

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: P968694

Luminaire Tested: **NAV-SB5C-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968694
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-SB5C-722-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32461.7 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

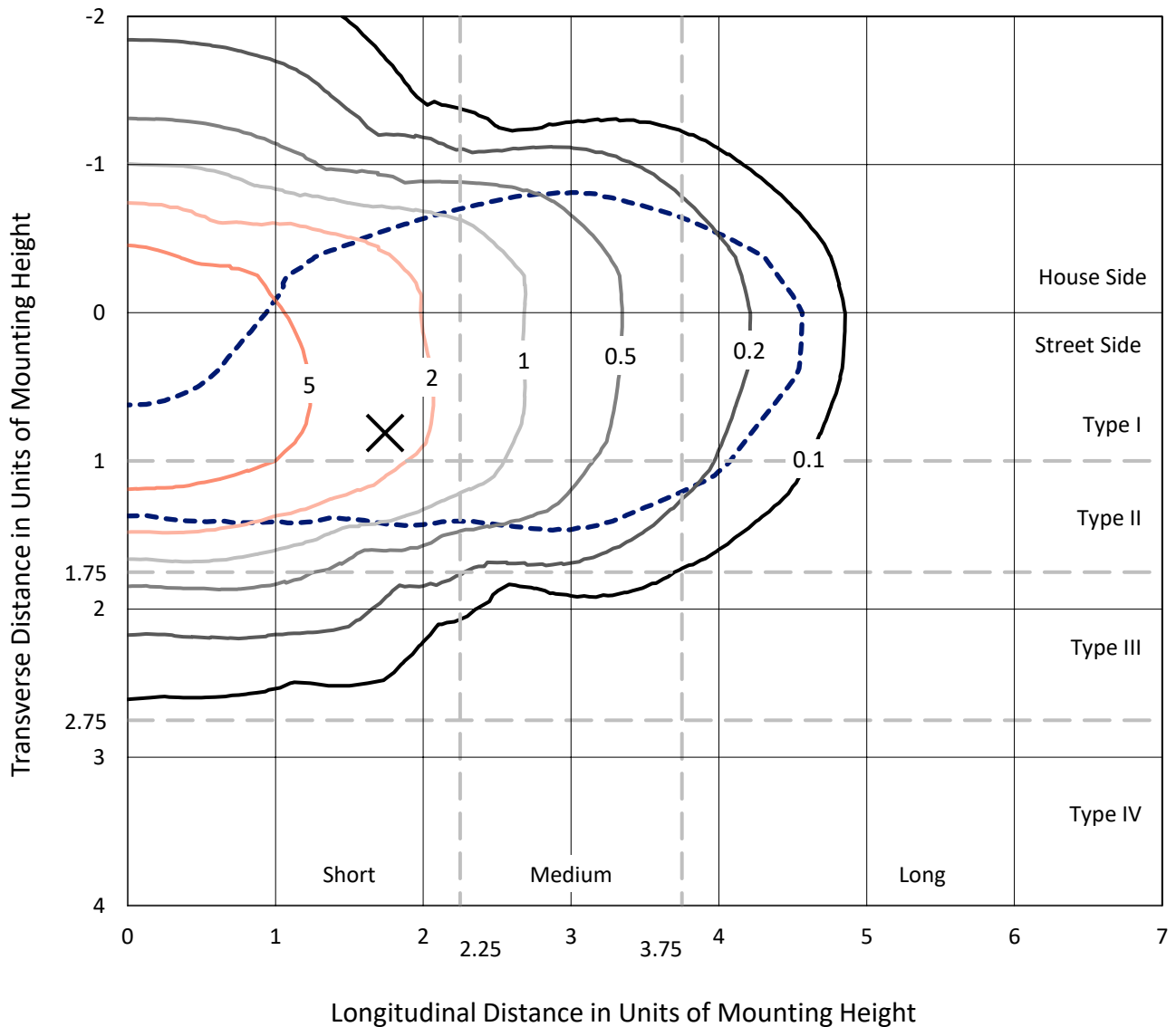
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

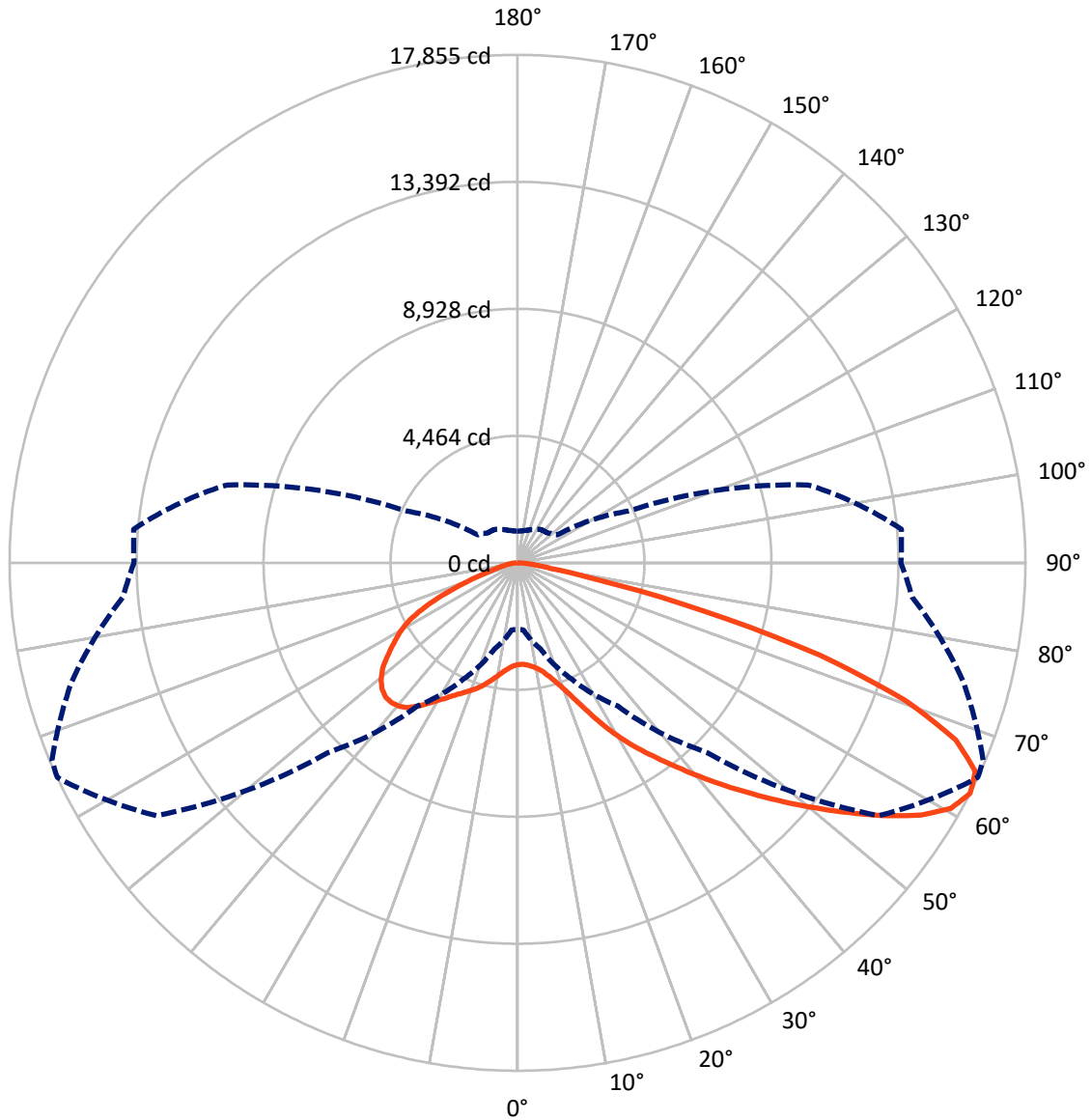
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	10243.5	0.0	10243.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	22218.2	0.0	22218.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	32461.7	0.0	32461.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.6	1.1
10°-20°	1209.4	3.7
20°-30°	2452.2	7.6
30°-40°	4243.4	13.1
40°-50°	6421.6	19.8
50°-60°	7528.9	23.2
60°-70°	6312.1	19.4
70°-80°	3484.8	10.7
80°-90°	452.7	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°	32461.7	100.0
0°-180°	32461.7	100.0

Coefficient of Utilization

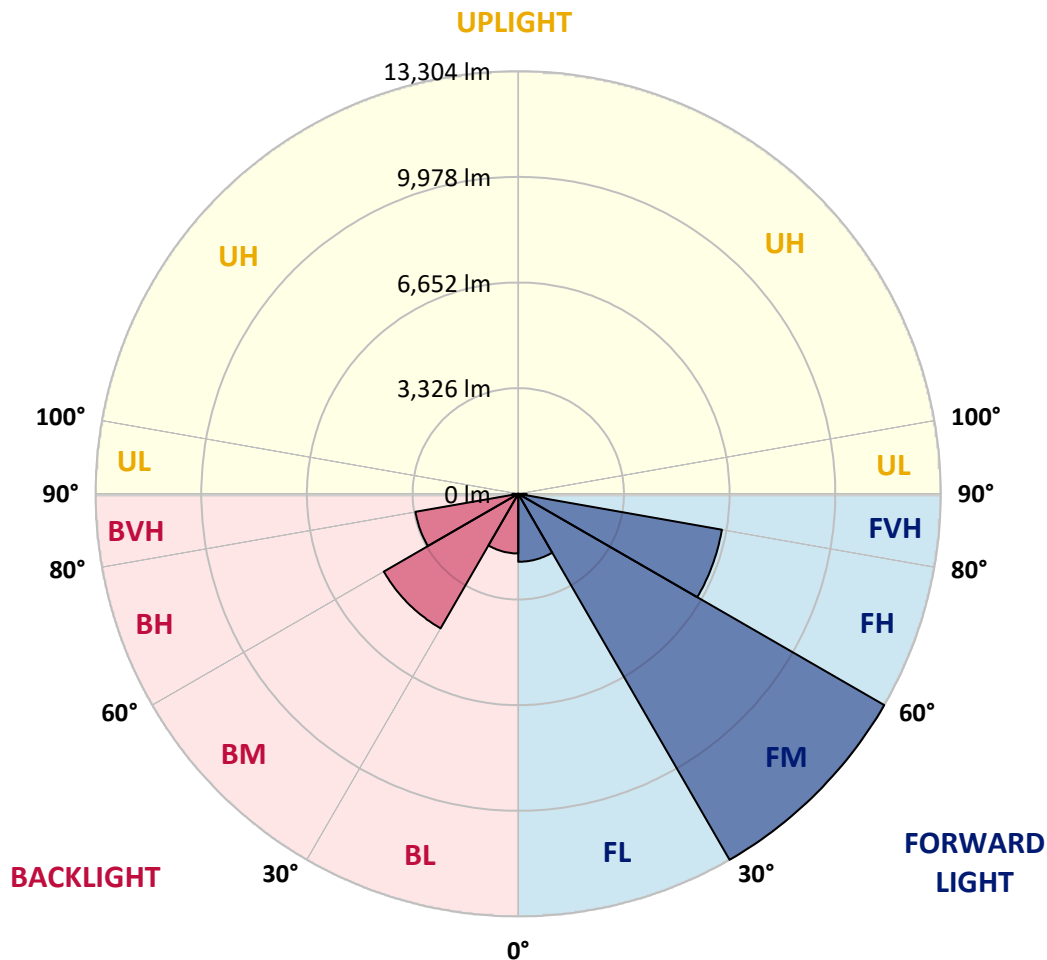


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2139.7	6.6			
FM (30°-60°)	13303.9	41.0			
FH (60°-80°)	6510.9	20.1			G3/7500
FVH (80°-90°)	263.8	0.8			G3/500
BL (0°-30°)	1878.5	5.8	B3/2500		
BM (30°-60°)	4890.1	15.1	B3/5000		
BH (60°-80°)	3286.0	10.1	B4/5000		G4/5000
BVH (80°-90°)	188.8	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°	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1
2.5°	3553.6	3543.4	3551.9	3551.9	3555.2	3553.6	3565.4	3568.7	3573.8	3583.9	3583.9
5°	3518.2	3516.5	3531.6	3545.2	3558.6	3570.4	3585.6	3607.5	3610.9	3622.7	3637.7
7.5°	3506.4	3496.3	3519.8	3536.8	3568.7	3597.3	3637.7	3674.8	3690.0	3695.0	3723.6
10°	3597.3	3580.5	3602.4	3612.5	3639.5	3668.1	3715.2	3774.2	3791.1	3811.3	3843.2
12.5°	3752.3	3733.8	3765.7	3780.9	3806.2	3831.4	3863.4	3920.7	3929.1	3966.1	3996.5
15°	3964.5	3942.6	3962.9	3981.3	4023.4	4047.0	4079.0	4134.6	4134.6	4163.2	4185.1
17.5°	4252.5	4223.8	4239.0	4245.8	4272.7	4308.1	4362.0	4410.8	4436.1	4426.0	4395.6
20°	4682.0	4646.6	4646.6	4612.9	4602.8	4631.5	4702.2	4769.5	4796.5	4744.2	4670.2
22.5°	5327.0	5276.5	5247.8	5133.3	5087.8	5091.2	5161.9	5244.4	5266.3	5173.7	5007.0
25°	6147.1	6068.0	6029.3	5860.8	5758.1	5668.9	5724.4	5830.5	5860.8	5746.4	5476.9
27.5°	6967.3	6972.4	6935.4	6733.2	6563.2	6399.8	6371.2	6482.3	6514.3	6384.6	6051.2
30°	8117.6	7998.1	7927.4	7684.8	7442.3	7213.2	7095.4	7140.8	7149.3	6994.3	6606.9
32.5°	9109.6	9079.2	8927.8	8715.5	8404.0	8045.2	7848.1	7775.8	7762.2	7541.6	7081.8
35°	10239.6	10222.8	10062.8	9810.2	9473.4	8974.9	8619.5	8412.4	8395.5	8085.6	7551.8
37.5°	11388.3	11388.3	11231.6	10955.4	10606.8	9983.7	9443.0	9114.6	9060.8	8656.5	8030.1
40°	12304.4	12248.9	12277.4	12161.3	11762.2	11100.2	10357.5	9880.9	9808.5	9323.5	8538.7
42.5°	12824.8	12806.3	12978.1	13107.8	12944.4	12415.6	11364.7	10711.2	10610.2	10057.8	9124.8
45°	12941.0	12920.8	13227.3	13702.3	13931.3	13714.1	12459.4	11585.3	11462.4	10825.7	9753.0
47.5°	12673.3	12632.8	13082.5	13832.0	14566.3	14948.6	13645.0	12533.5	12354.9	11573.5	10398.0
50°	11868.3	11829.5	12509.9	13505.2	14780.1	15787.3	14931.7	13538.9	13266.1	12375.1	11049.7
52.5°	10118.4	10136.9	11203.0	12570.5	14498.9	16309.4	16039.9	14598.3	14269.8	13195.3	11661.1
55°	7881.8	7922.2	9232.6	10738.2	13373.9	16230.2	16796.1	15689.6	15362.9	13966.6	12292.6
57.5°	5643.6	5822.1	7049.8	8540.3	11213.1	14975.5	16961.1	16727.0	16410.4	14808.8	12910.7
60°	3658.0	3690.0	4953.1	6455.3	8538.7	12745.7	16626.0	17513.6	17265.9	15667.7	13427.8
62.5°	2344.4	2366.2	3135.9	4515.2	6145.5	9429.6	15497.6	17855.4	17779.6	16235.3	13924.6
65°	1722.9	1706.0	2106.9	2984.3	4139.7	5815.3	13306.6	17690.4	17840.2	16590.6	14335.5
67.5°	1438.3	1414.7	1611.7	2066.5	3050.0	3302.7	9845.5	16617.5	17166.6	16550.2	14637.0
70°	1310.3	1290.1	1409.7	1534.2	2379.7	2211.3	4963.2	14446.7	15292.1	16090.4	14588.1
72.5°	1109.9	1074.5	1237.9	1362.4	1850.8	1696.0	2051.3	11096.9	12127.6	14616.8	13901.0
75°	860.6	837.0	976.8	1199.1	1391.1	1323.8	1296.8	6738.4	7863.3	11304.0	12161.3
77.5°	682.0	650.1	778.1	934.7	1251.3	998.7	944.8	2901.8	4016.7	7216.6	9099.4
80°	513.6	485.0	591.1	739.3	961.7	752.9	611.3	1184.0	1514.0	3656.3	4575.8
82.5°	365.4	340.2	412.7	542.3	646.7	675.4	375.6	663.6	746.1	1409.7	1022.2
85°	234.1	218.9	276.2	340.2	410.9	434.5	229.1	347.0	380.6	581.1	426.1
87.5°	128.0	104.4	148.2	158.3	190.3	173.4	109.5	126.3	136.4	210.5	180.2
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°	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1
2.5°	3590.6	3595.7	3612.5	3617.5	3629.3	3644.5	3654.6	3664.7	3664.7	3674.8	3674.8
5°	3639.5	3651.3	3686.6	3705.2	3735.4	3765.7	3784.3	3806.2	3819.7	3826.4	3829.8
7.5°	3733.8	3752.3	3802.9	3834.8	3887.0	3929.1	3957.7	3988.1	3994.8	4013.4	4006.6
10°	3861.8	3883.6	3940.9	4001.6	4063.8	4116.1	4143.0	4164.9	4173.3	4176.7	4168.3
12.5°	4008.3	4040.2	4114.3	4188.5	4254.2	4299.7	4306.3	4301.3	4277.7	4257.5	4257.5
15°	4188.5	4217.2	4299.7	4380.4	4444.5	4452.9	4410.8	4383.8	4355.2	4350.2	4350.2
17.5°	4404.0	4419.2	4495.0	4574.2	4579.2	4550.6	4488.3	4463.1	4436.1	4417.5	4419.2
20°	4655.0	4649.9	4703.8	4737.5	4702.2	4614.5	4520.2	4478.1	4451.3	4429.3	4431.0
22.5°	4954.7	4916.0	4909.3	4900.9	4806.5	4623.0	4495.0	4441.1	4399.0	4368.7	4378.8
25°	5391.0	5242.8	5140.1	5082.8	4870.6	4577.5	4414.2	4294.5	4215.4	4163.2	4183.4
27.5°	5936.6	5687.4	5428.0	5288.3	4870.6	4484.9	4218.8	4025.2	3895.4	3841.6	3868.5
30°	6457.1	6196.0	5813.7	5535.8	4858.8	4333.3	3903.9	3634.4	3482.8	3428.9	3460.9
32.5°	6901.6	6617.1	6223.0	5806.9	4830.1	4087.4	3513.2	3215.0	3068.5	3004.6	3036.6
35°	7314.3	7011.1	6633.9	6105.1	4754.4	3727.0	3083.7	2856.4	2693.0	2590.3	2623.9
37.5°	7737.0	7376.6	7022.9	6374.5	4617.9	3306.0	2753.6	2559.9	2368.0	2229.8	2266.9
40°	8196.8	7765.6	7438.9	6534.5	4394.0	2905.2	2497.6	2320.8	2116.9	1970.5	1999.1
42.5°	8734.0	8232.2	7902.0	6617.1	4087.4	2620.5	2330.8	2157.4	1965.4	1845.8	1869.4
45°	9294.8	8745.8	8324.7	6615.4	3745.6	2487.5	2276.9	2105.1	1893.0	1768.3	1788.5
47.5°	9882.6	9283.0	8690.3	6507.6	3449.1	2506.0	2246.7	1992.4	1758.3	1637.0	1653.8
50°	10472.1	9870.9	9043.9	6305.5	3322.8	2465.6	2133.8	1834.0	1557.8	1448.3	1455.1
52.5°	11056.5	10495.7	9348.7	6017.5	3194.8	2315.7	1989.0	1628.6	1475.3	1399.5	1399.5
55°	11644.2	11113.8	9680.5	5598.1	2874.8	2140.6	1746.5	1551.1	1409.7	1340.6	1333.8
57.5°	12233.7	11827.8	9995.5	5178.8	2472.3	1925.0	1613.5	1456.8	1344.0	1285.0	1274.9
60°	12846.7	12644.6	10320.5	4793.1	2074.9	1648.8	1515.8	1381.0	1266.5	1200.8	1195.8
62.5°	13478.2	13543.9	10574.8	4296.3	1709.4	1480.4	1428.1	1290.1	1179.0	1116.6	1114.9
65°	14114.9	14411.3	10741.5	3607.5	1386.1	1320.4	1333.8	1190.7	1077.9	1024.0	1022.2
67.5°	14594.9	15036.1	10694.3	2730.0	1136.8	1168.8	1216.0	1086.3	980.2	938.1	939.7
70°	14648.8	14962.0	10229.6	1869.4	951.5	1020.6	1084.6	983.6	874.1	843.8	845.4
72.5°	13931.3	13951.6	8934.4	1221.0	805.0	896.0	946.5	879.1	773.1	742.7	741.1
75°	12050.1	11538.1	6559.8	805.0	673.6	769.7	816.8	769.7	667.0	673.6	650.1
77.5°	9129.8	8171.5	3983.0	572.6	562.5	646.7	710.7	677.0	589.5	661.8	582.7
80°	4703.8	4420.9	1776.7	427.7	444.6	517.0	584.4	540.6	466.5	444.6	405.9
82.5°	1077.9	1253.0	700.6	306.5	321.6	372.2	446.3	405.9	335.2	282.9	279.6
85°	377.2	412.7	309.9	192.0	188.6	232.4	303.2	271.1	227.3	181.9	192.0
87.5°	119.6	156.6	116.2	77.5	80.9	104.4	139.8	128.0	106.1	69.1	72.5
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)