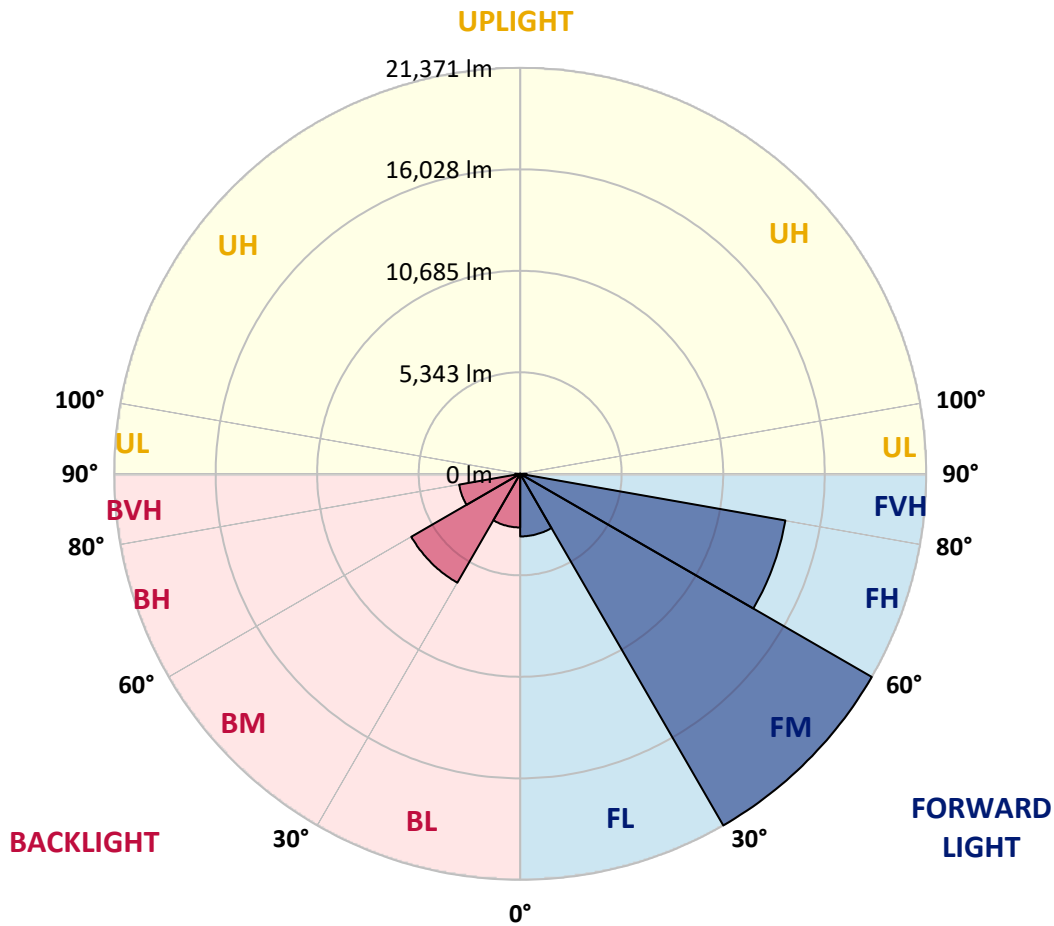
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3295.4	6.3			
FM (30°-60°)	21370.6	41.0			
FH (60°-80°)	14175.8	27.2			G5
FVH (80°-90°)	341.3	0.7			G3/500
BL (0°-30°)	2824.7	5.4	B4/5000		
BM (30°-60°)	6618.5	12.7	B4/8500		
BH (60°-80°)	3263.2	6.3	B4/5000		G4/5000
BVH (80°-90°)	260.6	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1
2.5°	5723.8	5756.7	5748.5	5734.8	5732.1	5737.5	5745.8	5754.0	5751.2	5764.9	5786.9
5°	5707.4	5740.3	5737.5	5737.5	5748.5	5770.4	5784.1	5797.8	5784.1	5800.6	5830.7
7.5°	5718.4	5743.0	5754.0	5764.9	5792.3	5833.4	5866.3	5896.5	5880.0	5899.2	5937.6
10°	5858.1	5877.3	5888.2	5888.2	5907.4	5954.0	5986.9	6041.7	6028.0	6058.1	6107.4
12.5°	6112.9	6132.1	6132.1	6121.1	6134.8	6165.0	6175.9	6236.2	6211.6	6260.9	6310.2
15°	6425.3	6463.6	6433.5	6414.3	6419.8	6449.9	6447.2	6493.8	6469.1	6510.2	6554.1
17.5°	6770.5	6819.8	6770.5	6767.8	6756.8	6789.7	6792.4	6833.5	6789.7	6819.8	6850.0
20°	7178.8	7247.3	7206.2	7219.9	7195.2	7208.9	7222.6	7282.9	7214.4	7236.3	7228.1
22.5°	7754.2	7836.4	7792.5	7844.6	7828.2	7817.2	7814.5	7921.3	7814.5	7822.7	7743.2
25°	8592.6	8691.3	8614.5	8685.8	8685.8	8721.4	8762.5	8899.5	8721.4	8669.3	8463.8
27.5°	9831.1	9929.7	9779.0	9822.9	9809.2	9896.9	9853.0	10192.8	10001.0	9916.0	9502.3
30°	11321.6	11497.0	11212.0	11201.1	11187.4	11327.1	11390.1	11614.8	11420.3	11335.3	10836.7
32.5°	12932.8	13116.3	12776.6	12677.9	12625.9	12710.8	12658.8	12839.6	12705.3	12573.8	11957.3
35°	14637.0	14817.9	14494.6	14302.8	14094.5	13916.4	13730.1	13776.7	13650.6	13450.6	12812.2
37.5°	16248.2	16579.7	16237.2	16031.7	15648.1	15300.1	14779.5	14563.1	14445.2	14261.7	13617.8
40°	17889.4	18078.5	17818.2	17642.8	17226.3	16681.1	15848.1	15390.5	15231.6	15053.5	14508.3
42.5°	19097.7	19278.6	19138.8	19018.3	18692.2	18059.3	16982.5	16409.8	16179.7	15979.6	15516.6
45°	20056.7	20191.0	20103.3	20147.2	20007.4	19393.7	18157.9	17503.1	17264.7	17020.8	16656.4
47.5°	20443.1	20585.6	20725.3	20985.6	21224.0	20771.9	19421.1	18686.7	18434.7	18185.3	17826.4
50°	20399.2	20544.5	20950.0	21503.5	22243.3	22092.6	20752.7	19947.1	19714.2	19429.3	19097.7
52.5°	20048.5	20212.9	20733.5	21654.2	22832.4	23081.7	22109.0	21248.6	21029.4	20689.7	20358.1
55°	19127.9	19226.5	20007.4	21311.7	22972.1	23772.2	23437.9	22635.1	22415.9	21941.9	21580.2
57.5°	17420.9	17563.4	18700.4	20388.3	22621.4	24240.7	24605.1	24092.8	23881.8	23199.5	22821.4
60°	15193.3	15420.7	16722.2	18837.4	21728.1	24238.0	25665.5	25525.8	25350.4	24438.0	24043.4
62.5°	12672.5	12935.5	14187.7	16645.5	20166.3	23550.2	26328.6	26725.9	26635.5	25580.6	25076.4
65°	9732.5	9913.3	11160.0	13809.6	17736.0	22073.4	26405.3	27545.1	27561.6	26449.1	25616.2
67.5°	6480.1	7000.7	8083.0	10362.7	14480.9	19659.4	25731.3	27679.4	27838.3	26747.8	25344.9
70°	3162.0	3846.9	4907.3	6734.9	10362.7	15957.7	23969.5	26577.9	26931.4	25876.5	23728.3
72.5°	1312.5	1534.4	2112.5	3323.6	5948.5	10768.2	20429.4	23591.3	24246.2	22928.3	19949.9
75°	885.0	959.0	1208.3	1704.3	2709.9	5310.1	14732.9	17590.8	18645.6	17316.8	14154.8
77.5°	682.3	728.8	879.5	1191.9	1611.1	2008.4	7885.7	10601.0	11146.3	10318.8	7365.1
80°	537.0	572.7	657.6	868.6	1142.6	1074.1	2687.9	4803.2	5118.3	4293.6	2367.4
82.5°	465.8	479.5	471.3	589.1	759.0	627.5	882.3	1772.8	1956.4	1419.3	772.7
85°	337.0	375.4	391.8	364.4	402.8	317.8	361.7	627.5	690.5	616.5	435.7
87.5°	137.0	202.8	249.3	235.6	148.0	90.4	112.3	183.6	211.0	230.2	142.5
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°	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1	5784.1
2.5°	5789.6	5808.8	5822.5	5838.9	5849.9	5866.3	5899.2	5918.4	5921.1	5934.8	5932.1
5°	5841.7	5869.1	5899.2	5943.0	5992.4	6033.5	6096.5	6140.3	6156.8	6170.5	6167.7
7.5°	5954.0	5992.4	6047.2	6123.9	6195.1	6249.9	6326.6	6378.7	6430.8	6449.9	6452.7
10°	6121.1	6175.9	6255.4	6359.5	6436.2	6507.5	6586.9	6630.8	6682.8	6704.8	6715.7
12.5°	6329.4	6386.9	6491.0	6636.3	6707.5	6756.8	6784.2	6773.3	6784.2	6803.4	6808.9
15°	6567.8	6630.8	6748.6	6904.8	6954.1	6910.3	6850.0	6795.2	6787.0	6792.4	6811.6
17.5°	6850.0	6896.6	7033.6	7165.1	7129.5	6948.6	6817.1	6729.4	6685.6	6671.9	6691.1
20°	7244.5	7244.5	7356.9	7439.1	7200.7	6893.8	6688.3	6545.8	6455.4	6417.1	6408.8
22.5°	7724.0	7680.2	7751.4	7693.9	7187.0	6740.4	6455.4	6208.8	6071.8	6017.0	6008.8
25°	8332.3	8280.3	8261.1	7904.9	7088.4	6496.5	6033.5	5734.8	5614.2	5584.1	5589.6
27.5°	9250.2	9118.7	8869.4	8020.0	6907.5	6112.9	5540.3	5263.5	5195.0	5197.8	5206.0
30°	10472.3	10209.2	9598.2	8039.1	6611.6	5570.4	5036.1	4838.8	4805.9	4819.6	4866.2
32.5°	11603.9	11354.5	10343.5	7951.5	6156.8	5038.8	4584.0	4452.5	4403.2	4419.6	4441.5
35°	12491.6	12423.1	11033.9	7828.2	5597.8	4540.2	4178.5	4066.1	3970.2	3948.3	3964.8
37.5°	13330.1	13302.7	11551.8	7655.5	5044.3	4186.7	3852.4	3704.5	3564.7	3488.0	3490.8
40°	14250.7	14223.3	11891.6	7389.8	4553.9	3879.8	3559.3	3364.7	3192.1	3052.4	3066.1
42.5°	15286.4	15124.8	12053.2	7008.9	4137.4	3619.5	3320.9	3057.8	2830.4	2701.6	2709.9
45°	16418.0	16053.6	12050.5	6523.9	3786.7	3381.2	3066.1	2693.4	2482.4	2361.9	2356.4
47.5°	17618.2	16941.4	11902.5	5986.9	3446.9	3118.1	2671.5	2386.5	2246.8	2172.8	2156.4
50°	18856.6	17771.6	11650.4	5370.4	3098.9	2819.5	2424.9	2230.4	2123.5	2055.0	2030.3
52.5°	20021.1	18525.1	11346.3	4671.7	2745.5	2529.0	2315.3	2164.6	2052.3	1975.5	1942.7
55°	21103.4	19174.5	10916.1	3956.5	2457.8	2334.5	2263.2	2137.2	2008.4	1918.0	1882.4
57.5°	22065.2	19596.4	10173.6	3285.3	2252.3	2200.2	2208.4	2090.6	1942.7	1865.9	1816.6
60°	22865.2	19906.0	9074.9	2663.3	2085.1	2068.7	2123.5	2002.9	1830.3	1742.6	1704.3
62.5°	23344.7	19900.6	7726.8	2181.0	1942.7	1948.1	2011.2	1893.3	1718.0	1635.8	1611.1
65°	23303.6	19412.8	6247.2	1865.9	1805.7	1811.1	1893.3	1772.8	1624.8	1575.5	1572.8
67.5°	22478.9	18223.7	4792.2	1660.4	1655.0	1679.6	1775.5	1690.6	1567.3	1561.8	1570.0
70°	20245.8	15755.0	3452.4	1496.0	1498.8	1534.4	1660.4	1638.5	1537.1	1548.1	1545.4
72.5°	16234.5	12012.1	2318.0	1323.4	1326.2	1383.7	1550.8	1597.4	1507.0	1652.2	1674.1
75°	10812.0	7491.1	1490.6	1139.8	1142.6	1216.6	1454.9	1518.0	1424.8	1646.7	1660.4
77.5°	5195.0	3367.5	1079.6	959.0	959.0	1027.5	1257.7	1359.0	1213.8	1279.6	1172.7
80°	1794.7	1265.9	849.4	772.7	756.2	802.8	1060.4	1178.2	1046.7	964.5	904.2
82.5°	706.9	657.6	682.3	600.1	545.3	575.4	824.7	972.7	769.9	696.0	693.2
85°	405.5	427.4	482.2	397.3	315.1	353.5	605.5	698.7	580.9	512.4	523.3
87.5°	109.6	150.7	221.9	205.5	142.5	150.7	287.7	386.3	334.3	257.6	265.8
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)