

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: P971330

Luminaire Tested: **NAV-SB6D-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51771.7 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

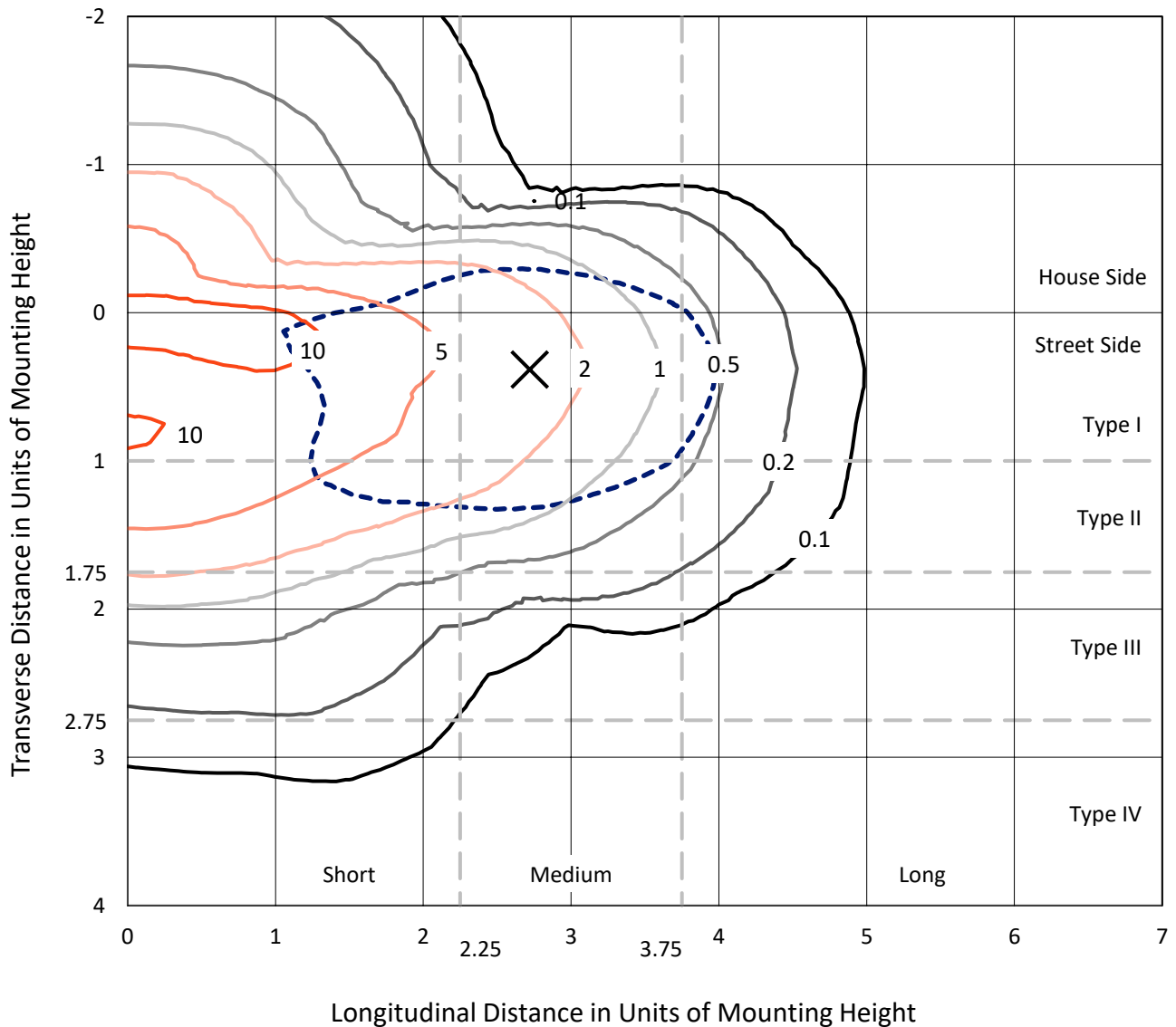
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

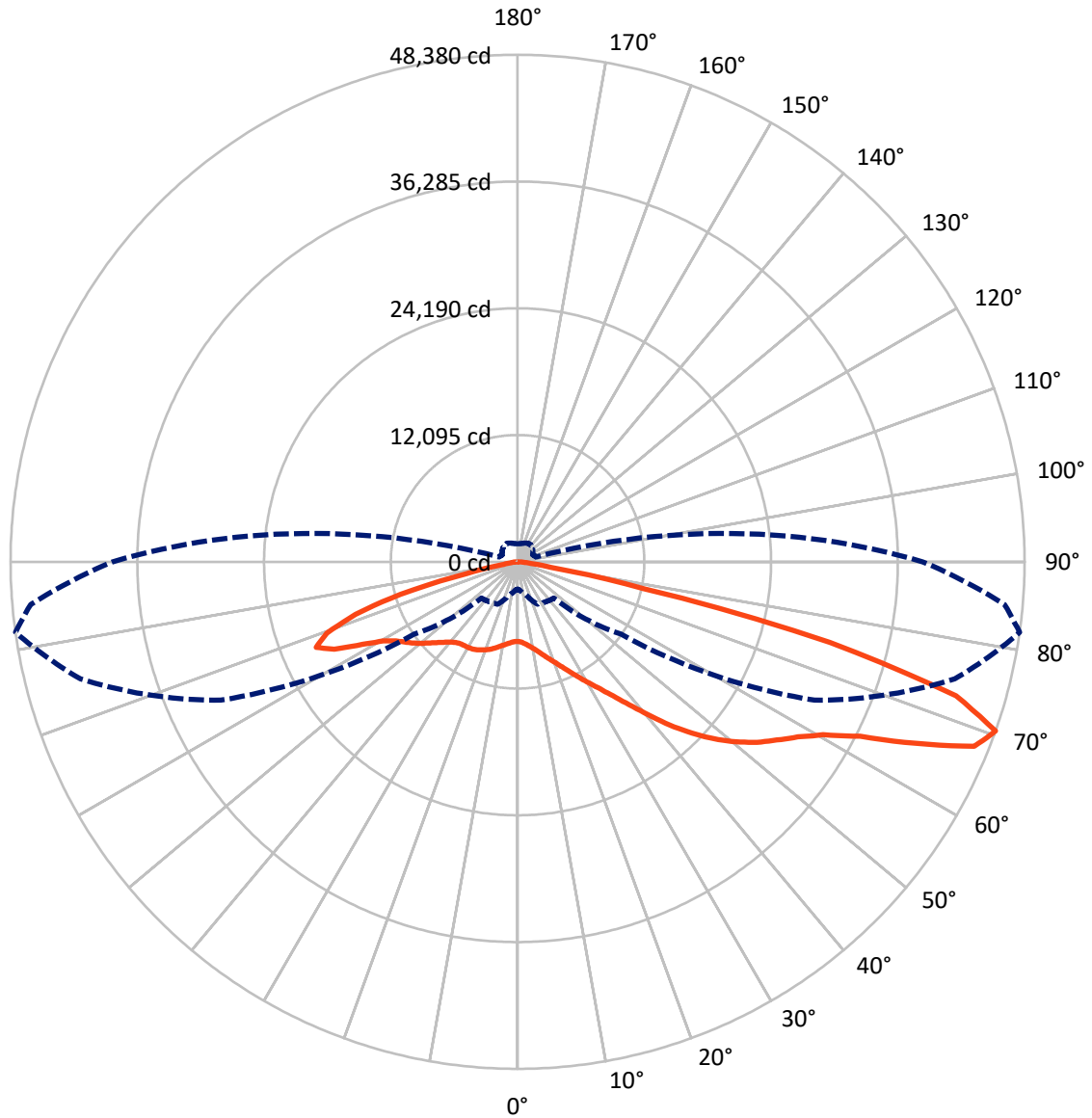
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12763.0	0.0	12763.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	39008.7	0.0	39008.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	51771.7	0.0	51771.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.7	1.4
10°-20°	2059.0	4.0
20°-30°	3444.5	6.7
30°-40°	5381.3	10.4
40°-50°	8570.3	16.6
50°-60°	11926.6	23.0
60°-70°	12475.8	24.1
70°-80°	6520.5	12.6
80°-90°	677.1	1.3
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°	51771.7	100.0
0°-180°	51771.7	100.0

Coefficient of Utilization

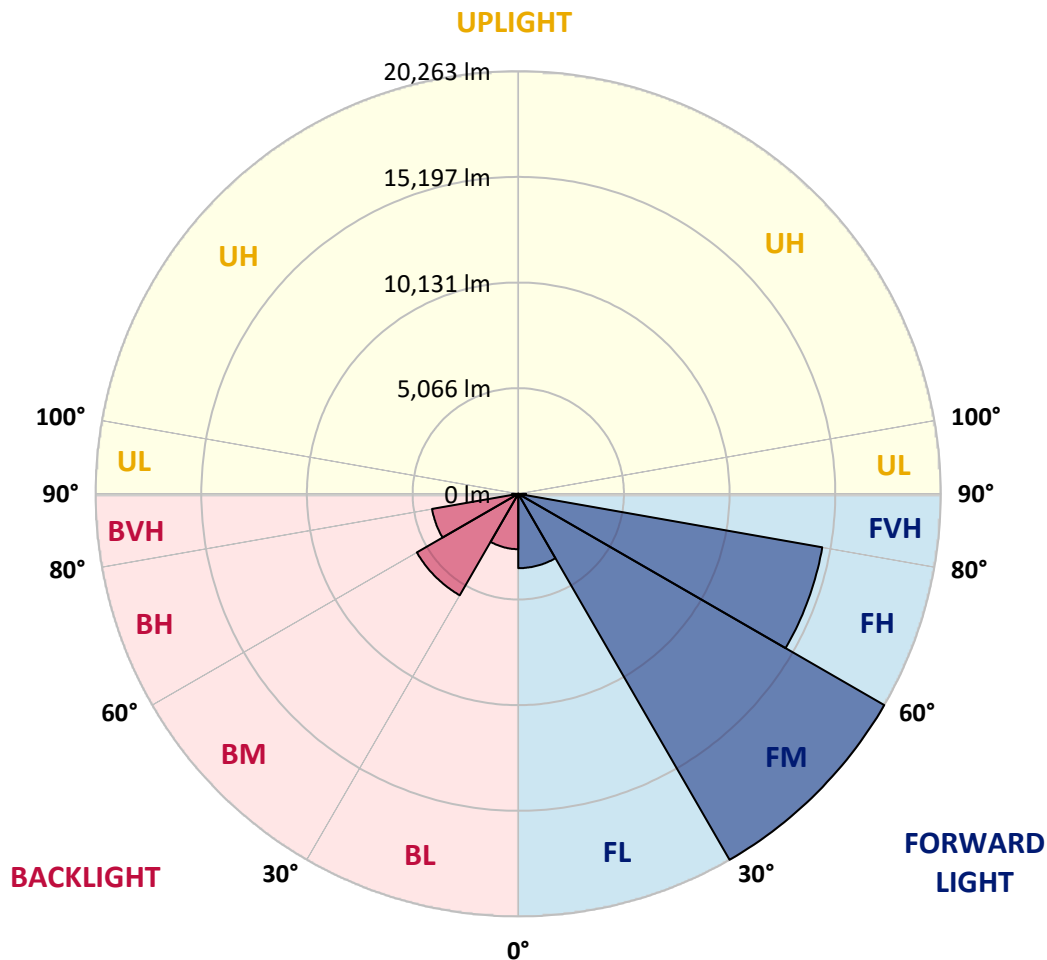


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3565.1	6.9			
FM (30°-60°)	20262.9	39.1			
FH (60°-80°)	14801.7	28.6			G5
FVH (80°-90°)	379.0	0.7			G3/500
BL (0°-30°)	2655.2	5.1	B4/5000		
BM (30°-60°)	5615.2	10.8	B4/8500		
BH (60°-80°)	4194.6	8.1	B4/5000		G4/5000
BVH (80°-90°)	298.0	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	7590.4	7590.4	7590.4	7590.4	7590.4	7590.4	7590.4	7590.4	7590.4	7590.4	7590.4
2.5°	7771.7	7815.6	7801.9	7788.2	7788.2	7769.0	7766.2	7738.7	7716.7	7681.0	7672.8
5°	7870.6	7917.3	7911.8	7922.7	7958.5	7966.7	7975.0	7958.5	7914.5	7870.6	7851.4
7.5°	7782.7	7834.9	7851.4	7917.3	8027.2	8126.1	8200.2	8230.4	8189.2	8126.1	8095.9
10°	7486.0	7543.7	7601.4	7757.9	7953.0	8186.5	8384.3	8502.5	8494.2	8433.8	8381.5
12.5°	6884.4	6944.8	7068.4	7373.3	7730.4	8142.6	8510.7	8757.9	8843.1	8799.1	8708.5
15°	6403.6	6455.8	6549.2	6862.4	7326.7	7953.0	8557.4	9038.1	9255.1	9230.4	9120.6
17.5°	6389.8	6411.9	6469.6	6617.9	6975.0	7656.3	8507.9	9312.8	9727.7	9724.9	9587.5
20°	6631.6	6639.8	6672.9	6703.1	6906.3	7431.0	8381.5	9540.9	10257.9	10257.9	10109.5
22.5°	6966.8	6961.3	6994.3	6966.8	7065.6	7411.8	8301.9	9741.4	10848.5	10892.5	10705.6
25°	7469.5	7442.0	7433.8	7370.6	7389.8	7590.4	8389.8	9969.5	11549.0	11639.7	11406.2
27.5°	8139.8	8095.9	8065.6	7920.1	7870.6	7958.5	8659.0	10244.2	12329.2	12485.8	12189.1
30°	9013.4	8933.7	8889.8	8637.1	8458.5	8472.2	9065.6	10609.5	13145.1	13397.9	13021.5
32.5°	10205.7	10082.0	9963.9	9549.1	9222.2	9115.0	9590.3	11115.0	14029.7	14433.5	13950.0
35°	11540.8	11441.9	11315.5	10675.5	10172.7	9925.5	10299.1	11821.0	15065.3	15705.5	15076.4
37.5°	12826.4	12741.3	12801.7	11939.1	11290.8	10930.9	11227.6	12768.7	16342.8	17287.9	16488.5
40°	14156.1	14090.2	14098.4	13274.3	12518.7	12115.0	12353.9	13958.2	17807.0	19169.7	18186.2
42.5°	15601.1	15551.6	15386.8	14656.1	13807.2	13430.8	13650.6	15331.8	19378.4	21312.4	20048.7
45°	17219.2	17188.9	17035.1	16197.3	15224.7	14801.6	15098.4	16848.3	20958.1	23328.8	21919.5
47.5°	18617.5	18642.2	18622.9	17916.9	16908.7	16287.9	16642.2	18430.6	22427.7	25224.3	23713.4
50°	19290.5	19419.6	19609.2	19389.4	18763.0	18131.2	18199.9	19958.1	23828.8	27001.8	25433.1
52.5°	18938.8	19183.4	19699.8	20051.5	20293.3	20161.3	19977.2	21474.5	25147.5	28606.1	27059.5
55°	17628.5	17971.8	18828.9	19677.8	20911.3	21870.1	22111.8	23155.8	26433.1	30018.2	28597.8
57.5°	15241.2	15798.8	16568.1	18285.1	20361.9	22697.0	24600.7	25488.1	27795.6	31526.3	30207.7
60°	11147.9	11895.1	12851.1	15406.1	18438.9	22254.7	26718.8	29070.3	29732.4	33479.6	32303.8
62.5°	7134.3	7595.9	8475.0	10881.5	14367.6	19988.3	27367.1	33548.2	33015.2	36682.7	35446.5
65°	4884.4	5181.2	5986.0	7337.7	9288.1	14878.6	25630.9	36905.2	38229.3	41759.4	40819.9
67.5°	3549.4	3774.6	4461.4	5645.4	6052.0	8804.6	19889.4	36751.4	43297.8	46990.0	45528.6
70°	2587.8	2747.1	3324.1	4461.4	4656.5	4898.2	12049.0	31240.7	43188.0	48380.1	46630.1
72.5°	1917.5	2027.3	2414.8	3461.4	3769.1	3307.6	5964.1	22705.2	37111.3	43759.4	42355.6
75°	1387.3	1469.7	1755.4	2648.3	3016.4	2519.1	2975.2	13268.7	25886.4	30781.9	31029.1
77.5°	1060.4	1123.6	1310.4	1939.5	2414.8	1890.0	1846.1	6104.2	12274.3	12334.7	13027.0
80°	851.6	892.8	994.5	1365.3	1851.6	1414.8	1203.2	2464.2	3879.0	3282.9	3444.9
82.5°	626.4	695.1	840.6	958.8	1324.1	975.3	733.5	1244.5	1475.2	1269.2	1280.1
85°	357.1	403.8	508.2	686.7	846.1	596.1	420.4	552.2	686.7	563.1	502.8
87.5°	126.4	164.8	178.6	269.3	368.1	247.2	162.1	159.3	225.3	167.6	140.1
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°	7590.4	7590.4	7590.4	7590.4	7590.4	7590.4	7590.4	7590.4	7590.4	7590.4	7590.4
2.5°	7645.4	7631.6	7576.7	7502.5	7425.5	7351.4	7326.7	7274.4	7238.8	7219.5	7241.5
5°	7799.1	7755.3	7626.1	7461.3	7288.2	7101.4	6969.5	6848.6	6760.7	6678.3	6711.3
7.5°	8019.0	7942.0	7719.5	7431.0	7123.3	6813.0	6582.1	6406.4	6288.3	6211.3	6227.8
10°	8274.4	8156.3	7815.6	7384.3	6909.1	6464.1	6192.1	6040.9	5966.8	5925.6	5936.6
12.5°	8568.4	8400.8	7914.5	7277.2	6582.1	6073.9	5887.2	5843.2	5846.0	5848.6	5854.2
15°	8931.0	8697.5	7994.2	7043.7	6156.4	5774.5	5741.5	5813.0	5887.2	5922.9	5920.1
17.5°	9340.3	9010.7	8007.9	6659.1	5738.8	5582.3	5686.6	5840.4	5953.1	6002.5	6013.5
20°	9779.8	9329.3	7909.0	6115.2	5395.4	5425.6	5612.4	5810.2	5933.8	5997.1	6013.5
22.5°	10282.6	9670.0	7672.8	5543.7	5115.2	5255.3	5475.0	5667.3	5796.5	5859.7	5876.1
25°	10856.7	10051.9	7301.9	5063.0	4873.5	5063.0	5282.7	5442.1	5546.5	5604.2	5620.7
27.5°	11494.0	10450.2	6807.4	4681.2	4661.9	4865.2	5046.5	5170.1	5225.0	5269.0	5285.5
30°	12134.2	10812.8	6208.5	4392.7	4477.8	4670.2	4799.3	4854.2	4870.7	4878.9	4898.2
32.5°	12826.4	11126.0	5579.5	4153.7	4302.0	4480.6	4557.6	4582.3	4505.3	4453.1	4469.6
35°	13664.4	11461.1	4964.1	3964.2	4129.0	4282.9	4307.6	4285.5	4194.9	4087.8	4093.2
37.5°	14700.0	11878.7	4472.4	3829.5	3966.9	4068.5	4038.3	4032.9	4041.1	3914.7	3923.0
40°	15969.2	12422.6	4112.5	3725.2	3835.0	3857.0	3771.8	3818.5	3859.7	3667.4	3673.0
42.5°	17378.5	13079.2	3884.4	3653.7	3725.2	3673.0	3541.1	3593.2	3587.8	3335.0	3332.3
45°	18815.2	13793.4	3804.8	3601.5	3623.5	3519.1	3373.5	3387.2	3271.9	3043.8	3052.0
47.5°	20243.8	14559.9	3854.2	3557.6	3497.1	3379.0	3266.4	3205.9	3035.6	2865.3	2865.3
50°	21644.8	15364.9	4035.5	3469.6	3324.1	3255.4	3173.0	3065.8	2884.6	2738.9	2727.9
52.5°	22944.2	16175.2	4238.9	3324.1	3107.0	3148.3	3096.0	2972.4	2793.8	2645.5	2648.3
55°	24174.9	16985.7	4318.5	3123.5	2903.7	3054.8	3024.6	2796.6	2582.3	2461.4	2450.5
57.5°	25515.5	17960.9	4230.6	2868.1	2738.9	2947.7	2832.3	2579.6	2456.0	2365.3	2357.1
60°	27372.6	19491.1	4041.1	2552.1	2582.3	2788.4	2590.6	2486.1	2351.6	2249.9	2244.4
62.5°	30457.7	22345.3	3736.1	2238.9	2398.3	2552.1	2475.2	2370.8	2233.5	2134.6	2134.6
65°	35018.0	26312.3	3162.0	1994.4	2192.3	2321.3	2351.6	2247.2	2104.3	1999.9	2005.4
67.5°	38864.0	28801.2	2392.8	1791.2	1980.7	2134.6	2219.7	2118.1	1967.0	1865.3	1868.1
70°	38652.4	26993.5	1826.9	1590.6	1793.9	1950.5	2060.4	1980.7	1818.7	1722.5	1730.7
72.5°	34331.1	22581.6	1477.9	1387.3	1604.3	1758.2	1890.0	1829.6	1664.8	1571.3	1571.3
75°	25221.6	16029.7	1181.3	1181.3	1368.1	1557.6	1703.2	1664.8	1513.7	1447.7	1428.5
77.5°	10631.5	6725.0	925.8	980.7	1137.3	1337.8	1519.2	1532.9	1401.1	1483.5	1346.1
80°	2826.8	1854.3	706.0	771.9	892.8	1104.3	1321.4	1315.9	1173.0	1096.1	1019.2
82.5°	1076.9	730.7	502.8	544.0	645.5	846.1	1046.6	1079.6	936.7	810.4	810.4
85°	414.8	313.1	310.5	326.9	376.4	560.5	791.2	818.7	706.0	598.9	618.1
87.5°	107.1	93.4	115.4	109.9	173.0	299.4	453.3	469.8	431.3	250.0	357.1
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)