

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: P969779

Luminaire Tested: **NAV-SB6A-727-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969779  
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-SB6A-727-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26208.2 lumens  
Efficiency: N/A  
Efficacy: 153.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

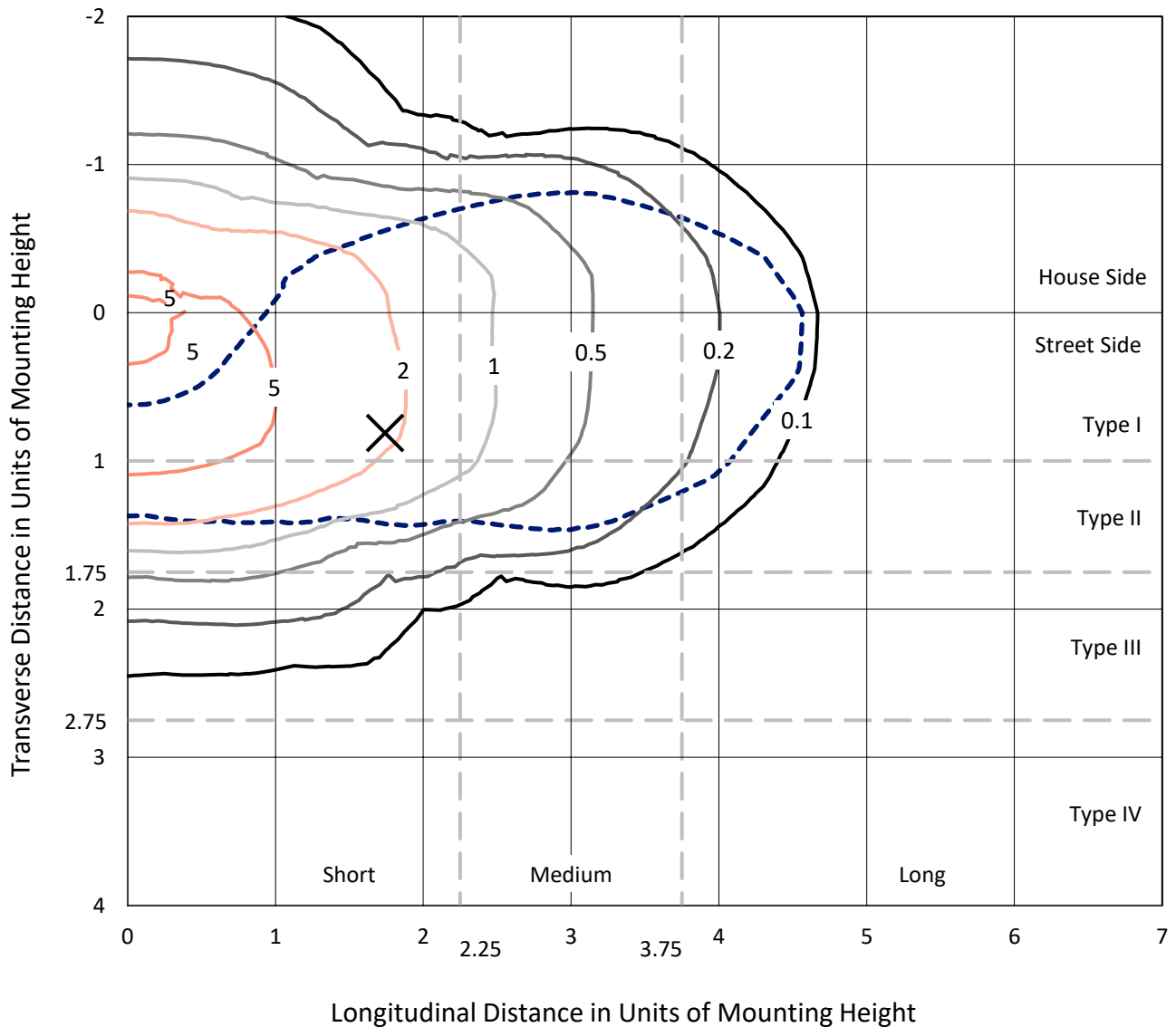
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

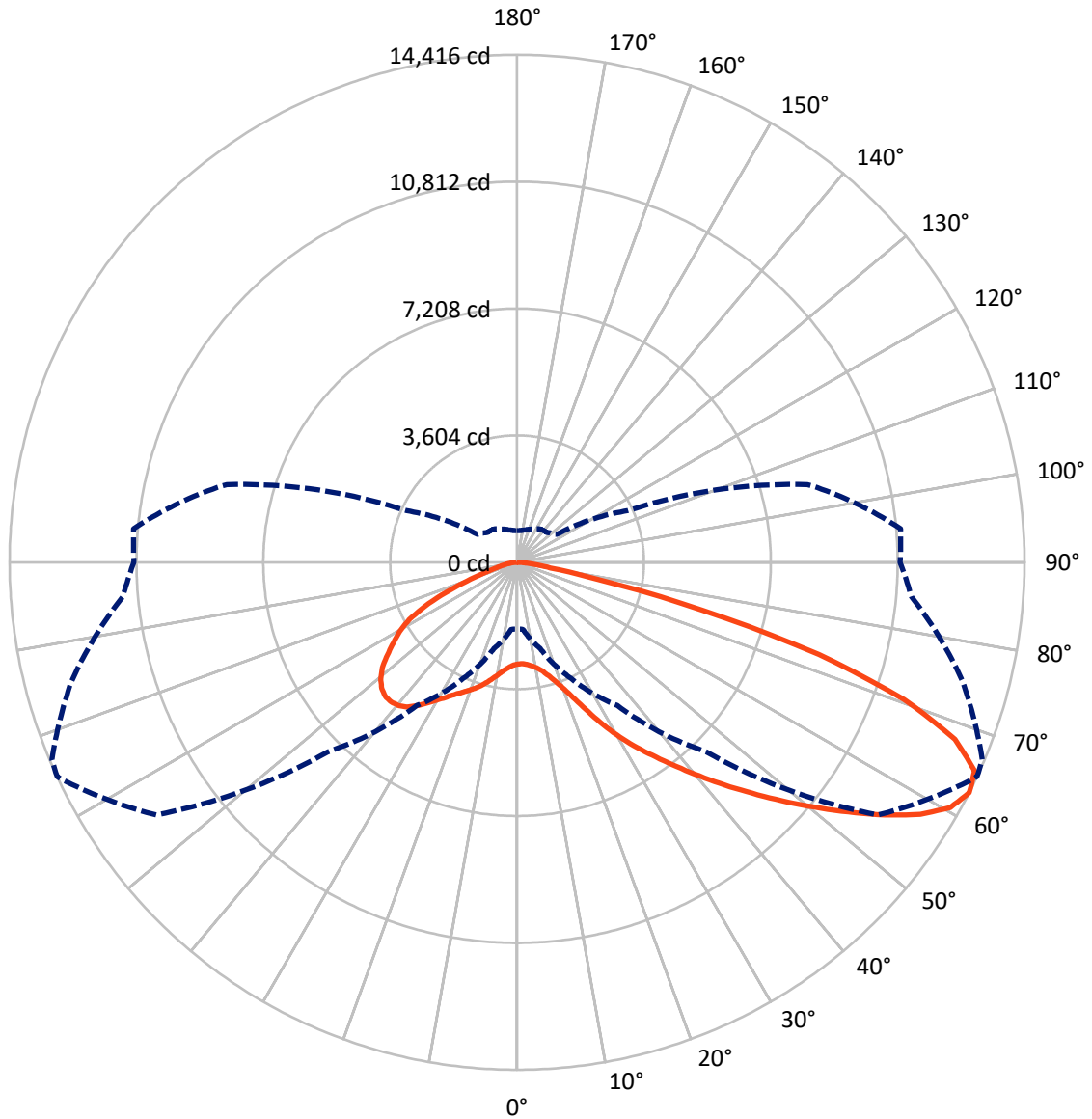
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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
<b>House Side</b>	Lumens	8270.2	0.0	8270.2
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	17938.0	0.0	17938.0
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	26208.2	0.0	26208.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.9	1.1
10°-20°	976.4	3.7
20°-30°	1979.8	7.6
30°-40°	3426.0	13.1
40°-50°	5184.5	19.8
50°-60°	6078.5	23.2
60°-70°	5096.1	19.4
70°-80°	2813.5	10.7
80°-90°	365.5	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°	26208.2	100.0
0°-180°	26208.2	100.0

**Coefficient of Utilization**

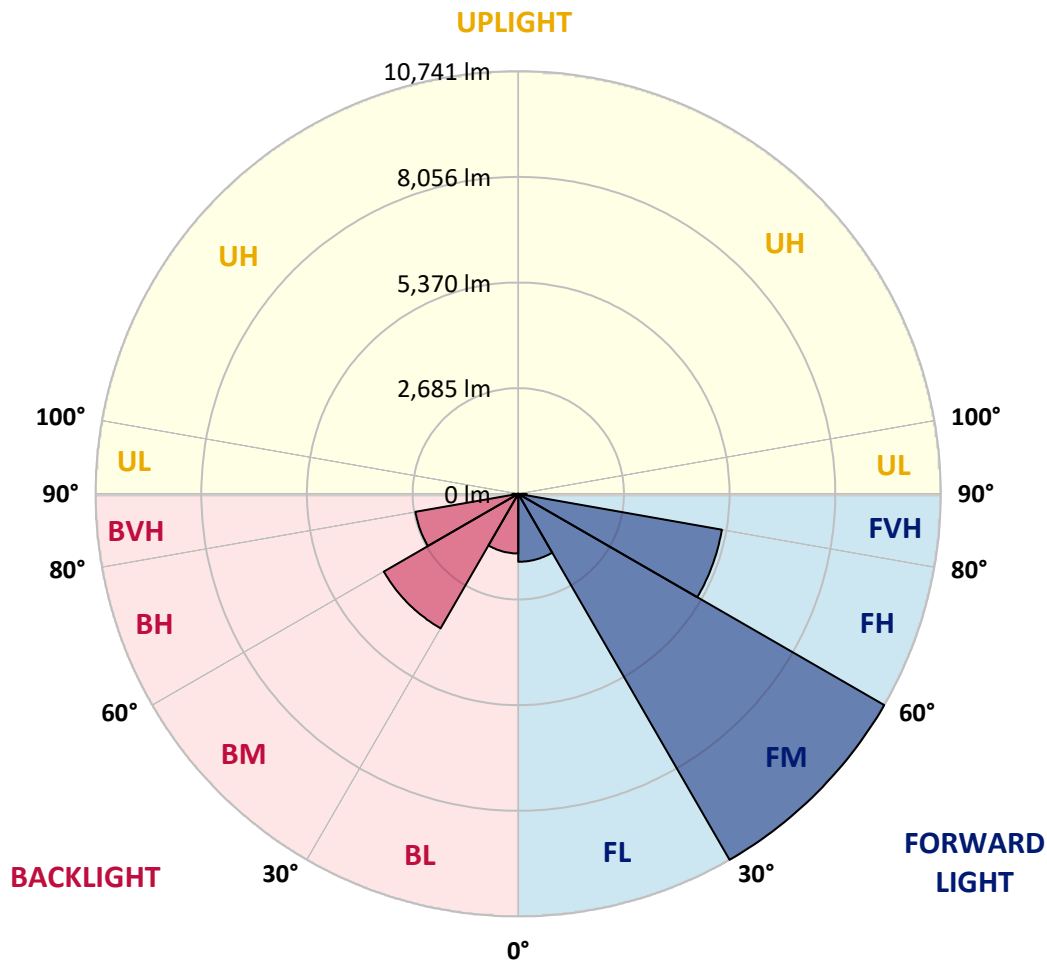


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1727.5	6.6			
FM (30°-60°)	10741.0	41.0			
FH (60°-80°)	5256.6	20.1			G3/7500
FVH (80°-90°)	213.0	0.8			G2/225
BL (0°-30°)	1516.7	5.8	B3/2500		
BM (30°-60°)	3948.1	15.1	B3/5000		
BH (60°-80°)	2653.0	10.1	B4/5000		G4/5000
BVH (80°-90°)	152.5	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°	2888.0	2888.0	2888.0	2888.0	2888.0	2888.0	2888.0	2888.0	2888.0	2888.0	2888.0
2.5°	2869.0	2860.9	2867.6	2867.6	2870.3	2869.0	2878.5	2881.3	2885.3	2893.5	2893.5
5°	2840.5	2839.0	2851.3	2862.2	2873.1	2882.6	2894.8	2912.5	2915.2	2924.7	2936.9
7.5°	2830.9	2822.7	2841.8	2855.4	2881.3	2904.3	2936.9	2966.9	2979.2	2983.3	3006.3
10°	2904.3	2890.7	2908.4	2916.6	2938.4	2961.4	2999.6	3047.1	3060.8	3077.0	3102.9
12.5°	3029.5	3014.5	3040.4	3052.6	3073.0	3093.3	3119.2	3165.4	3172.2	3202.1	3226.6
15°	3200.8	3183.1	3199.4	3214.4	3248.3	3267.4	3293.2	3338.1	3338.1	3361.2	3378.9
17.5°	3433.2	3410.2	3422.4	3427.8	3449.6	3478.1	3521.7	3561.1	3581.5	3573.4	3548.9
20°	3780.0	3751.5	3751.5	3724.2	3716.1	3739.2	3796.3	3850.7	3872.4	3830.3	3770.5
22.5°	4300.8	4260.0	4236.8	4144.4	4107.7	4110.5	4167.5	4234.2	4251.8	4177.1	4042.4
25°	4962.9	4899.1	4867.8	4731.8	4648.9	4576.8	4621.6	4707.3	4731.8	4639.4	4421.7
27.5°	5625.1	5629.2	5599.3	5436.1	5298.8	5166.9	5143.8	5233.5	5259.4	5154.7	4885.5
30°	6553.8	6457.3	6400.2	6204.3	6008.5	5823.6	5728.5	5765.2	5772.0	5646.9	5334.2
32.5°	7354.7	7330.2	7207.8	7036.5	6785.0	6495.3	6336.2	6277.8	6267.0	6088.8	5717.6
35°	8267.0	8253.5	8124.3	7920.4	7648.3	7245.9	6959.0	6791.8	6778.2	6528.0	6097.0
37.5°	9194.4	9194.4	9068.0	8844.9	8563.5	8060.4	7623.9	7358.8	7315.2	6989.0	6483.1
40°	9934.1	9889.2	9912.4	9818.5	9496.2	8961.9	8362.3	7977.5	7918.9	7527.4	6893.7
42.5°	10354.2	10339.3	10478.0	10582.6	10450.8	10023.8	9175.4	8647.8	8566.2	8120.3	7366.9
45°	10448.0	10431.7	10679.2	11062.6	11247.5	11072.2	10059.1	9353.4	9254.2	8740.3	7874.2
47.5°	10231.9	10199.3	10562.2	11167.4	11760.1	12068.9	11016.4	10119.0	9974.9	9344.0	8394.9
50°	9581.9	9550.6	10099.9	10903.5	11932.8	12746.0	12055.2	10930.7	10710.4	9991.2	8921.1
52.5°	8169.1	8184.1	9044.8	10148.9	11705.8	13167.5	12950.0	11786.0	11520.9	10653.3	9414.6
55°	6363.5	6396.1	7453.9	8669.6	10797.5	13103.6	13560.4	12667.1	12403.3	11276.1	9924.6
57.5°	4556.4	4700.5	5691.7	6895.1	9053.0	12090.6	13693.7	13504.7	13249.0	11956.0	10423.5
60°	2953.3	2979.2	3998.9	5211.8	6893.7	10290.3	13423.1	14139.7	13939.8	12649.4	10841.0
62.5°	1892.8	1910.4	2531.8	3645.4	4961.6	7613.1	12512.1	14415.7	14354.5	13107.6	11242.1
65°	1391.0	1377.4	1701.0	2409.4	3342.2	4695.1	10743.1	14282.5	14403.4	13394.5	11573.9
67.5°	1161.2	1142.2	1301.2	1668.4	2462.5	2666.4	7948.9	13416.3	13859.5	13361.9	11817.2
70°	1057.9	1041.5	1138.1	1238.7	1921.3	1785.3	4007.0	11663.6	12346.2	12990.7	11777.9
72.5°	896.1	867.5	999.4	1100.0	1494.3	1369.2	1656.1	8959.1	9791.3	11800.9	11223.0
75°	694.8	675.8	788.6	968.1	1123.1	1068.8	1046.9	5440.2	6348.5	9126.4	9818.5
77.5°	550.7	524.8	628.2	754.6	1010.2	806.3	762.8	2342.7	3242.9	5826.4	7346.6
80°	414.7	391.5	477.2	597.0	776.4	607.8	493.5	955.9	1222.4	2951.9	3694.3
82.5°	295.1	274.7	333.1	437.8	522.1	545.2	303.2	535.8	602.4	1138.1	825.3
85°	189.0	176.8	223.0	274.7	331.8	350.8	184.9	280.1	307.3	469.1	344.0
87.5°	103.3	84.3	119.6	127.8	153.6	140.0	88.4	102.0	110.2	169.9	145.4
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°	2888.0	2888.0	2888.0	2888.0	2888.0	2888.0	2888.0	2888.0	2888.0	2888.0	2888.0
2.5°	2898.9	2903.0	2916.6	2920.6	2930.2	2942.5	2950.6	2958.8	2958.8	2966.9	2966.9
5°	2938.4	2947.9	2976.4	2991.4	3015.9	3040.4	3055.3	3073.0	3083.8	3089.2	3092.0
7.5°	3014.5	3029.5	3070.3	3096.1	3138.2	3172.2	3195.3	3219.8	3225.3	3240.2	3234.8
10°	3117.8	3135.5	3181.7	3230.7	3281.0	3323.2	3344.9	3362.6	3369.4	3372.0	3365.3
12.5°	3236.1	3262.0	3321.8	3381.6	3434.7	3471.4	3476.8	3472.7	3453.6	3437.3	3437.3
15°	3381.6	3404.7	3471.4	3536.7	3588.3	3595.1	3561.1	3539.3	3516.3	3512.2	3512.2
17.5°	3555.6	3567.9	3629.1	3693.0	3697.1	3673.9	3623.7	3603.3	3581.5	3566.5	3567.9
20°	3758.3	3754.2	3797.7	3824.9	3796.3	3725.6	3649.5	3615.5	3593.8	3576.0	3577.5
22.5°	4000.3	3969.0	3963.6	3956.8	3880.6	3732.4	3629.1	3585.6	3551.5	3527.1	3535.2
25°	4352.5	4232.8	4149.8	4103.6	3932.3	3695.7	3563.8	3467.3	3403.4	3361.2	3377.6
27.5°	4793.0	4591.8	4382.4	4269.5	3932.3	3620.9	3406.1	3249.8	3145.0	3101.5	3123.3
30°	5213.2	5002.4	4693.8	4469.4	3922.8	3498.5	3151.8	2934.3	2811.9	2768.4	2794.3
32.5°	5572.1	5342.3	5024.1	4688.2	3899.6	3300.0	2836.4	2595.7	2477.4	2425.8	2451.6
35°	5905.2	5660.5	5355.9	4928.9	3838.5	3009.1	2489.6	2306.0	2174.2	2091.2	2118.5
37.5°	6246.6	5955.6	5670.0	5146.5	3728.3	2669.1	2223.1	2066.8	1911.7	1800.3	1830.1
40°	6617.7	6269.6	6005.9	5275.7	3547.5	2345.5	2016.5	1873.7	1709.2	1590.9	1614.0
42.5°	7051.5	6646.3	6379.8	5342.3	3300.0	2115.7	1881.8	1741.8	1586.8	1490.2	1509.3
45°	7504.2	7061.0	6721.0	5341.0	3024.0	2008.3	1838.3	1699.7	1528.3	1427.7	1444.0
47.5°	7978.8	7494.7	7016.1	5253.9	2784.7	2023.2	1813.8	1608.5	1419.5	1321.6	1335.3
50°	8454.7	7969.3	7301.7	5090.8	2682.7	1990.7	1722.7	1480.7	1257.8	1169.3	1174.8
52.5°	8926.5	8473.8	7547.8	4858.3	2579.4	1869.6	1605.9	1314.9	1191.2	1130.0	1130.0
55°	9401.1	8972.7	7815.6	4519.7	2321.0	1728.2	1410.0	1252.3	1138.1	1082.3	1076.9
57.5°	9877.0	9549.3	8069.9	4181.1	1996.1	1554.1	1302.6	1176.2	1085.1	1037.5	1029.3
60°	10371.9	10208.7	8332.3	3869.8	1675.2	1331.2	1223.7	1115.0	1022.5	969.4	965.4
62.5°	10881.8	10934.8	8537.6	3468.6	1380.1	1195.1	1153.0	1041.5	951.8	901.5	900.2
65°	11395.7	11635.1	8672.2	2912.5	1119.1	1066.0	1076.9	961.3	870.2	826.7	825.3
67.5°	11783.3	12139.5	8634.2	2204.1	917.8	943.6	981.7	877.0	791.4	757.4	758.7
70°	11826.8	12079.7	8258.9	1509.3	768.2	824.0	875.7	794.1	705.7	681.2	682.5
72.5°	11247.5	11263.8	7213.2	985.7	650.0	723.3	764.1	709.8	624.1	599.6	598.3
75°	9728.8	9315.4	5296.1	650.0	543.9	621.4	659.5	621.4	538.4	543.9	524.8
77.5°	7371.0	6597.3	3215.7	462.3	454.2	522.1	573.8	546.6	475.9	534.3	470.5
80°	3797.7	3569.3	1434.5	345.3	359.0	417.5	471.8	436.4	376.7	359.0	327.7
82.5°	870.2	1011.7	565.6	247.4	259.7	300.5	360.3	327.7	270.6	228.5	225.7
85°	304.5	333.1	250.2	155.0	152.3	187.7	244.8	218.9	183.6	146.9	155.0
87.5°	96.6	126.5	93.8	62.5	65.3	84.3	112.9	103.3	85.7	55.8	58.4
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)