

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: P965005

Luminaire Tested: **NAV-SB3D-722-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965005  
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-SB3D-722-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26199 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

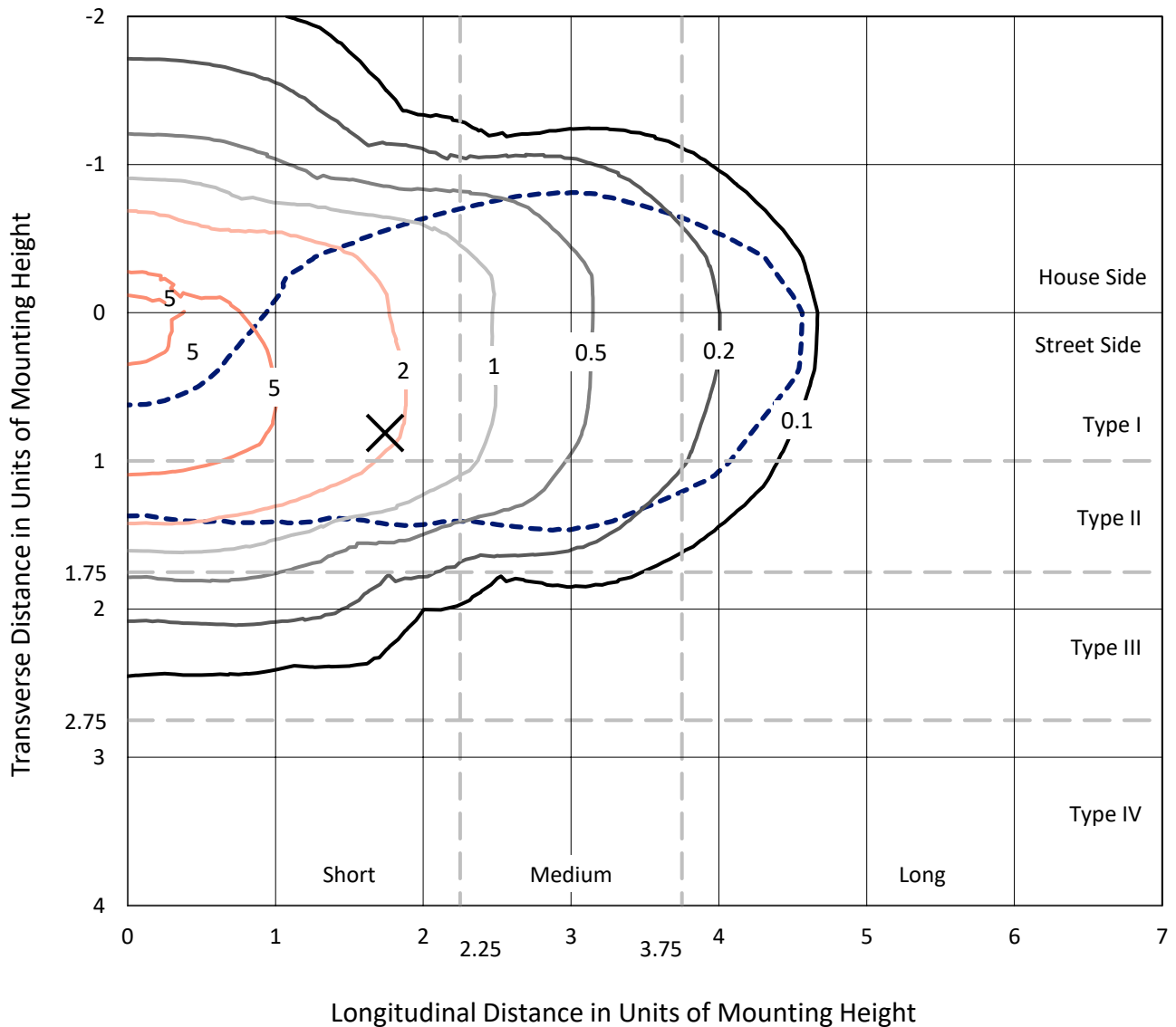
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

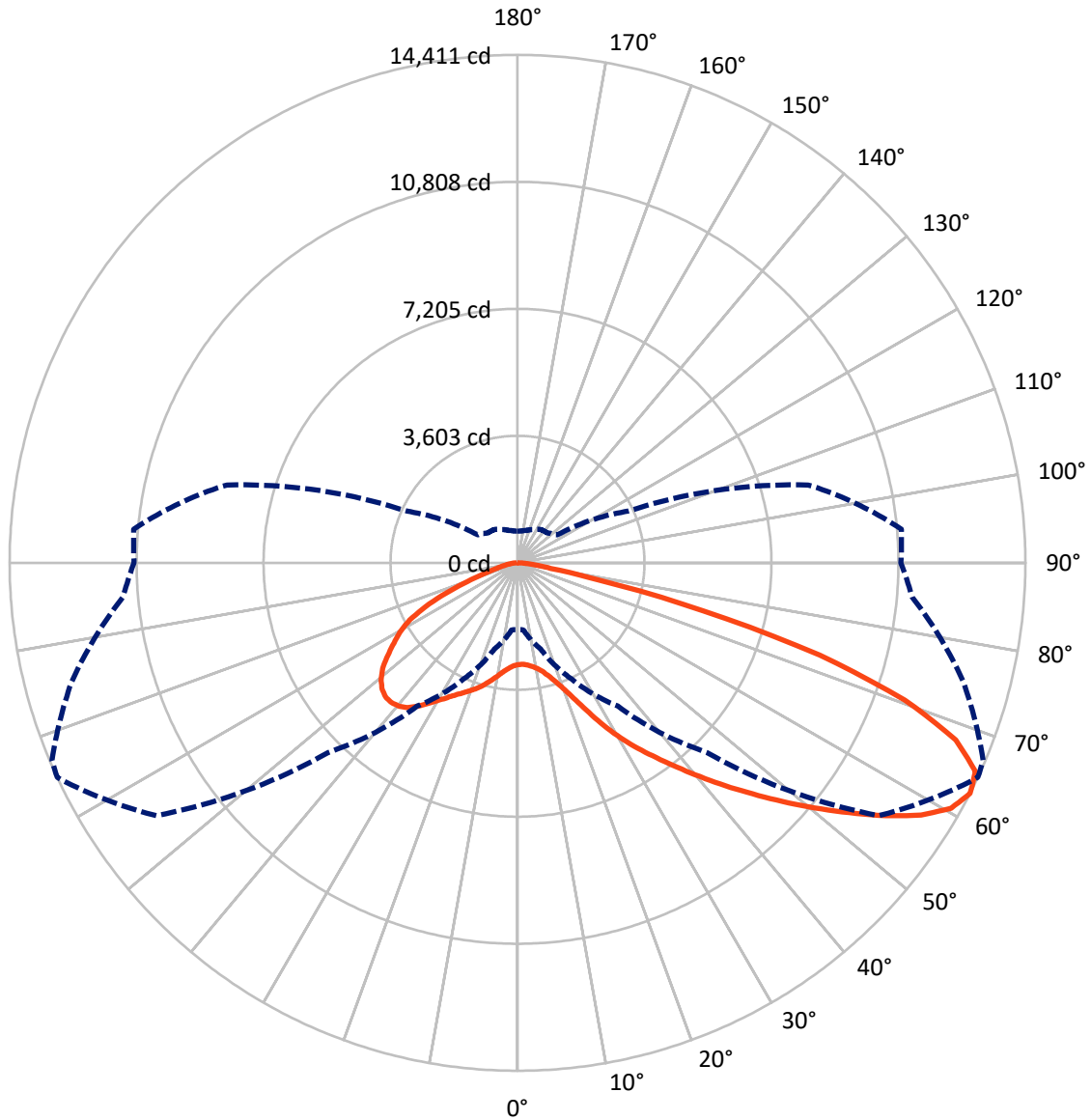
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	8267.3	0.0	8267.3
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	17931.7	0.0	17931.7
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	26199.0	0.0	26199.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.8	1.1
10°-20°	976.1	3.7
20°-30°	1979.1	7.6
30°-40°	3424.8	13.1
40°-50°	5182.7	19.8
50°-60°	6076.4	23.2
60°-70°	5094.3	19.4
70°-80°	2812.5	10.7
80°-90°	365.3	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°	26199.0	100.0
0°-180°	26199.0	100.0

**Coefficient of Utilization**

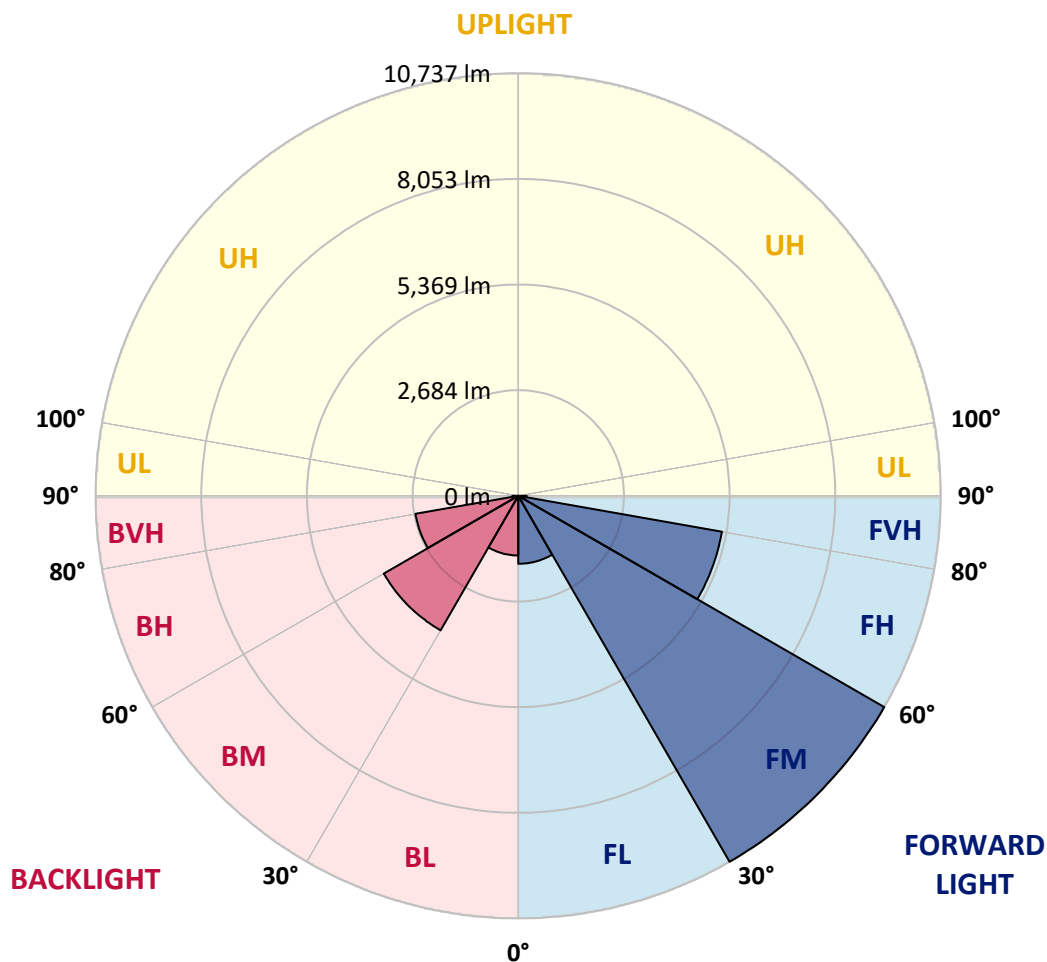


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1726.9	6.6			
FM (30°-60°)	10737.2	41.0			
FH (60°-80°)	5254.7	20.1			G3/7500
FVH (80°-90°)	212.9	0.8			G2/225
BL (0°-30°)	1516.1	5.8	B3/2500		
BM (30°-60°)	3946.7	15.1	B3/5000		
BH (60°-80°)	2652.1	10.1	B4/5000		G4/5000
BVH (80°-90°)	152.4	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°	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0
2.5°	2868.0	2859.9	2866.6	2866.6	2869.4	2868.0	2877.5	2880.2	2884.2	2892.4	2892.4
5°	2839.5	2838.1	2850.3	2861.2	2872.0	2881.6	2893.8	2911.5	2914.2	2923.7	2935.9
7.5°	2829.9	2821.7	2840.8	2854.4	2880.2	2903.3	2935.9	2965.8	2978.0	2982.1	3005.3
10°	2903.3	2889.8	2907.4	2915.5	2937.3	2960.4	2998.4	3046.1	3059.6	3075.9	3101.8
12.5°	3028.4	3013.4	3039.2	3051.5	3071.8	3092.2	3118.0	3164.3	3171.1	3201.0	3225.5
15°	3199.6	3182.0	3198.3	3213.3	3247.2	3266.3	3292.1	3336.9	3336.9	3360.1	3377.7
17.5°	3432.1	3408.9	3421.2	3426.7	3448.4	3476.9	3520.5	3559.8	3580.2	3572.0	3547.6
20°	3778.7	3750.2	3750.2	3722.9	3714.8	3737.9	3795.0	3849.4	3871.1	3829.0	3769.1
22.5°	4299.3	4258.5	4235.4	4142.9	4106.3	4109.0	4166.0	4232.6	4250.4	4175.5	4041.0
25°	4961.2	4897.3	4866.1	4730.2	4647.2	4575.2	4620.1	4705.7	4730.2	4637.7	4420.2
27.5°	5623.2	5627.2	5597.3	5434.2	5296.9	5165.1	5142.0	5231.7	5257.5	5152.9	4883.7
30°	6551.5	6455.0	6397.9	6202.2	6006.5	5821.6	5726.5	5763.2	5769.9	5644.9	5332.3
32.5°	7352.1	7327.6	7205.3	7034.1	6782.6	6493.1	6334.0	6275.6	6264.7	6086.7	5715.6
35°	8264.2	8250.5	8121.4	7917.5	7645.7	7243.4	6956.6	6789.4	6775.8	6525.7	6094.9
37.5°	9191.2	9191.2	9064.8	8841.9	8560.5	8057.5	7621.2	7356.2	7312.7	6986.5	6480.9
40°	9930.6	9885.7	9908.8	9815.0	9492.9	8958.7	8359.3	7974.6	7916.2	7524.7	6891.3
42.5°	10350.6	10335.6	10474.3	10578.9	10447.1	10020.3	9172.1	8644.7	8563.2	8117.4	7364.3
45°	10444.3	10428.0	10675.5	11058.7	11243.6	11068.3	10055.7	9350.2	9250.9	8737.2	7871.3
47.5°	10228.3	10195.7	10558.5	11163.4	11756.0	12064.6	11012.5	10115.4	9971.3	9340.6	8391.9
50°	9578.5	9547.3	10096.4	10899.7	11928.6	12741.5	12051.0	10926.9	10706.7	9987.7	8917.9
52.5°	8166.3	8181.2	9041.6	10145.3	11701.7	13162.8	12945.3	11781.9	11516.8	10649.6	9411.3
55°	6361.3	6393.8	7451.3	8666.5	10793.7	13099.0	13555.6	12662.6	12398.9	11272.1	9921.1
57.5°	4554.8	4698.9	5689.8	6892.7	9049.8	12086.3	13688.9	13500.0	13244.4	11951.8	10419.9
60°	2952.3	2978.0	3997.5	5210.0	6891.3	10286.7	13418.4	14134.6	13934.9	12645.0	10837.2
62.5°	1892.0	1909.7	2530.9	3644.1	4959.9	7610.3	12507.7	14410.6	14349.5	13103.0	11238.2
65°	1390.5	1376.9	1700.4	2408.5	3341.0	4693.5	10739.3	14277.4	14398.4	13389.8	11569.8
67.5°	1160.8	1141.7	1300.8	1667.8	2461.5	2665.4	7946.1	13411.6	13854.7	13357.2	11813.1
70°	1057.5	1041.2	1137.6	1238.3	1920.6	1784.6	4005.7	11659.5	12341.8	12986.1	11773.7
72.5°	895.7	867.2	999.1	1099.6	1493.8	1368.8	1655.6	8956.0	9787.8	11796.8	11219.1
75°	694.5	675.6	788.3	967.8	1122.7	1068.4	1046.6	5438.3	6346.3	9123.2	9815.0
77.5°	550.5	524.7	628.0	754.4	1009.9	806.1	762.5	2341.9	3241.8	5824.4	7343.9
80°	414.6	391.4	477.1	596.8	776.1	607.6	493.4	955.5	1221.9	2950.9	3693.1
82.5°	295.0	274.6	333.0	437.7	521.9	545.1	303.1	535.6	602.2	1137.6	825.0
85°	188.9	176.7	222.9	274.6	331.7	350.7	184.8	280.0	307.2	468.9	343.9
87.5°	103.3	84.3	119.6	127.8	153.5	140.0	88.4	102.0	110.1	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°	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0
2.5°	2897.9	2902.0	2915.5	2919.6	2929.1	2941.3	2949.5	2957.7	2957.7	2965.8	2965.8
5°	2937.3	2946.8	2975.4	2990.3	3014.8	3039.2	3054.2	3071.8	3082.8	3088.2	3090.9
7.5°	3013.4	3028.4	3069.2	3095.0	3137.1	3171.1	3194.2	3218.7	3224.1	3239.1	3233.7
10°	3116.7	3134.3	3180.6	3229.6	3279.8	3321.9	3343.8	3361.4	3368.2	3370.9	3364.2
12.5°	3235.0	3260.8	3320.6	3380.4	3433.4	3470.1	3475.6	3471.5	3452.5	3436.1	3436.1
15°	3380.4	3403.5	3470.1	3535.3	3587.0	3593.9	3559.8	3538.1	3515.0	3510.9	3510.9
17.5°	3554.4	3566.6	3627.8	3691.6	3695.7	3672.7	3622.4	3602.0	3580.2	3565.3	3566.6
20°	3756.9	3752.8	3796.4	3823.6	3795.0	3724.3	3648.2	3614.3	3592.4	3574.8	3576.1
22.5°	3998.8	3967.6	3962.1	3955.4	3879.2	3731.1	3627.8	3584.3	3550.3	3525.9	3534.0
25°	4350.9	4231.3	4148.4	4102.2	3930.9	3694.4	3562.6	3466.0	3402.2	3360.1	3376.4
27.5°	4791.3	4590.2	4380.8	4268.0	3930.9	3619.7	3404.8	3248.5	3143.9	3100.4	3122.1
30°	5211.3	5000.7	4692.0	4467.8	3921.4	3497.3	3150.7	2933.2	2810.9	2767.4	2793.2
32.5°	5570.2	5340.5	5022.4	4686.6	3898.3	3298.9	2835.4	2594.8	2476.5	2424.8	2450.7
35°	5903.2	5658.5	5354.0	4927.3	3837.1	3008.0	2488.8	2305.2	2173.4	2090.5	2117.6
37.5°	6244.3	5953.4	5668.0	5144.7	3727.0	2668.2	2222.3	2066.0	1911.1	1799.6	1829.5
40°	6615.4	6267.5	6003.7	5273.8	3546.3	2344.7	2015.8	1873.0	1708.6	1590.3	1613.5
42.5°	7049.0	6643.9	6377.5	5340.5	3298.9	2115.0	1881.2	1741.2	1586.2	1489.7	1508.8
45°	7501.7	7058.6	6718.7	5339.1	3022.9	2007.6	1837.7	1699.0	1527.8	1427.2	1443.5
47.5°	7976.0	7492.1	7013.7	5252.1	2783.7	2022.5	1813.2	1608.0	1419.0	1321.2	1334.8
50°	8451.7	7966.5	7299.1	5089.0	2681.8	1989.9	1722.1	1480.2	1257.3	1168.9	1174.3
52.5°	8923.3	8470.8	7545.1	4856.6	2578.5	1869.0	1605.3	1314.4	1190.6	1129.6	1129.6
55°	9397.7	8969.6	7812.9	4518.1	2320.2	1727.6	1409.5	1251.8	1137.6	1082.0	1076.6
57.5°	9873.5	9545.9	8067.1	4179.6	1995.4	1553.6	1302.2	1175.8	1084.7	1037.1	1028.9
60°	10368.3	10205.1	8329.4	3868.3	1674.5	1330.7	1223.3	1114.6	1022.1	969.1	965.0
62.5°	10877.9	10931.0	8534.7	3467.4	1379.6	1194.7	1152.6	1041.2	951.5	901.2	899.8
65°	11391.7	11631.0	8669.2	2911.5	1118.7	1065.6	1076.6	960.9	869.9	826.5	825.0
67.5°	11779.1	12135.3	8631.1	2203.3	917.5	943.3	981.3	876.7	791.1	757.1	758.5
70°	11822.7	12075.4	8256.0	1508.8	767.9	823.7	875.4	793.8	705.4	681.0	682.3
72.5°	11243.6	11259.9	7210.8	985.4	649.7	723.1	763.9	709.5	623.9	599.4	598.1
75°	9725.3	9312.1	5294.2	649.7	543.7	621.2	659.3	621.2	538.2	543.7	524.7
77.5°	7368.4	6595.1	3214.6	462.2	454.0	521.9	573.6	546.4	475.7	534.2	470.3
80°	3796.4	3568.0	1434.0	345.2	358.9	417.3	471.7	436.3	376.5	358.9	327.6
82.5°	869.9	1011.3	565.5	247.3	259.6	300.4	360.2	327.6	270.5	228.4	225.6
85°	304.4	333.0	250.1	155.0	152.2	187.6	244.7	218.8	183.5	146.8	155.0
87.5°	96.6	126.4	93.8	62.5	65.3	84.3	112.9	103.3	85.6	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)