

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: P971365

Luminaire Tested: **NAV-SB6D-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-727-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58706.9 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

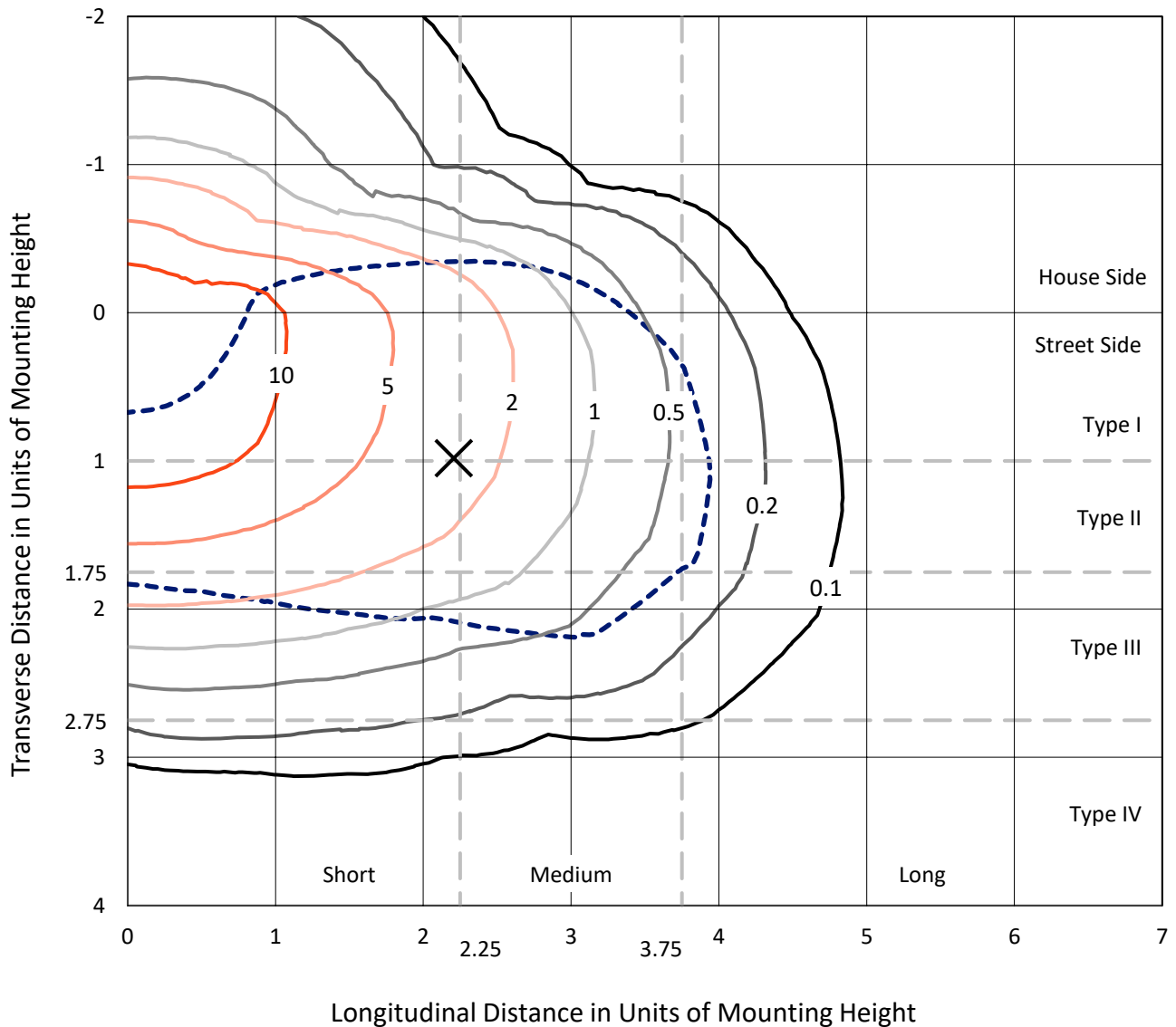
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

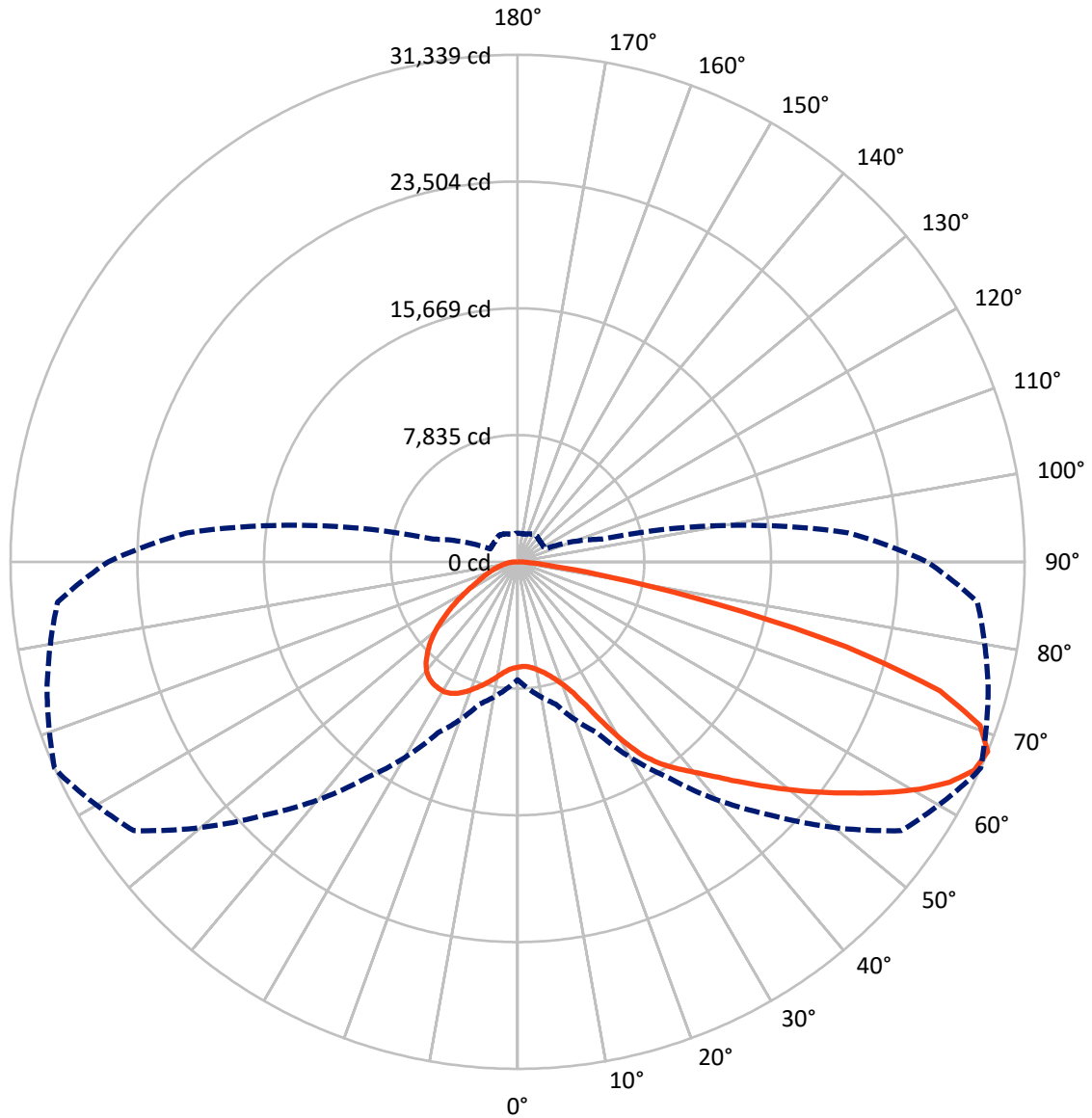
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14597.3	0.0	14597.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	44109.6	0.0	44109.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	58706.9	0.0	58706.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.6	1.1
10°-20°	2132.9	3.6
20°-30°	4111.0	7.0
30°-40°	7208.2	12.3
40°-50°	10716.2	18.3
50°-60°	13583.8	23.1
60°-70°	13291.4	22.6
70°-80°	6340.1	10.8
80°-90°	677.6	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°	58706.9	100.0
0°-180°	58706.9	100.0

Coefficient of Utilization

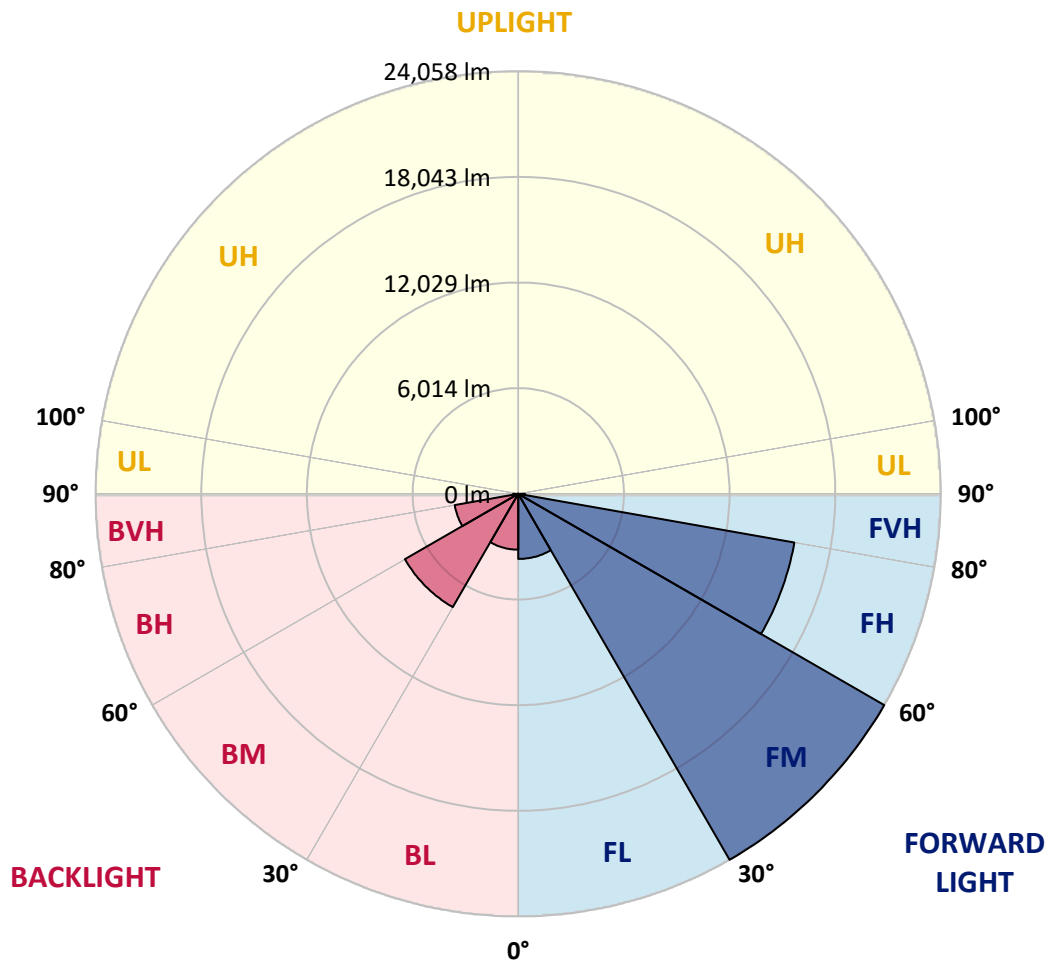


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3709.7	6.3			
FM (30°-60°)	24057.6	41.0			
FH (60°-80°)	15958.1	27.2			G5
FVH (80°-90°)	384.2	0.7			G3/500
BL (0°-30°)	3179.8	5.4	B4/5000		
BM (30°-60°)	7450.6	12.7	B4/8500		
BH (60°-80°)	3673.4	6.3	B4/5000		G4/5000
BVH (80°-90°)	293.4	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°	6511.4	6511.4	6511.4	6511.4	6511.4	6511.4	6511.4	6511.4	6511.4	6511.4	6511.4
2.5°	6443.6	6480.6	6471.2	6455.9	6452.8	6458.9	6468.2	6477.5	6474.3	6489.8	6514.5
5°	6425.0	6462.0	6458.9	6458.9	6471.2	6495.9	6511.4	6526.8	6511.4	6529.9	6563.8
7.5°	6437.3	6465.1	6477.5	6489.8	6520.6	6566.9	6603.9	6637.8	6619.3	6640.9	6684.1
10°	6594.6	6616.3	6628.6	6628.6	6650.2	6702.6	6739.6	6801.3	6785.9	6819.8	6875.3
12.5°	6881.5	6903.1	6903.1	6890.8	6906.1	6940.1	6952.5	7020.3	6992.6	7048.1	7103.6
15°	7233.1	7276.4	7242.3	7220.8	7227.0	7260.9	7257.8	7310.3	7282.5	7328.7	7378.2
17.5°	7621.8	7677.4	7621.8	7618.7	7606.3	7643.4	7646.5	7692.7	7643.4	7677.4	7711.3
20°	8081.4	8158.5	8112.3	8127.6	8099.9	8115.3	8130.7	8198.6	8121.5	8146.2	8136.9
22.5°	8729.1	8821.7	8772.3	8830.9	8812.4	8800.0	8797.0	8917.3	8797.0	8806.2	8716.8
25°	9672.9	9784.0	9697.6	9777.9	9777.9	9818.0	9864.2	10018.5	9818.0	9759.3	9528.0
27.5°	11067.1	11178.2	11008.6	11057.9	11042.5	11141.2	11091.8	11474.4	11258.4	11162.8	10697.0
30°	12745.2	12942.6	12621.7	12609.4	12594.0	12751.3	12822.2	13075.2	12856.2	12760.5	12199.1
32.5°	14558.8	14765.4	14383.0	14272.0	14213.4	14309.0	14250.4	14453.9	14302.8	14154.7	13460.7
35°	16477.4	16681.0	16317.0	16101.1	15866.6	15666.1	15456.4	15508.9	15366.9	15141.8	14423.1
37.5°	18291.0	18664.3	18278.7	18047.4	17615.5	17223.8	16637.8	16394.1	16261.4	16054.8	15329.9
40°	20138.7	20351.5	20058.4	19861.0	19392.2	18778.4	17840.7	17325.6	17146.7	16946.2	16332.4
42.5°	21499.0	21702.5	21545.2	21409.5	21042.4	20330.0	19117.7	18473.1	18213.9	17988.8	17467.5
45°	22578.5	22729.7	22631.0	22680.3	22522.9	21832.1	20441.0	19703.8	19435.4	19160.8	18750.6
47.5°	23013.4	23173.8	23331.2	23624.1	23892.5	23383.5	21862.9	21036.3	20752.5	20471.8	20067.8
50°	22964.1	23127.6	23584.0	24207.1	25039.9	24870.3	23362.0	22455.1	22192.9	21872.2	21499.0
52.5°	22569.3	22754.3	23340.4	24376.8	25703.1	25983.7	24888.7	23920.2	23673.5	23291.0	22917.8
55°	21532.9	21643.9	22522.9	23991.1	25860.4	26761.1	26384.7	25481.0	25234.3	24700.7	24293.5
57.5°	19611.2	19771.6	21051.7	22951.7	25465.6	27288.6	27698.8	27122.0	26884.4	26116.4	25690.8
60°	17103.6	17359.5	18824.6	21205.9	24460.1	27285.4	28892.5	28735.2	28537.7	27510.6	27066.5
62.5°	14265.7	14561.9	15971.6	18738.3	22701.9	26511.2	29638.9	30086.2	29984.3	28796.9	28229.3
65°	10956.1	11159.7	12563.1	15545.9	19966.0	24848.7	29725.3	31008.4	31027.0	29774.6	28836.9
67.5°	7294.8	7880.9	9099.2	11665.5	16301.6	22131.3	28966.5	31159.6	31338.5	30110.8	28531.6
70°	3559.5	4330.6	5524.3	7581.7	11665.5	17964.0	26983.1	29919.6	30317.4	29130.0	26711.7
72.5°	1477.4	1727.3	2378.1	3741.5	6696.4	12122.1	22998.0	26557.5	27294.7	25811.0	22458.2
75°	996.3	1079.5	1360.3	1918.6	3050.6	5977.8	16585.3	19802.5	20989.9	19494.0	15934.5
77.5°	768.0	820.5	990.1	1341.7	1813.6	2260.9	8877.2	11933.9	12547.7	11616.2	8291.1
80°	604.5	644.6	740.3	977.7	1286.3	1209.1	3025.9	5407.1	5761.8	4833.4	2665.0
82.5°	524.4	539.8	530.5	663.2	854.4	706.3	993.2	1995.7	2202.3	1597.8	869.8
85°	379.4	422.6	441.1	410.2	453.5	357.8	407.1	706.3	777.3	694.0	490.5
87.5°	154.3	228.3	280.6	265.3	166.6	101.8	126.5	206.6	237.5	259.1	160.4
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°	6511.4	6511.4	6511.4	6511.4	6511.4	6511.4	6511.4	6511.4	6511.4	6511.4	6511.4
2.5°	6517.6	6539.1	6554.6	6573.0	6585.4	6603.9	6640.9	6662.5	6665.6	6681.1	6678.0
5°	6576.1	6606.9	6640.9	6690.3	6745.8	6792.1	6863.0	6912.4	6930.8	6946.3	6943.2
7.5°	6702.6	6745.8	6807.4	6893.8	6974.0	7035.7	7122.1	7180.7	7239.3	7260.9	7264.0
10°	6890.8	6952.5	7041.9	7159.1	7245.5	7325.7	7415.2	7464.5	7523.1	7547.8	7560.1
12.5°	7125.2	7190.0	7307.1	7470.6	7550.9	7606.3	7637.2	7624.9	7637.2	7658.8	7664.9
15°	7393.5	7464.5	7597.1	7772.9	7828.4	7779.1	7711.3	7649.6	7640.2	7646.5	7668.0
17.5°	7711.3	7763.7	7917.9	8065.9	8025.9	7822.3	7674.2	7575.6	7526.2	7510.8	7532.3
20°	8155.4	8155.4	8281.9	8374.4	8106.0	7760.6	7529.2	7368.8	7267.0	7223.9	7214.7
22.5°	8695.2	8645.9	8726.0	8661.2	8090.6	7587.9	7267.0	6989.5	6835.2	6773.5	6764.3
25°	9380.0	9321.3	9299.7	8898.7	7979.6	7313.4	6792.1	6455.9	6320.2	6286.2	6292.4
27.5°	10413.3	10265.2	9984.5	9028.3	7776.1	6881.5	6236.8	5925.3	5848.2	5851.3	5860.5
30°	11788.9	11492.8	10804.9	9049.9	7442.9	6270.7	5669.3	5447.3	5410.2	5425.6	5478.1
32.5°	13062.8	12782.2	11644.0	8951.2	6930.8	5672.3	5160.4	5012.4	4956.8	4975.2	5000.0
35°	14062.2	13985.1	12421.3	8812.4	6301.6	5111.0	4703.8	4577.3	4469.4	4444.7	4463.3
37.5°	15006.1	14975.2	13004.3	8618.1	5678.6	4713.2	4336.8	4170.2	4013.0	3926.6	3929.6
40°	16042.5	16011.6	13386.7	8318.9	5126.4	4367.6	4006.7	3787.8	3593.4	3436.1	3451.6
42.5°	17208.4	17026.4	13568.6	7890.1	4657.6	4074.6	3738.4	3442.3	3186.3	3041.3	3050.6
45°	18482.3	18072.1	13565.6	7344.2	4262.8	3806.2	3451.6	3032.1	2794.6	2658.8	2652.7
47.5°	19833.3	19071.5	13399.0	6739.6	3880.3	3510.1	3007.4	2686.6	2529.3	2446.0	2427.5
50°	21227.4	20006.1	13115.3	6045.7	3488.6	3173.9	2729.8	2510.7	2390.5	2313.3	2285.6
52.5°	22538.4	20854.2	12772.9	5259.1	3090.7	2846.9	2606.4	2436.7	2310.2	2223.9	2186.9
55°	23756.7	21585.3	12288.6	4454.0	2766.8	2628.0	2547.8	2405.9	2260.9	2159.2	2119.1
57.5°	24839.4	22060.3	11452.7	3698.3	2535.4	2476.8	2486.1	2353.5	2186.9	2100.5	2045.0
60°	25740.1	22408.9	10215.9	2998.1	2347.2	2328.8	2390.5	2254.8	2060.5	1961.7	1918.6
62.5°	26279.9	22402.7	8698.3	2455.3	2186.9	2193.1	2264.0	2131.4	1934.0	1841.4	1813.6
65°	26233.6	21853.6	7032.6	2100.5	2032.7	2038.8	2131.4	1995.7	1829.1	1773.6	1770.5
67.5°	25305.2	20515.0	5394.8	1869.2	1863.0	1890.8	1998.7	1903.1	1764.3	1758.2	1767.4
70°	22791.3	17735.9	3886.5	1684.2	1687.3	1727.3	1869.2	1844.5	1730.4	1742.7	1739.6
72.5°	18275.6	13522.4	2609.4	1489.8	1492.9	1557.7	1745.8	1798.3	1696.5	1860.0	1884.7
75°	12171.5	8433.0	1677.9	1283.2	1286.3	1369.5	1637.8	1708.8	1603.9	1853.8	1869.2
77.5°	5848.2	3790.9	1215.2	1079.5	1079.5	1156.7	1415.8	1529.9	1366.4	1440.4	1320.2
80°	2020.4	1425.1	956.2	869.8	851.4	903.7	1193.7	1326.4	1178.2	1085.8	1017.9
82.5°	795.8	740.3	768.0	675.5	613.8	647.7	928.4	1095.0	866.7	783.5	780.3
85°	456.5	481.1	542.8	447.2	354.8	397.9	681.6	786.6	653.9	576.8	589.2
87.5°	123.4	169.6	249.9	231.3	160.4	169.6	323.9	434.9	376.3	290.0	299.2
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)