

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: P970275

Luminaire Tested: **NAV-SB6B-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-722-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29300.6 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

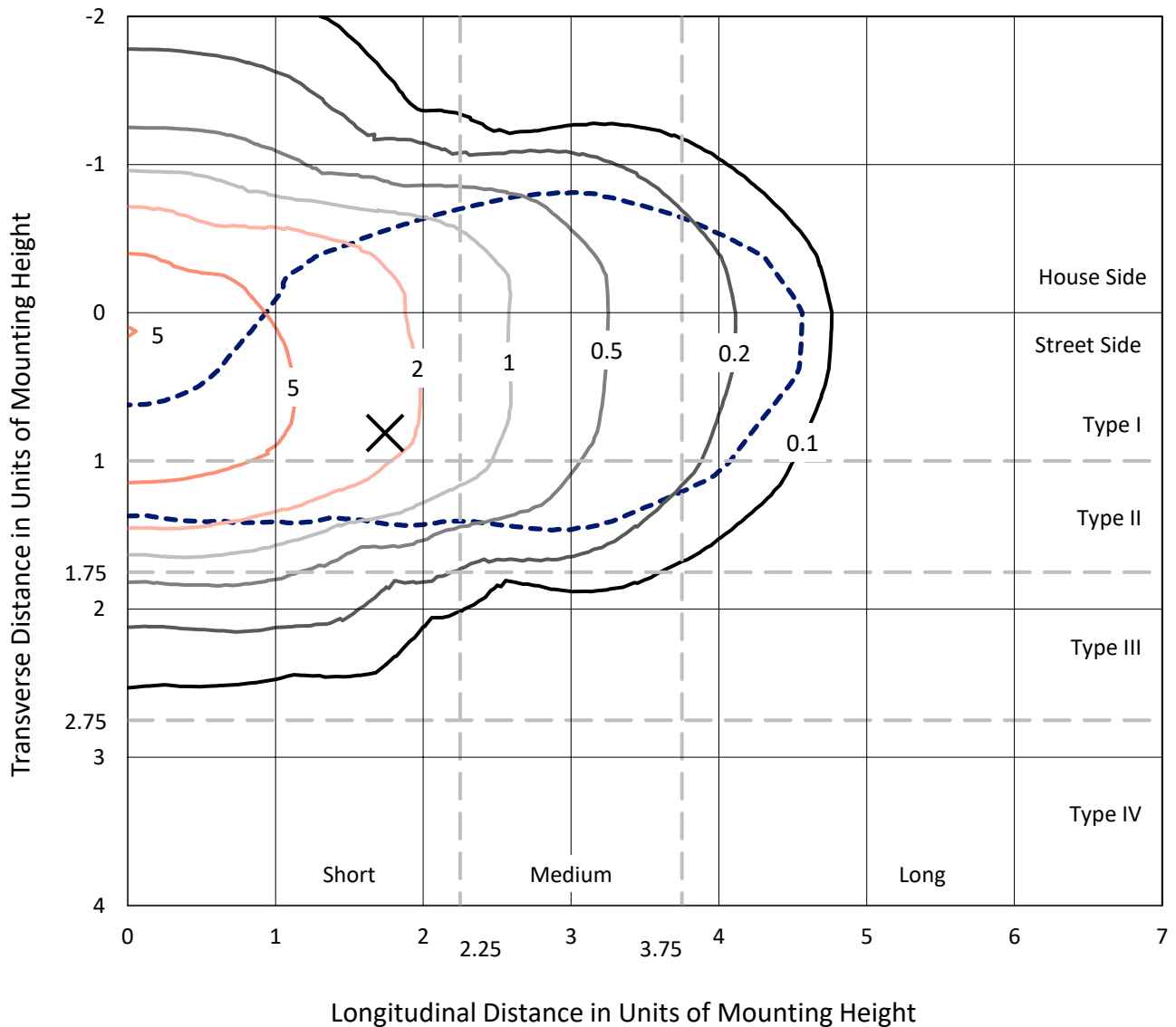
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

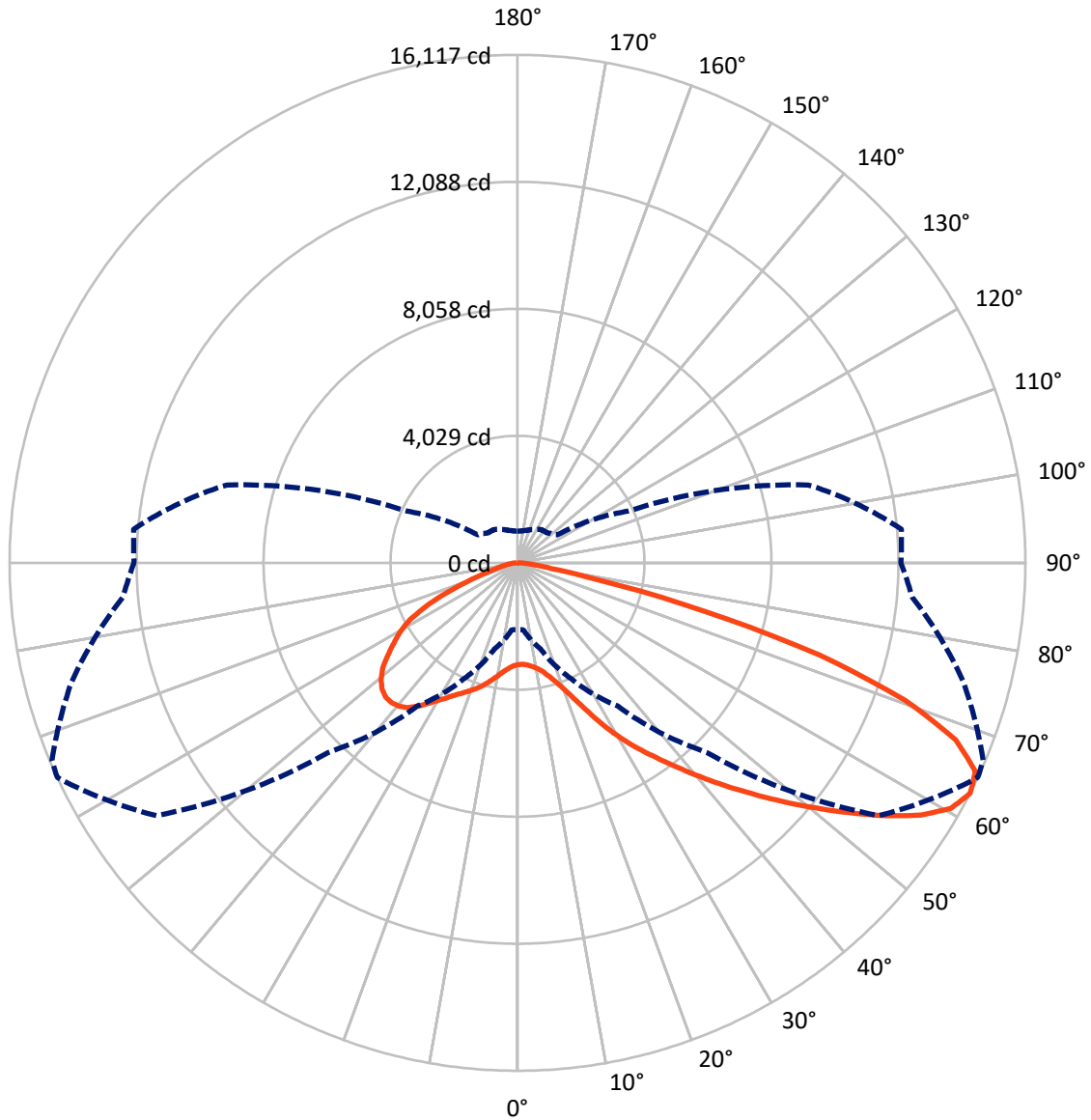
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9246.0	0.0	9246.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	20054.6	0.0	20054.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	29300.6	0.0	29300.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.9	1.1
10°-20°	1091.6	3.7
20°-30°	2213.4	7.6
30°-40°	3830.2	13.1
40°-50°	5796.3	19.8
50°-60°	6795.8	23.2
60°-70°	5697.4	19.4
70°-80°	3145.4	10.7
80°-90°	408.6	1.4
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°	29300.6	100.0
0°-180°	29300.6	100.0

Coefficient of Utilization

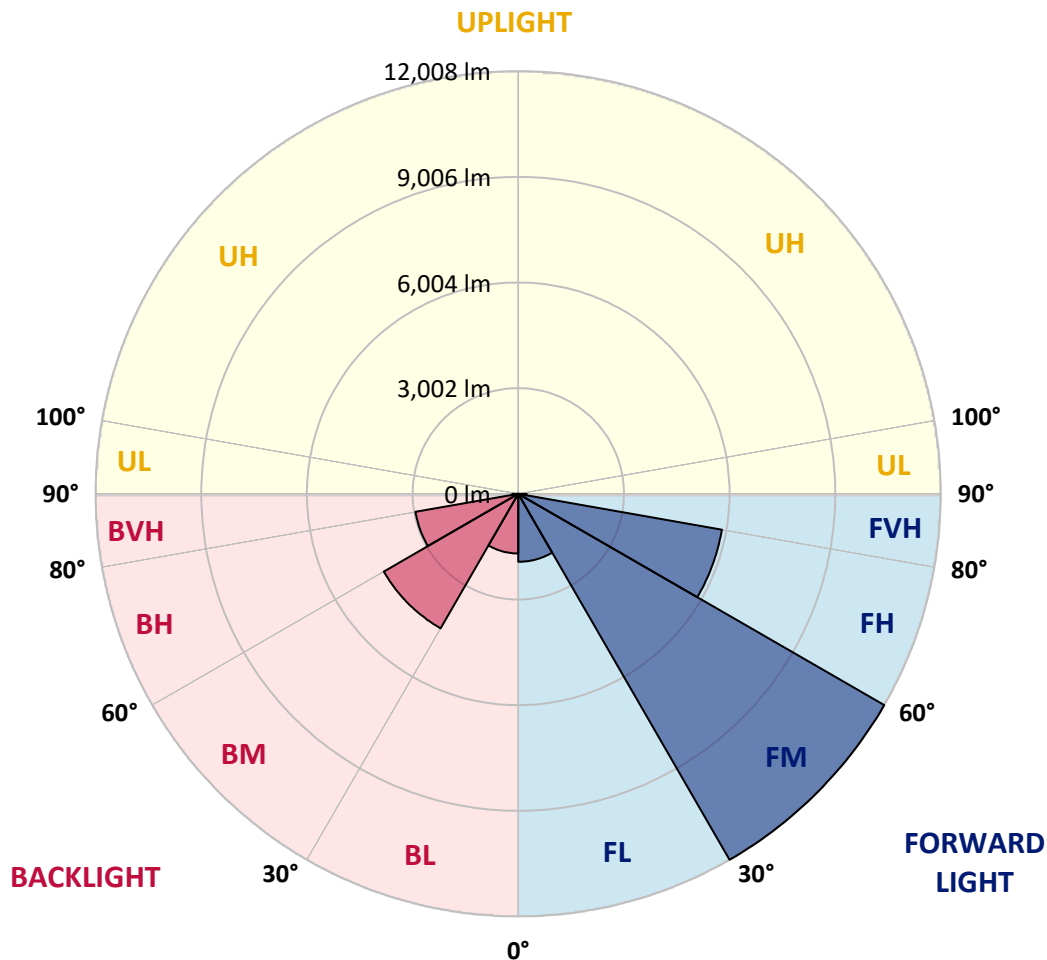


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1931.3	6.6			
FM (30°-60°)	12008.4	41.0			
FH (60°-80°)	5876.9	20.1			G3/7500
FVH (80°-90°)	238.1	0.8			G3/500
BL (0°-30°)	1695.6	5.8	B3/2500		
BM (30°-60°)	4413.9	15.1	B3/5000		
BH (60°-80°)	2966.0	10.1	B4/5000		G4/5000
BVH (80°-90°)	170.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3228.9	3228.9	3228.9	3228.9	3228.9	3228.9	3228.9	3228.9	3228.9	3228.9	3228.9
2.5°	3207.5	3198.4	3206.0	3206.0	3209.1	3207.5	3218.2	3221.2	3225.8	3234.9	3234.9
5°	3175.6	3174.1	3187.7	3199.9	3212.0	3222.7	3236.4	3256.1	3259.2	3269.9	3283.5
7.5°	3165.0	3155.9	3177.1	3192.4	3221.2	3247.1	3283.5	3317.0	3330.6	3335.2	3361.1
10°	3247.1	3231.8	3251.6	3260.7	3285.0	3310.9	3353.5	3406.7	3421.9	3440.1	3469.0
12.5°	3386.9	3370.2	3399.1	3412.7	3435.6	3458.4	3487.3	3538.9	3546.5	3579.9	3607.3
15°	3578.5	3558.7	3576.9	3593.6	3631.7	3652.9	3681.8	3732.0	3732.0	3757.9	3777.5
17.5°	3838.4	3812.6	3826.2	3832.3	3856.7	3888.5	3937.2	3981.3	4004.1	3994.9	3967.6
20°	4226.1	4194.1	4194.1	4163.7	4154.5	4180.5	4244.2	4305.1	4329.4	4282.2	4215.4
22.5°	4808.3	4762.7	4736.8	4633.4	4592.4	4595.4	4659.2	4733.8	4753.5	4669.9	4519.4
25°	5548.5	5477.1	5442.1	5290.1	5197.4	5116.8	5167.0	5262.8	5290.1	5186.8	4943.6
27.5°	6288.9	6293.4	6260.0	6077.5	5924.0	5776.6	5750.8	5851.1	5879.9	5762.9	5461.9
30°	7327.1	7219.2	7155.3	6936.5	6717.5	6510.8	6404.4	6445.4	6453.1	6313.2	5963.6
32.5°	8222.6	8195.2	8058.3	7866.8	7585.5	7261.8	7083.9	7018.6	7006.4	6807.2	6392.2
35°	9242.5	9227.4	9082.9	8854.9	8550.9	8100.9	7780.2	7593.2	7577.9	7298.2	6816.4
37.5°	10279.3	10279.3	10137.9	9888.6	9573.9	9011.5	8523.5	8227.1	8178.4	7813.6	7248.1
40°	11106.3	11056.1	11081.9	10977.0	10616.7	10019.4	9348.9	8918.7	8853.3	8415.6	7707.2
42.5°	11575.9	11559.2	11714.3	11831.4	11683.9	11206.5	10258.0	9668.2	9577.0	9078.3	8236.2
45°	11680.9	11662.7	11939.3	12368.0	12574.7	12378.6	11246.1	10457.2	10346.1	9771.5	8803.2
47.5°	11439.1	11402.7	11808.5	12485.0	13147.8	13492.9	12316.3	11313.0	11151.8	10446.5	9385.4
50°	10712.5	10677.5	11291.7	12190.1	13340.9	14250.0	13477.7	12220.5	11974.3	11170.0	9973.8
52.5°	9133.1	9149.8	10112.0	11346.4	13087.0	14721.2	14477.9	13176.7	12880.3	11910.4	10525.5
55°	7114.3	7150.8	8333.5	9692.5	12071.5	14649.7	15160.5	14161.7	13866.8	12606.6	11095.6
57.5°	5094.0	5255.2	6363.4	7708.7	10121.2	13517.2	15309.5	15098.1	14812.4	13366.7	11653.5
60°	3301.7	3330.6	4470.7	5826.7	7707.2	11504.5	15006.9	15808.1	15584.6	14142.0	12120.2
62.5°	2116.0	2135.8	2830.5	4075.5	5547.0	8511.3	13988.5	16116.7	16048.2	14654.3	12568.7
65°	1555.1	1540.0	1901.7	2693.7	3736.5	5249.1	12010.7	15967.7	16103.0	14975.0	12939.5
67.5°	1298.2	1276.9	1454.8	1865.2	2753.0	2981.0	8886.9	14999.3	15494.9	14938.6	13211.6
70°	1182.6	1164.4	1272.3	1384.9	2148.0	1996.0	4479.9	13039.8	13803.0	14523.5	13167.6
72.5°	1001.7	969.9	1117.4	1229.8	1670.6	1530.8	1851.6	10016.3	10946.6	13193.4	12547.3
75°	776.8	755.5	881.7	1082.4	1255.6	1194.8	1170.6	6082.1	7097.6	10203.3	10977.0
77.5°	615.6	586.8	702.3	843.7	1129.4	901.5	852.8	2619.2	3625.5	6513.9	8213.4
80°	463.6	437.8	533.6	667.4	868.0	679.5	551.9	1068.7	1366.6	3300.3	4130.2
82.5°	329.8	307.1	372.5	489.5	583.7	609.6	339.0	598.9	673.4	1272.3	922.7
85°	211.3	197.6	249.3	307.1	370.9	392.2	206.7	313.1	343.6	524.5	384.6
87.5°	115.5	94.3	133.8	142.9	171.8	156.6	98.8	114.0	123.1	190.0	162.7
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°	3228.9	3228.9	3228.9	3228.9	3228.9	3228.9	3228.9	3228.9	3228.9	3228.9	3228.9
2.5°	3240.9	3245.6	3260.7	3265.2	3275.9	3289.6	3298.8	3307.9	3307.9	3317.0	3317.0
5°	3285.0	3295.7	3327.7	3344.4	3371.7	3399.1	3415.8	3435.6	3447.7	3453.7	3456.8
7.5°	3370.2	3386.9	3432.5	3461.4	3508.5	3546.5	3572.3	3599.7	3605.8	3622.6	3616.4
10°	3485.7	3505.5	3557.2	3611.9	3668.2	3715.2	3739.6	3759.3	3767.0	3770.0	3762.4
12.5°	3617.9	3646.8	3713.8	3780.6	3839.9	3881.0	3887.0	3882.5	3861.2	3842.9	3842.9
15°	3780.6	3806.4	3881.0	3953.9	4011.6	4019.3	3981.3	3956.9	3931.1	3926.6	3926.6
17.5°	3975.2	3988.9	4057.3	4128.7	4133.3	4107.5	4051.2	4028.5	4004.1	3987.4	3988.9
20°	4201.7	4197.2	4245.8	4276.2	4244.2	4165.2	4080.1	4042.1	4017.8	3998.0	3999.6
22.5°	4472.3	4437.3	4431.3	4423.7	4338.5	4172.8	4057.3	4008.7	3970.6	3943.3	3952.4
25°	4866.0	4732.2	4639.5	4587.8	4396.3	4131.8	3984.3	3876.3	3804.9	3757.9	3776.1
27.5°	5358.5	5133.5	4899.5	4773.3	4396.3	4048.1	3808.0	3633.2	3516.2	3467.5	3491.8
30°	5828.3	5592.6	5247.6	4996.8	4385.7	3911.4	3523.7	3280.5	3143.7	3095.0	3123.9
32.5°	6229.5	5972.7	5617.0	5241.4	4359.8	3689.4	3171.0	2902.0	2769.8	2711.9	2740.8
35°	6602.0	6328.3	5987.8	5510.6	4291.4	3364.0	2783.4	2578.2	2430.7	2338.0	2368.4
37.5°	6983.6	6658.3	6339.0	5753.7	4168.3	2984.1	2485.4	2310.7	2137.3	2012.7	2046.1
40°	7398.6	7009.5	6714.5	5898.2	3966.0	2622.3	2254.4	2094.8	1910.8	1778.6	1804.4
42.5°	7883.5	7430.5	7132.6	5972.7	3689.4	2365.4	2103.9	1947.3	1774.0	1666.1	1687.4
45°	8389.7	7894.1	7514.1	5971.1	3380.9	2245.3	2055.2	1900.1	1708.7	1596.1	1614.4
47.5°	8920.3	8379.1	7844.0	5873.9	3113.2	2262.0	2027.9	1798.4	1587.0	1477.5	1492.8
50°	9452.3	8909.6	8163.2	5691.4	2999.3	2225.5	1926.1	1655.5	1406.1	1307.3	1313.4
52.5°	9979.8	9473.6	8438.4	5431.5	2883.7	2090.2	1795.3	1470.0	1331.7	1263.2	1263.2
55°	10510.3	10031.5	8737.8	5052.9	2594.9	1932.1	1576.3	1400.0	1272.3	1210.0	1204.0
57.5°	11042.4	10676.0	9022.2	4674.5	2231.6	1737.6	1456.3	1315.0	1213.1	1159.9	1150.8
60°	11595.7	11413.3	9315.5	4326.3	1872.8	1488.2	1368.2	1246.5	1143.2	1083.8	1079.3
62.5°	12165.8	12225.1	9545.0	3877.9	1542.9	1336.2	1289.0	1164.4	1064.2	1007.9	1006.3
65°	12740.4	13008.0	9695.6	3256.1	1251.1	1191.8	1204.0	1074.7	972.9	924.2	922.7
67.5°	13173.6	13571.9	9652.9	2464.2	1026.1	1055.0	1097.6	980.5	884.8	846.8	848.3
70°	13222.3	13505.0	9233.4	1687.4	858.8	921.2	979.0	887.8	788.9	761.6	763.1
72.5°	12574.7	12592.9	8064.4	1102.1	726.6	808.7	854.3	793.6	697.7	670.3	668.9
75°	10876.7	10414.6	5921.0	726.6	608.0	694.7	737.3	694.7	602.0	608.0	586.8
77.5°	8240.8	7375.8	3595.2	516.8	507.7	583.7	641.5	611.1	532.1	597.4	525.9
80°	4245.8	3990.4	1603.7	386.1	401.3	466.7	527.5	488.0	421.1	401.3	366.3
82.5°	972.9	1131.0	632.4	276.6	290.4	336.0	402.8	366.3	302.5	255.4	252.4
85°	340.5	372.5	279.7	173.3	170.3	209.8	273.7	244.8	205.2	164.2	173.3
87.5°	107.9	141.3	104.9	69.9	73.0	94.3	126.2	115.5	95.7	62.3	65.4
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)