

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: P965010

Luminaire Tested: **NAV-SB3D-722-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965010  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3D-722-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25870 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

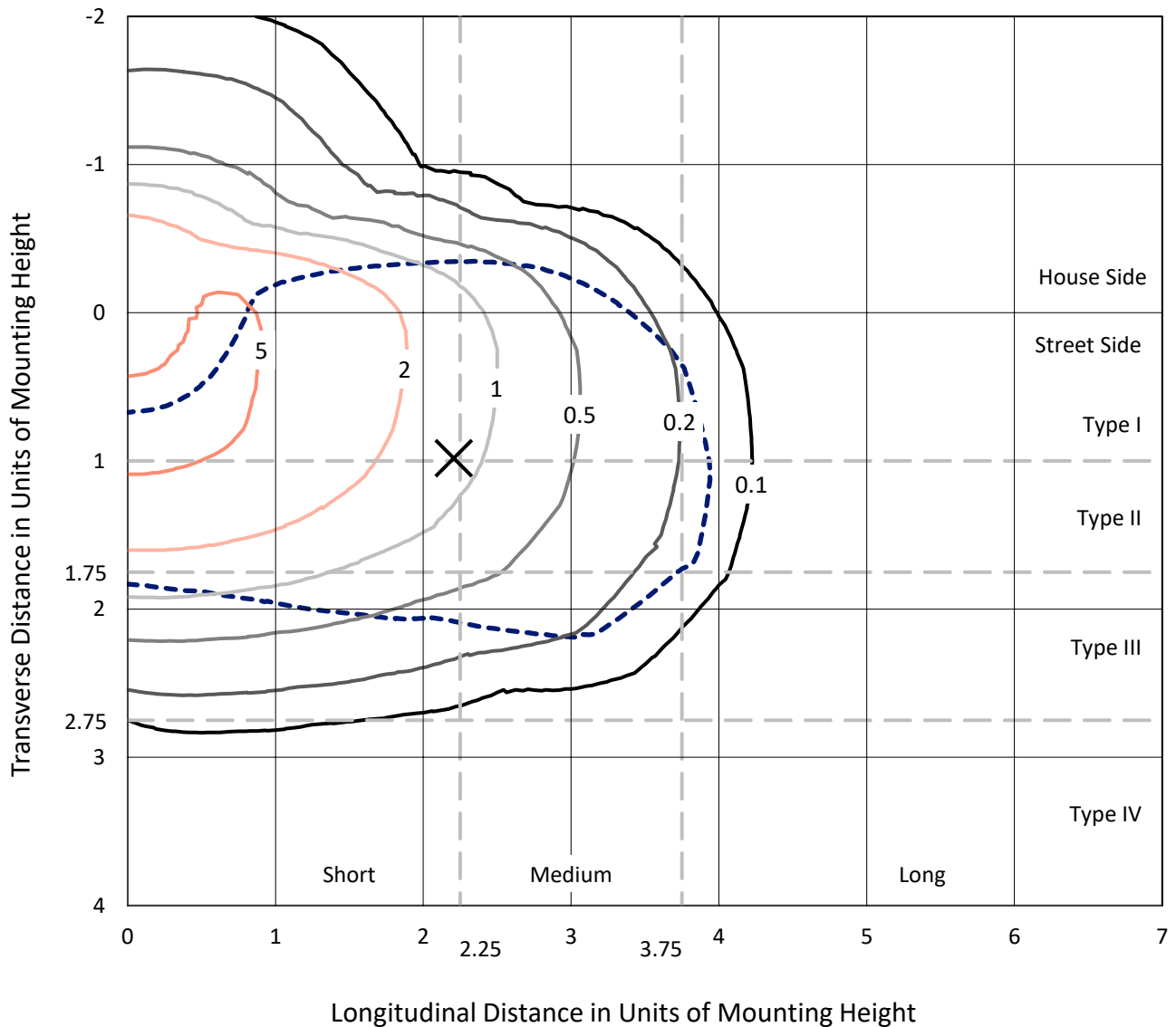
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

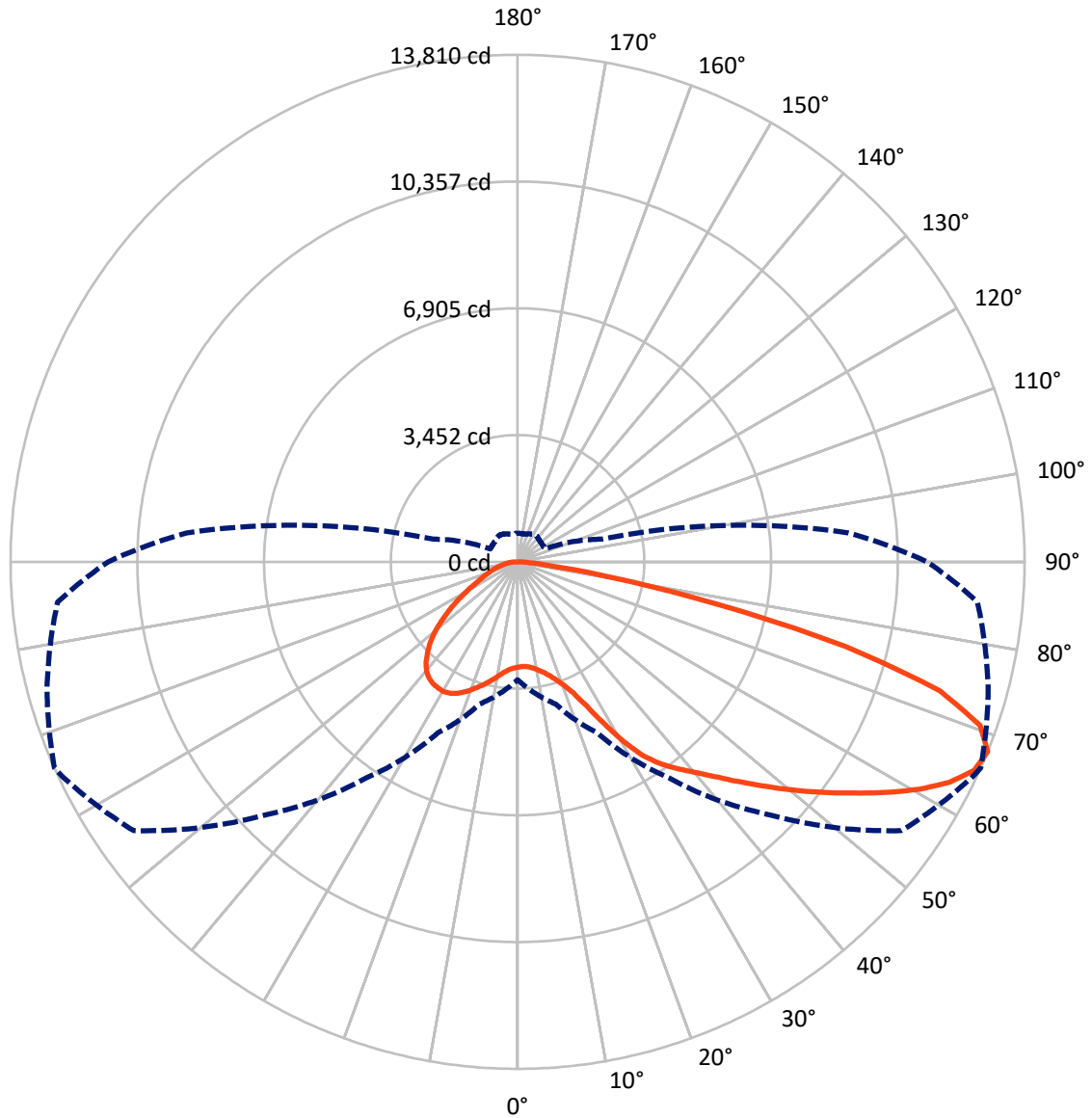
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6432.5	0.0	6432.5
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	19437.5	0.0	19437.5
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	25870.0	0.0	25870.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.5	1.1
10°-20°	939.9	3.6
20°-30°	1811.6	7.0
30°-40°	3176.4	12.3
40°-50°	4722.2	18.3
50°-60°	5985.9	23.1
60°-70°	5857.0	22.6
70°-80°	2793.9	10.8
80°-90°	298.6	1.2
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°	25870.0	100.0
0°-180°	25870.0	100.0

**Coefficient of Utilization**



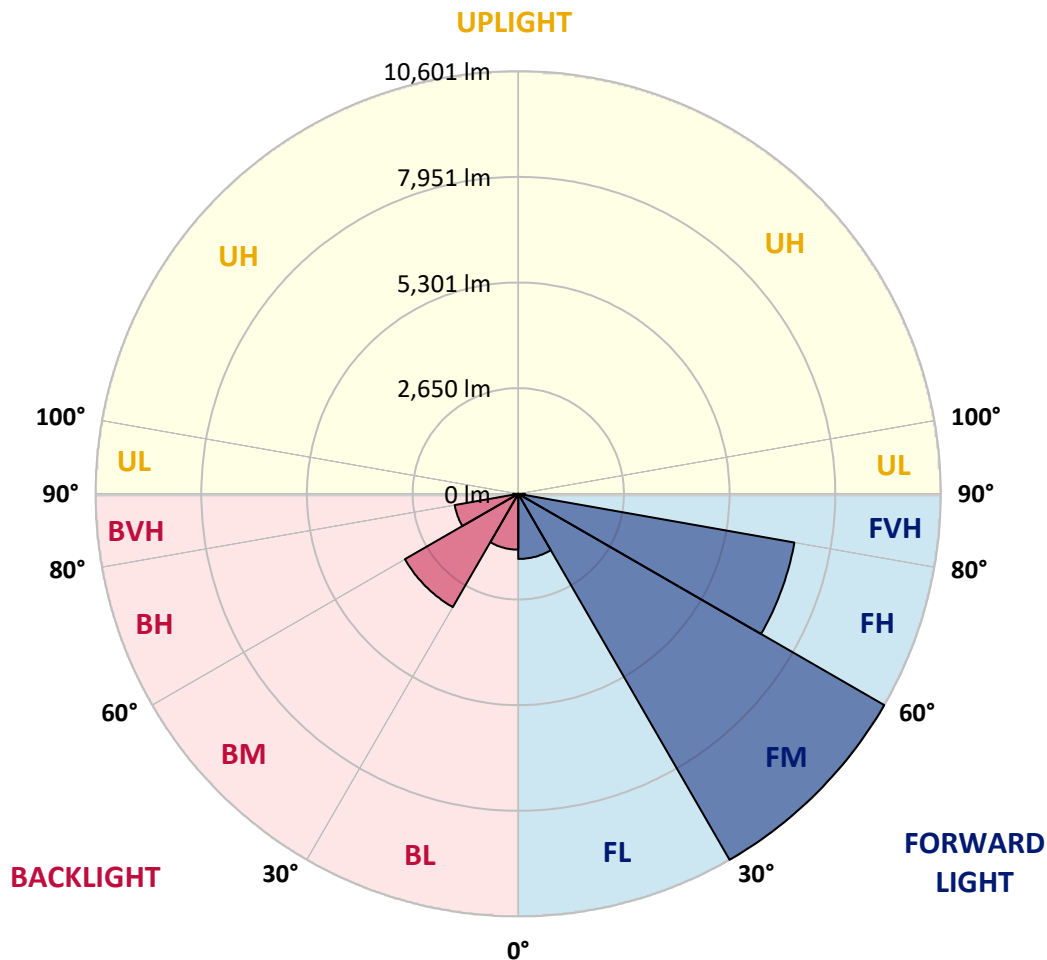
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1634.7	6.3			
FM (30°-60°)	10601.3	41.0			
FH (60°-80°)	7032.2	27.2			G3/7500
FVH (80°-90°)	169.3	0.7			G2/225
BL (0°-30°)	1401.2	5.4	B3/2500		
BM (30°-60°)	3283.2	12.7	B3/5000		
BH (60°-80°)	1618.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	129.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3
2.5°	2839.5	2855.8	2851.7	2844.9	2843.5	2846.2	2850.3	2854.4	2853.0	2859.9	2870.7
5°	2831.3	2847.6	2846.2	2846.2	2851.7	2862.5	2869.3	2876.1	2869.3	2877.5	2892.4
7.5°	2836.7	2848.9	2854.4	2859.9	2873.4	2893.8	2910.1	2925.0	2916.9	2926.4	2945.4
10°	2906.0	2915.5	2920.9	2920.9	2930.5	2953.6	2969.9	2997.1	2990.3	3005.2	3029.7
12.5°	3032.5	3041.9	3041.9	3036.5	3043.3	3058.3	3063.7	3093.6	3081.4	3105.9	3130.2
15°	3187.3	3206.4	3191.4	3181.9	3184.7	3199.6	3198.2	3221.4	3209.2	3229.5	3251.3
17.5°	3358.6	3383.1	3358.6	3357.3	3351.9	3368.2	3369.5	3389.9	3368.2	3383.1	3398.1
20°	3561.2	3595.2	3574.8	3581.6	3569.4	3576.1	3582.9	3612.8	3578.8	3589.8	3585.7
22.5°	3846.6	3887.4	3865.6	3891.4	3883.3	3877.9	3876.6	3929.5	3876.6	3880.5	3841.2
25°	4262.6	4311.5	4273.4	4308.7	4308.7	4326.4	4346.8	4414.8	4326.4	4300.6	4198.6
27.5°	4876.8	4925.8	4851.1	4872.8	4866.0	4909.5	4887.8	5056.3	4961.2	4919.1	4713.8
30°	5616.3	5703.3	5562.0	5556.5	5549.8	5619.0	5650.3	5761.7	5665.3	5623.2	5375.7
32.5°	6415.6	6506.6	6338.1	6289.1	6263.3	6305.4	6279.7	6369.3	6302.7	6237.4	5931.7
35°	7261.0	7350.7	7190.3	7095.2	6991.8	6903.5	6811.0	6834.2	6771.7	6672.4	6355.7
37.5°	8060.2	8224.7	8054.8	7952.8	7762.5	7589.9	7331.6	7224.3	7165.9	7074.8	6755.4
40°	8874.3	8968.1	8839.0	8752.1	8545.4	8274.9	7861.7	7634.7	7555.9	7467.5	7197.1
42.5°	9473.8	9563.5	9494.2	9434.4	9272.7	8958.6	8424.5	8140.3	8026.3	7927.0	7697.2
45°	9949.5	10016.1	9972.6	9994.4	9925.1	9620.5	9007.6	8682.7	8564.5	8443.5	8262.7
47.5°	10141.1	10211.9	10281.2	10410.3	10528.6	10304.3	9634.2	9269.9	9144.8	9021.1	8843.1
50°	10119.4	10191.5	10392.6	10667.2	11034.2	10959.4	10294.8	9895.1	9779.6	9638.3	9473.8
52.5°	9945.5	10027.0	10285.3	10741.9	11326.5	11450.1	10967.6	10540.8	10432.0	10263.5	10099.0
55°	9488.7	9537.6	9925.1	10572.1	11395.7	11792.6	11626.8	11228.6	11119.8	10884.7	10705.2
57.5°	8642.0	8712.6	9276.7	10114.0	11221.8	12025.1	12205.8	11951.7	11846.9	11508.6	11321.0
60°	7536.9	7649.7	8295.3	9344.6	10778.7	12023.7	12731.8	12662.5	12575.5	12122.9	11927.2
62.5°	6286.4	6416.9	7038.1	8257.3	10003.9	11682.5	13060.8	13257.9	13213.0	12689.7	12439.6
65°	4828.0	4917.6	5536.1	6850.5	8798.3	10949.9	13098.9	13664.3	13672.5	13120.6	12707.4
67.5°	3214.6	3472.8	4009.7	5140.6	7183.5	9752.5	12764.4	13730.9	13809.7	13268.7	12572.9
70°	1568.6	1908.3	2434.4	3341.0	5140.6	7916.1	11890.5	13184.5	13359.8	12836.5	11770.9
72.5°	651.1	761.2	1048.0	1648.7	2950.9	5341.8	10134.4	11702.9	12027.8	11374.0	9896.5
75°	439.0	475.7	599.4	845.4	1344.3	2634.1	7308.6	8726.2	9249.5	8590.3	7021.8
77.5°	338.5	361.5	436.3	591.2	799.2	996.3	3911.8	5258.9	5529.4	5118.8	3653.6
80°	266.4	284.0	326.3	430.9	566.8	532.8	1333.4	2382.7	2539.0	2130.0	1174.3
82.5°	231.0	237.9	233.8	292.2	376.5	311.3	437.7	879.4	970.5	704.1	383.3
85°	167.2	186.2	194.3	180.8	199.8	157.6	179.4	311.3	342.6	305.9	216.1
87.5°	68.0	100.6	123.7	116.8	73.4	44.9	55.8	91.0	104.7	114.2	70.7
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°	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3	2869.3
2.5°	2872.0	2881.6	2888.3	2896.5	2902.0	2910.1	2926.4	2935.9	2937.2	2944.1	2942.7
5°	2897.9	2911.4	2926.4	2948.2	2972.6	2993.0	3024.3	3046.0	3054.2	3061.0	3059.6
7.5°	2953.6	2972.6	2999.8	3037.9	3073.2	3100.4	3138.4	3164.3	3190.1	3199.6	3201.0
10°	3036.5	3063.7	3103.1	3154.7	3192.8	3228.1	3267.6	3289.3	3315.2	3326.0	3331.5
12.5°	3139.8	3168.4	3220.0	3292.0	3327.4	3351.9	3365.5	3360.1	3365.5	3374.9	3377.7
15°	3258.1	3289.3	3347.8	3425.2	3449.7	3428.0	3398.1	3370.9	3366.8	3369.5	3379.0
17.5°	3398.1	3421.1	3489.1	3554.4	3536.7	3447.0	3381.8	3338.2	3316.5	3309.7	3319.3
20°	3593.8	3593.8	3649.5	3690.3	3572.0	3419.8	3317.8	3247.2	3202.3	3183.3	3179.2
22.5°	3831.7	3809.9	3845.3	3816.7	3565.3	3343.7	3202.3	3080.0	3012.1	2984.9	2980.8
25°	4133.4	4107.6	4098.1	3921.3	3516.3	3222.7	2993.0	2844.9	2785.0	2770.1	2772.8
27.5°	4588.7	4523.5	4399.8	3978.4	3426.6	3032.5	2748.3	2611.1	2577.1	2578.5	2582.5
30°	5194.9	5064.4	4761.3	3988.0	3279.8	2763.3	2498.2	2400.3	2384.0	2390.9	2414.0
32.5°	5756.3	5632.6	5131.0	3944.5	3054.2	2499.6	2274.0	2208.8	2184.3	2192.5	2203.3
35°	6196.7	6162.7	5473.6	3883.3	2776.9	2252.2	2072.9	2017.1	1969.5	1958.7	1966.8
37.5°	6612.6	6599.1	5730.5	3797.6	2502.3	2076.9	1911.1	1837.6	1768.3	1730.3	1731.6
40°	7069.3	7055.7	5899.1	3665.8	2259.0	1924.6	1765.7	1669.1	1583.5	1514.1	1521.0
42.5°	7583.2	7502.9	5979.2	3476.9	2052.5	1795.5	1647.4	1516.9	1404.0	1340.2	1344.3
45°	8144.4	7963.7	5977.9	3236.3	1878.4	1677.3	1521.0	1336.1	1231.4	1171.7	1168.9
47.5°	8739.8	8404.1	5904.5	2969.9	1709.9	1546.8	1325.2	1183.9	1114.6	1077.9	1069.7
50°	9354.2	8815.9	5779.5	2664.1	1537.3	1398.6	1202.9	1106.4	1053.4	1019.5	1007.2
52.5°	9931.8	9189.7	5628.6	2317.5	1361.9	1254.6	1148.5	1073.8	1018.0	980.0	963.7
55°	10468.7	9511.9	5415.2	1962.7	1219.2	1158.0	1122.7	1060.2	996.3	951.5	933.8
57.5°	10945.9	9721.2	5046.8	1629.7	1117.2	1091.4	1095.5	1037.1	963.7	925.7	901.2
60°	11342.8	9874.7	4501.8	1321.1	1034.3	1026.2	1053.4	993.6	907.9	864.5	845.4
62.5°	11580.6	9872.1	3833.0	1082.0	963.7	966.4	997.6	939.2	852.2	811.5	799.2
65°	11560.2	9630.1	3099.0	925.7	895.7	898.4	939.2	879.4	806.1	781.6	780.2
67.5°	11151.1	9040.2	2377.3	823.7	820.9	833.2	880.8	838.7	777.5	774.8	778.8
70°	10043.3	7815.5	1712.7	742.1	743.5	761.2	823.7	812.8	762.5	767.9	766.6
72.5°	8053.4	5958.8	1149.9	656.5	657.8	686.4	769.4	792.4	747.5	819.6	830.5
75°	5363.5	3716.1	739.4	565.4	566.8	603.5	721.7	753.0	706.8	816.9	823.7
77.5°	2577.1	1670.4	535.6	475.7	475.7	509.7	623.9	674.1	602.2	634.8	581.8
80°	890.3	627.9	421.4	383.3	375.2	398.2	526.0	584.5	519.3	478.5	448.5
82.5°	350.7	326.3	338.5	297.7	270.5	285.5	409.1	482.6	381.9	345.2	343.9
85°	201.2	212.1	239.2	197.1	156.3	175.4	300.4	346.6	288.1	254.2	259.6
87.5°	54.3	74.7	110.1	102.0	70.7	74.7	142.7	191.7	165.8	127.8	131.8
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)