

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: P971333

Luminaire Tested: **NAV-SB6D-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-722-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53640.3 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

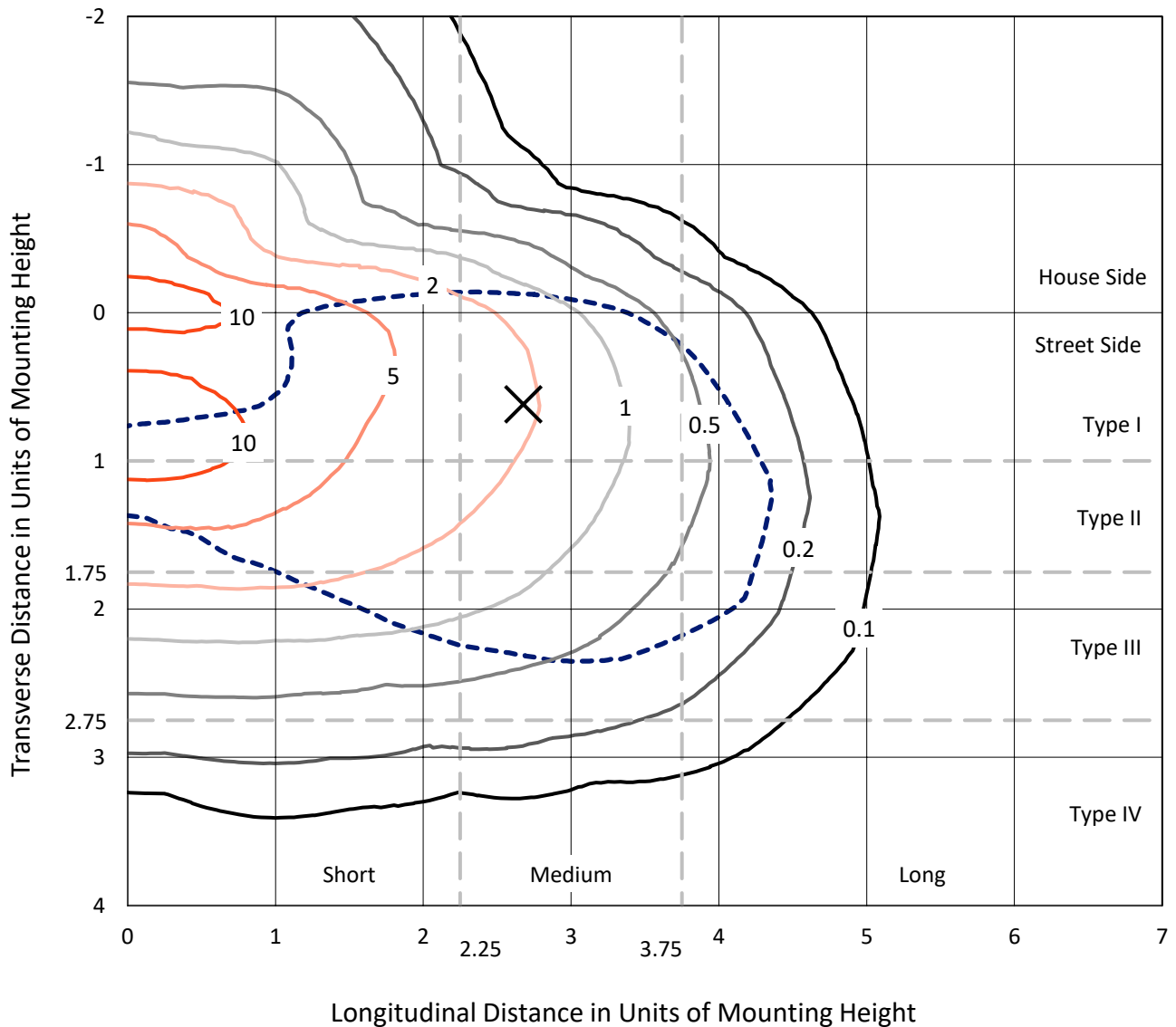
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

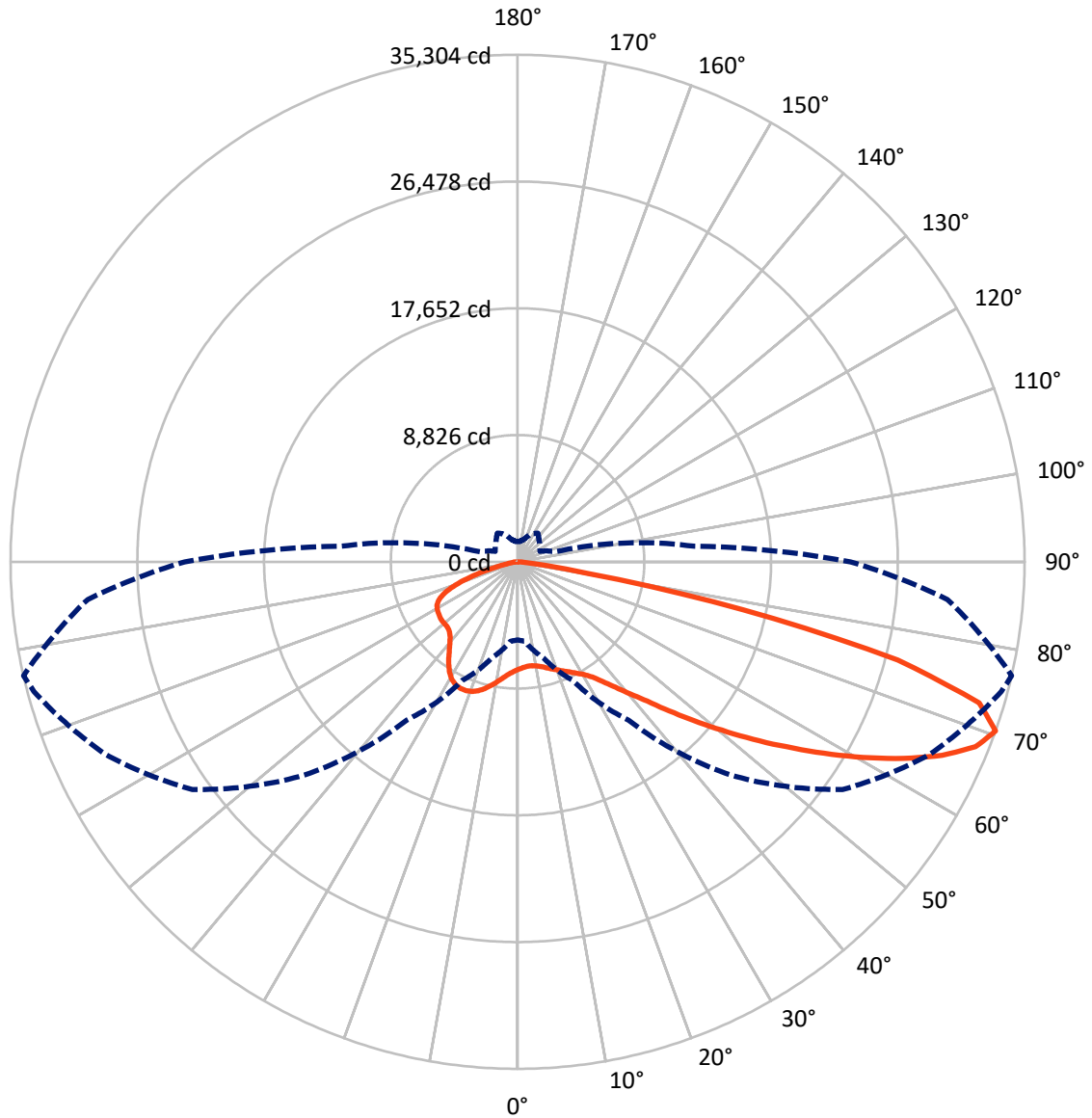
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11746.4	0.0	11746.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	41893.9	0.0	41893.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	53640.3	0.0	53640.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	713.7	1.3
10°-20°	2059.8	3.8
20°-30°	3522.6	6.6
30°-40°	5664.7	10.6
40°-50°	8844.1	16.5
50°-60°	11813.6	22.0
60°-70°	12591.4	23.5
70°-80°	7751.2	14.5
80°-90°	679.2	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°	53640.3	100.0
0°-180°	53640.3	100.0

Coefficient of Utilization

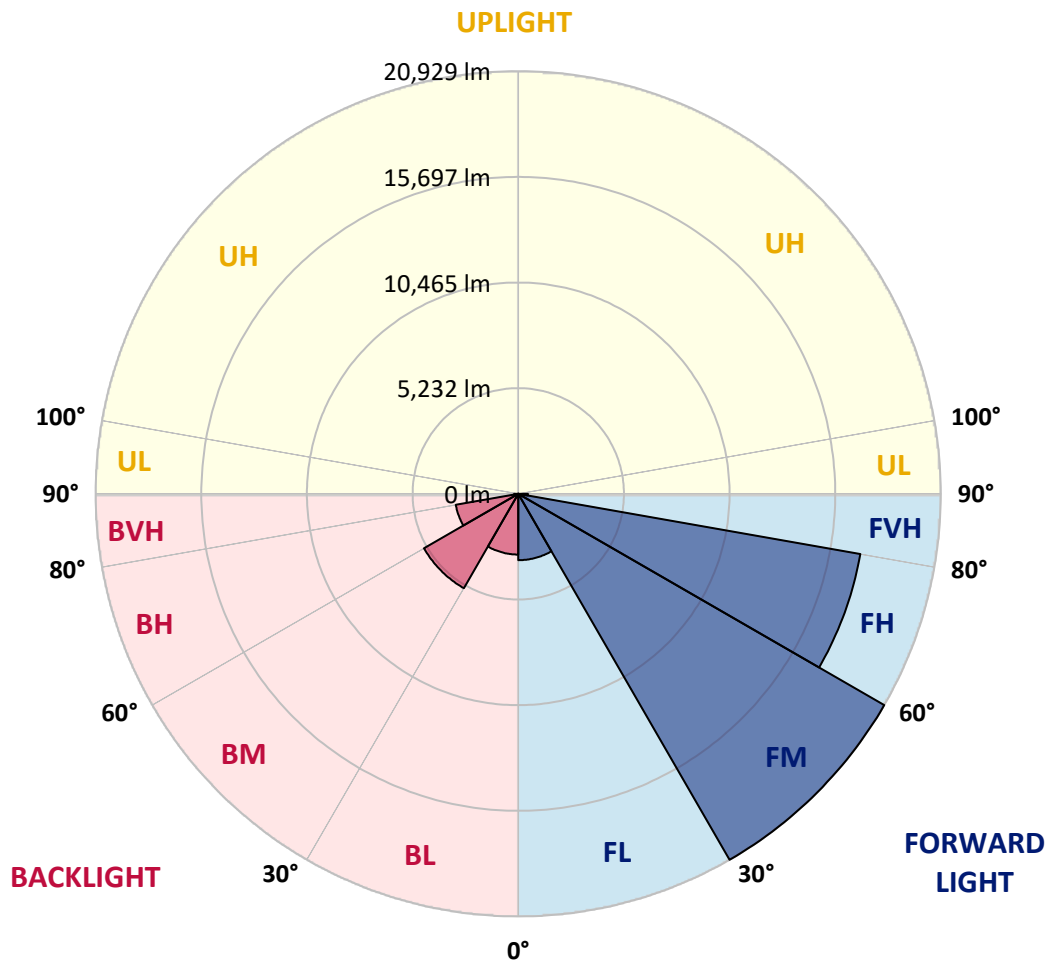


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3286.3	6.1			
FM (30°-60°)	20929.3	39.0			
FH (60°-80°)	17203.3	32.1			G5
FVH (80°-90°)	474.9	0.9			G3/500
BL (0°-30°)	3009.8	5.6	B4/5000		
BM (30°-60°)	5393.0	10.1	B4/8500		
BH (60°-80°)	3139.3	5.9	B4/5000		G4/5000
BVH (80°-90°)	204.3	0.4			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	7483.3	7483.3	7483.3	7483.3	7483.3	7483.3	7483.3	7483.3	7483.3	7483.3	7483.3
2.5°	6898.1	6895.4	6931.2	6942.1	7008.0	7054.8	7142.6	7236.1	7356.9	7370.7	7444.9
5°	6499.8	6499.8	6541.0	6585.0	6670.2	6763.6	6898.1	7060.2	7269.0	7302.0	7486.1
7.5°	6161.9	6183.9	6219.6	6304.8	6403.7	6538.3	6744.3	6975.1	7249.8	7302.0	7598.7
10°	5890.0	5914.7	5958.6	6027.3	6175.6	6362.5	6631.6	6928.4	7296.5	7378.9	7763.6
12.5°	5804.8	5829.5	5854.2	5906.5	6043.8	6263.6	6585.0	6950.3	7409.1	7491.5	7988.7
15°	6002.6	6032.8	6013.6	5999.8	6071.3	6271.8	6606.9	7030.1	7549.2	7667.4	8266.2
17.5°	6458.6	6469.6	6425.6	6296.6	6285.5	6392.7	6711.4	7139.9	7725.0	7854.2	8546.4
20°	7194.9	7175.6	7085.0	6829.5	6683.9	6661.9	6889.9	7304.8	7906.3	8043.7	8848.6
22.5°	8194.9	8172.8	7991.5	7587.7	7263.6	7049.2	7148.1	7519.0	8109.7	8263.6	9142.6
25°	9442.1	9411.9	9145.4	8596.0	8093.2	7563.0	7499.8	7802.0	8359.7	8502.5	9450.3
27.5°	10898.0	10873.3	10584.9	9859.6	9134.4	8266.2	7936.6	8134.4	8620.7	8782.7	9796.4
30°	12463.9	12535.3	12024.4	11244.1	10326.7	9183.8	8524.5	8543.7	8958.5	9104.2	10216.8
32.5°	14304.6	14428.2	13812.8	12823.8	11571.1	10181.0	9266.2	9115.1	9450.3	9571.1	10746.9
35°	16128.7	16268.8	15757.8	14664.5	13222.2	11356.8	10040.9	9771.7	10104.1	10236.0	11450.3
37.5°	17705.5	17892.4	17628.7	16678.1	14988.6	12774.4	11051.9	10543.7	10909.1	11073.9	12395.2
40°	18950.0	19235.8	19216.5	18623.1	17071.0	14494.1	12334.8	11496.9	11909.1	12087.6	13540.9
42.5°	19961.0	20208.3	20422.5	20392.3	19244.0	16447.4	13843.0	12735.9	13049.1	13255.1	14829.3
45°	20658.8	20922.5	21384.1	21881.3	21334.6	18537.9	15571.0	14205.7	14491.3	14801.8	16364.9
47.5°	21282.4	21581.8	22180.7	22969.1	23109.2	20636.8	17463.8	15917.1	16178.1	16499.5	17906.1
50°	21337.3	21595.5	22524.1	23642.2	24370.2	22653.2	19496.7	17837.5	18081.9	18425.3	19557.2
52.5°	20010.5	20417.0	22037.8	23623.0	24949.8	24340.0	21515.9	19834.6	20109.4	20521.4	21265.9
55°	15532.5	16128.7	20612.0	22886.7	24743.8	25430.7	23436.2	21958.2	22309.8	22741.2	22985.6
57.5°	13378.7	13639.8	16362.2	21546.1	23804.3	25713.6	25057.0	24103.7	24669.7	25142.1	24804.3
60°	12024.4	12241.5	13851.2	19461.0	22568.0	25265.8	26309.7	26103.7	27081.6	27644.9	26664.1
62.5°	10573.9	10779.9	12244.1	16249.5	20985.6	24521.3	27100.9	27949.8	29554.1	30169.5	28416.8
65°	9134.4	9310.2	10714.0	13653.5	18974.8	23776.8	27510.3	29545.9	31842.5	32479.9	29872.8
67.5°	7530.1	7675.6	9002.5	11518.9	16529.8	22757.7	27713.5	30801.4	33834.2	34381.0	30592.6
70°	5433.9	5546.6	6917.4	9109.7	13461.1	21004.9	27631.1	31691.5	34867.2	35304.0	30048.6
72.5°	2568.6	2670.2	4280.1	5914.7	9508.0	17592.9	25963.6	30985.4	33817.7	33600.7	26719.1
75°	1370.8	1458.8	2458.8	3244.4	5021.9	12060.2	21246.7	26691.6	28397.5	27342.7	19746.7
77.5°	928.5	997.2	1521.9	1947.7	2293.8	5725.1	13656.2	18480.2	17779.8	16038.1	9889.8
80°	736.3	807.7	1247.2	1318.7	1109.9	2068.7	5642.7	8554.8	6145.4	4914.7	2813.1
82.5°	565.9	645.5	1049.4	956.0	604.3	848.9	1642.8	2706.0	1574.1	1197.8	681.3
85°	346.1	431.3	824.2	609.9	340.6	387.3	557.7	752.8	480.7	401.1	244.5
87.5°	175.8	247.2	417.6	222.5	153.9	90.6	148.3	148.3	126.4	109.9	63.1
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°	7483.3	7483.3	7483.3	7483.3	7483.3	7483.3	7483.3	7483.3	7483.3	7483.3	7483.3
2.5°	7510.8	7565.7	7659.1	7747.1	7815.7	7881.6	7947.5	7983.3	7994.3	8038.3	8063.0
5°	7598.7	7700.3	7881.6	8052.0	8159.1	8225.0	8271.8	8299.2	8304.8	8318.5	8340.4
7.5°	7760.8	7922.8	8175.6	8346.0	8425.6	8420.1	8400.9	8332.2	8304.8	8279.9	8285.5
10°	7988.7	8203.1	8513.5	8631.6	8582.2	8450.3	8279.9	8079.5	7986.1	7895.4	7867.9
12.5°	8271.8	8543.7	8848.6	8843.2	8598.6	8260.8	7865.1	7557.5	7362.5	7222.4	7189.4
15°	8615.1	8928.4	9161.9	8975.0	8439.3	7832.2	7252.6	6851.5	6675.6	6521.8	6505.3
17.5°	8969.6	9304.6	9411.9	8933.8	8038.3	7197.7	6541.0	6225.1	6052.0	5969.6	5994.3
20°	9315.7	9648.1	9560.2	8697.5	7428.4	6477.8	5892.7	5719.6	5683.9	5703.1	5694.9
22.5°	9681.0	9977.8	9590.4	8241.5	6650.9	5741.6	5420.2	5425.6	5505.4	5563.1	5576.8
25°	10054.6	10255.2	9510.8	7582.2	5815.7	5200.4	5120.7	5208.6	5365.3	5477.9	5508.0
27.5°	10414.5	10502.5	9337.6	6766.3	5098.8	4813.1	4826.8	5008.2	5244.4	5400.9	5439.4
30°	10821.1	10722.2	9005.2	5848.8	4601.5	4480.7	4596.0	4807.6	5043.8	5183.9	5216.8
32.5°	11279.9	10911.7	8477.8	4999.8	4249.9	4214.2	4403.7	4541.1	4645.5	4686.7	4708.6
35°	11851.4	11178.2	7802.0	4403.7	3934.0	4019.1	4200.4	4131.8	4090.6	4068.5	4090.6
37.5°	12593.0	11538.1	7010.8	4016.4	3678.5	3879.0	3953.2	3738.9	3576.8	3497.2	3516.4
40°	13485.9	12065.6	6249.8	3717.0	3516.4	3758.2	3629.0	3370.8	3164.8	3052.1	3060.3
42.5°	14477.6	12617.7	5609.7	3491.7	3425.8	3659.2	3390.0	3082.4	2750.0	2714.2	2750.0
45°	15518.8	13186.4	5173.0	3318.5	3381.8	3574.1	3252.6	2755.4	2519.1	2664.8	2741.7
47.5°	16560.0	13708.5	4909.2	3189.5	3359.8	3477.9	3131.8	2574.1	2406.5	2618.1	2717.0
50°	17719.3	14175.4	4791.1	3096.1	3335.0	3439.5	2950.5	2527.4	2288.4	2428.5	2532.9
52.5°	18870.4	14538.1	4703.2	3002.6	3299.4	3409.3	2862.5	2472.5	2145.5	2153.8	2211.4
55°	20018.7	14774.4	4607.1	2879.0	3219.7	3343.3	2854.3	2412.0	2038.4	2000.0	2027.4
57.5°	21243.9	14908.9	4488.9	2741.7	3082.4	3175.8	2846.1	2365.3	2005.4	1942.3	1950.5
60°	22491.2	15106.8	4335.0	2574.1	2898.3	2975.2	2826.8	2348.8	1986.2	1879.0	1887.3
62.5°	23609.2	15175.4	4150.9	2414.8	2662.0	2777.4	2785.6	2335.1	1934.0	1750.0	1750.0
65°	24342.7	14878.7	3829.6	2233.5	2406.5	2574.1	2706.0	2288.4	1840.6	1656.5	1656.5
67.5°	24312.5	14032.6	3326.8	2000.0	2159.3	2348.8	2590.6	2208.8	1727.9	1541.2	1549.4
70°	23180.7	12362.3	2689.5	1727.9	1887.3	2107.1	2442.3	2090.6	1593.4	1414.8	1431.3
72.5°	19881.3	9675.6	1953.2	1409.3	1571.4	1857.1	2250.0	1947.7	1456.0	1302.2	1294.0
75°	14202.9	6123.5	1324.1	1082.4	1222.5	1574.1	2010.9	1780.2	1329.6	1307.7	1233.5
77.5°	7255.3	2925.8	876.4	791.2	851.7	1241.7	1689.5	1590.6	1348.9	1079.6	961.6
80°	2359.9	1079.6	552.2	538.4	565.9	826.9	1307.7	1304.9	1021.9	733.5	648.3
82.5°	752.8	464.2	359.9	346.1	332.4	519.3	912.0	1032.9	689.5	464.2	461.6
85°	299.4	277.5	211.6	195.1	140.1	244.5	478.1	686.7	513.7	335.2	343.4
87.5°	109.9	109.9	57.7	41.2	30.2	82.4	129.1	206.0	294.0	173.1	170.4
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)