

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: P883999

Luminaire Tested: **NAV-SB4C-835-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-835-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25626 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

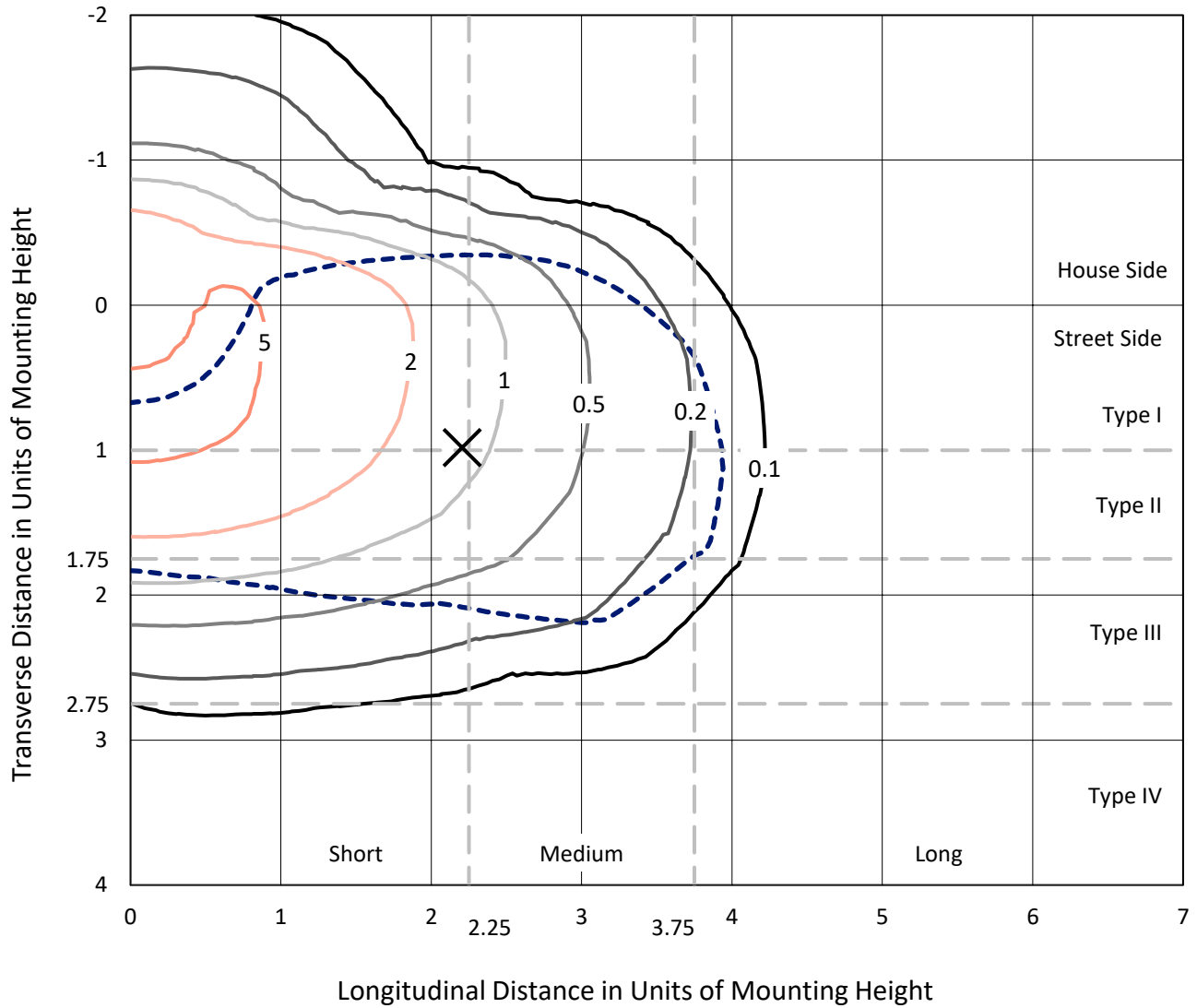
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

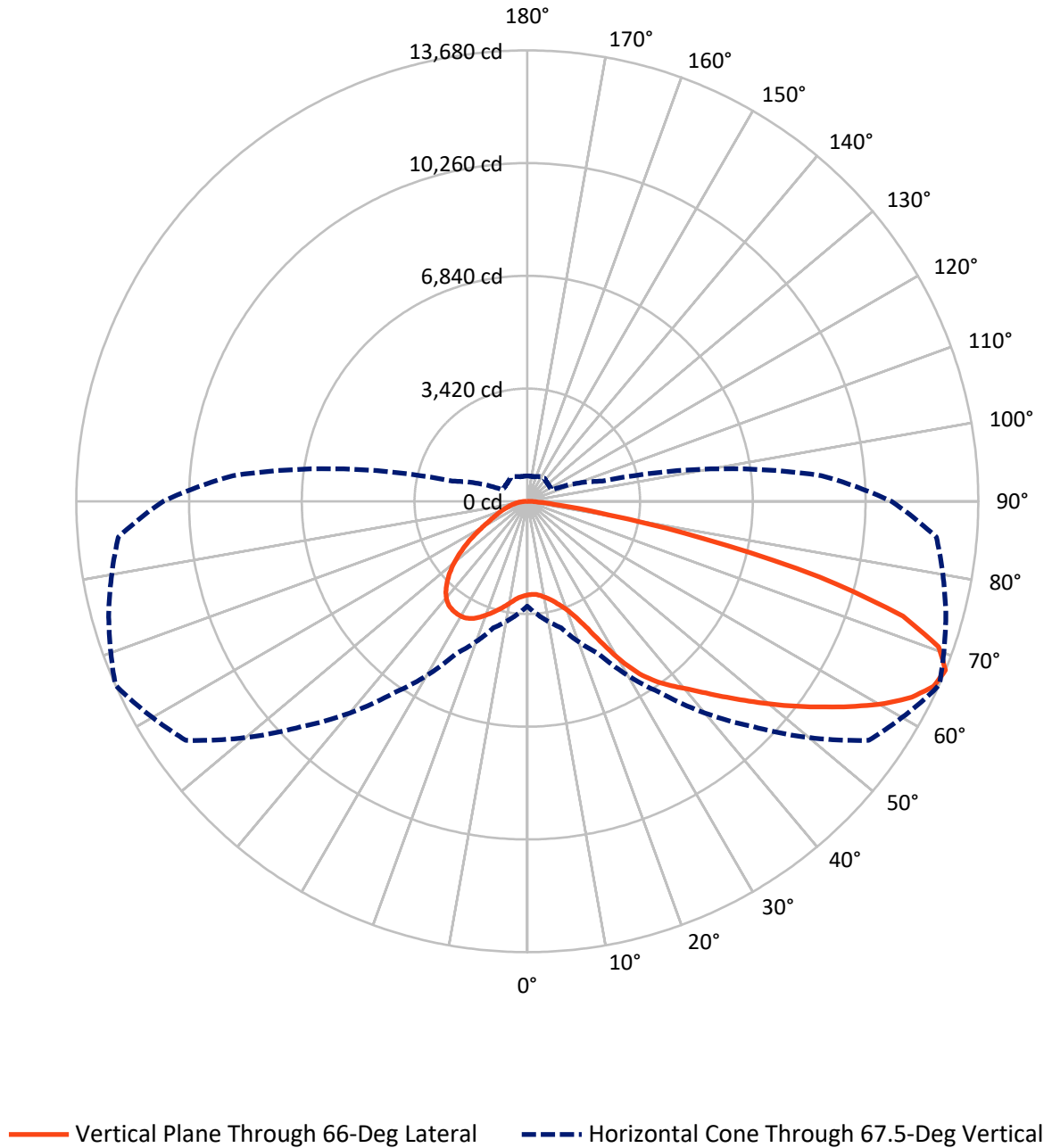
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6371.8	0.0	6371.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	19254.2	0.0	19254.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	25626.0	0.0	25626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	1.1
10°-20°	931.0	3.6
20°-30°	1794.5	7.0
30°-40°	3146.4	12.3
40°-50°	4677.7	18.3
50°-60°	5929.4	23.1
60°-70°	5801.8	22.6
70°-80°	2767.5	10.8
80°-90°	295.8	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°	25626.0	100.0
0°-180°	25626.0	100.0

Coefficient of Utilization



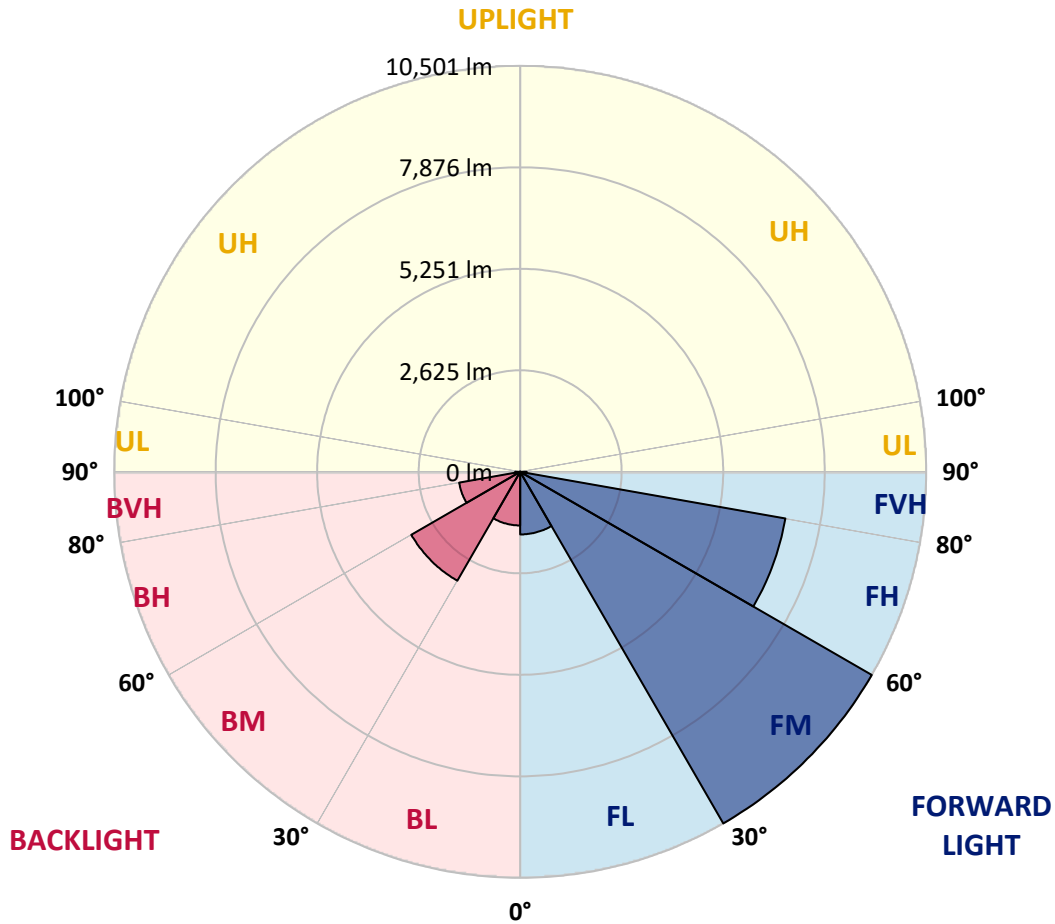
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1619.3	6.3			
FM (30°-60°)	10501.3	41.0			
FH (60°-80°)	6965.9	27.2			G3/7500
FVH (80°-90°)	167.7	0.7			G2/225
BL (0°-30°)	1388.0	5.4	B3/2500		
BM (30°-60°)	3252.3	12.7	B3/5000		
BH (60°-80°)	1603.5	6.3	B3/2500		G3/2500
BVH (80°-90°)	128.1	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°	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3
2.5°	2812.6	2828.8	2824.8	2818.0	2816.7	2819.4	2823.4	2827.5	2826.1	2832.8	2843.6
5°	2804.6	2820.7	2819.4	2819.4	2824.8	2835.5	2842.3	2849.0	2842.3	2850.3	2865.2
7.5°	2809.9	2822.1	2827.5	2832.8	2846.3	2866.5	2882.7	2897.5	2889.4	2898.8	2917.7
10°	2878.6	2888.0	2893.4	2893.4	2902.9	2925.7	2941.9	2968.8	2962.1	2976.9	3001.1
12.5°	3003.8	3013.3	3013.3	3007.9	3014.6	3029.4	3034.8	3064.4	3052.3	3076.5	3100.8
15°	3157.3	3176.2	3161.4	3151.9	3154.6	3169.4	3168.1	3191.0	3178.9	3199.1	3220.6
17.5°	3327.0	3351.2	3327.0	3325.6	3320.2	3336.4	3337.7	3357.9	3336.4	3351.2	3366.0
20°	3527.6	3561.2	3541.0	3547.8	3535.7	3542.4	3549.1	3578.7	3545.1	3555.9	3551.8
22.5°	3810.3	3850.7	3829.2	3854.8	3846.7	3841.3	3839.9	3892.5	3839.9	3844.0	3804.9
25°	4222.3	4270.8	4233.1	4268.1	4268.1	4285.6	4305.8	4373.1	4285.6	4260.0	4159.0
27.5°	4830.9	4879.4	4805.3	4826.9	4820.1	4863.2	4841.7	5008.6	4914.4	4872.6	4669.3
30°	5563.3	5649.5	5509.5	5504.1	5497.4	5566.0	5597.0	5707.4	5611.8	5570.1	5325.0
32.5°	6355.0	6445.2	6278.3	6229.8	6204.2	6246.0	6220.4	6309.3	6243.3	6178.7	5875.7
35°	7192.5	7281.4	7122.5	7028.2	6925.9	6838.4	6746.8	6769.7	6707.8	6609.5	6295.8
37.5°	7984.2	8147.1	7978.8	7877.8	7689.3	7518.3	7262.5	7156.1	7098.2	7008.0	6691.6
40°	8790.7	8883.6	8755.7	8669.5	8464.9	8196.9	7787.6	7562.8	7484.7	7397.2	7129.2
42.5°	9384.4	9473.3	9404.6	9345.4	9185.2	8874.2	8345.0	8063.6	7950.5	7852.2	7624.7
45°	9855.7	9921.7	9878.6	9900.1	9831.5	9529.9	8922.6	8600.8	8483.7	8363.9	8184.8
47.5°	10045.5	10115.5	10184.2	10312.1	10429.3	10207.1	9543.3	9182.5	9058.6	8936.1	8759.7
50°	10024.0	10095.3	10294.6	10566.6	10930.1	10856.1	10197.7	9801.8	9687.4	9547.4	9384.4
52.5°	9851.6	9932.4	10188.3	10640.6	11219.6	11342.1	10864.1	10441.4	10333.7	10166.7	10003.8
55°	9399.3	9447.7	9831.5	10472.3	11288.3	11681.4	11517.2	11122.7	11014.9	10782.0	10604.3
57.5°	8560.4	8630.5	9189.2	10018.6	11115.9	11911.6	12090.7	11838.9	11735.3	11400.0	11214.2
60°	7465.8	7577.6	8217.1	9256.5	10677.0	11910.3	12611.8	12543.1	12456.9	12008.6	11814.7
62.5°	6227.1	6356.4	6971.7	8179.4	9909.5	11572.4	12937.6	13132.8	13088.4	12570.0	12322.3
65°	4782.4	4871.3	5483.9	6785.9	8715.3	10846.6	12975.3	13535.4	13543.5	12996.9	12587.5
67.5°	3184.2	3440.1	3971.9	5092.1	7115.8	9660.5	12644.1	13601.4	13679.5	13143.6	12454.3
70°	1553.8	1890.4	2411.4	3309.5	5092.1	7841.5	11778.4	13060.1	13233.8	12715.5	11659.9
72.5°	644.9	754.0	1038.1	1633.2	2923.0	5291.4	10038.8	11592.6	11914.3	11266.7	9803.2
75°	434.9	471.2	593.8	837.5	1331.6	2609.3	7239.6	8643.9	9162.3	8509.3	6955.5
77.5°	335.3	358.1	432.2	585.7	791.7	986.9	3875.0	5209.2	5477.2	5070.6	3619.1
80°	263.9	281.4	323.1	426.8	561.5	527.8	1320.8	2360.2	2515.1	2109.8	1163.3
82.5°	228.9	235.6	231.6	289.5	373.0	308.3	433.5	871.1	961.3	697.4	379.7
85°	165.6	184.5	192.5	179.1	197.9	156.2	177.7	308.3	339.3	302.9	214.1
87.5°	67.3	99.6	122.5	115.8	72.7	44.4	55.2	90.2	103.7	113.1	70.0
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°	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3	2842.3
2.5°	2845.0	2854.4	2861.1	2869.2	2874.6	2882.7	2898.8	2908.2	2909.6	2916.3	2915.0
5°	2870.5	2884.0	2898.8	2920.4	2944.6	2964.8	2995.8	3017.3	3025.4	3032.1	3030.8
7.5°	2925.7	2944.6	2971.5	3009.2	3044.2	3071.2	3108.9	3134.4	3160.0	3169.4	3170.8
10°	3007.9	3034.8	3073.8	3125.0	3162.7	3197.7	3236.8	3258.3	3283.9	3294.7	3300.0
12.5°	3110.2	3138.5	3189.6	3261.0	3296.0	3320.2	3333.7	3328.3	3333.7	3343.1	3345.8
15°	3227.3	3258.3	3316.2	3392.9	3417.2	3395.6	3366.0	3339.1	3335.0	3337.7	3347.2
17.5°	3366.0	3388.9	3456.2	3520.9	3503.3	3414.5	3349.9	3306.8	3285.2	3278.5	3287.9
20°	3559.9	3559.9	3615.1	3655.5	3538.4	3387.6	3286.6	3216.6	3172.1	3153.3	3149.2
22.5°	3795.5	3774.0	3809.0	3780.7	3531.6	3312.2	3172.1	3051.0	2983.6	2956.7	2952.7
25°	4094.4	4068.8	4059.4	3884.4	3483.2	3192.3	2964.8	2818.0	2758.8	2744.0	2746.7
27.5°	4545.5	4480.8	4358.3	3940.9	3394.3	3003.8	2722.4	2586.4	2552.8	2554.1	2558.2
30°	5146.0	5016.7	4716.5	3950.4	3248.9	2737.2	2474.7	2377.8	2361.6	2368.3	2391.2
32.5°	5702.0	5579.5	5082.7	3907.3	3025.4	2476.0	2252.5	2187.9	2163.7	2171.8	2182.5
35°	6138.3	6104.6	5422.0	3846.7	2750.7	2231.0	2053.3	1998.1	1950.9	1940.2	1948.2
37.5°	6550.3	6536.8	5676.4	3761.9	2478.7	2057.3	1893.0	1820.3	1751.7	1714.0	1715.3
40°	7002.7	6989.2	5843.4	3631.3	2237.7	1906.5	1749.0	1653.4	1568.6	1499.9	1506.6
42.5°	7511.6	7432.2	5922.8	3444.1	2033.1	1778.6	1631.8	1502.6	1390.8	1327.6	1331.6
45°	8067.7	7888.6	5921.5	3205.8	1860.7	1661.5	1506.6	1323.5	1219.8	1160.6	1157.9
47.5°	8657.4	8324.8	5848.8	2941.9	1693.8	1532.2	1312.7	1172.7	1104.1	1067.7	1059.6
50°	9266.0	8732.8	5724.9	2639.0	1522.8	1385.5	1191.6	1096.0	1043.5	1009.8	997.7
52.5°	9838.2	9103.0	5575.5	2295.6	1349.1	1242.7	1137.7	1063.7	1008.5	970.8	954.6
55°	10370.0	9422.1	5364.1	1944.2	1207.7	1147.1	1112.1	1050.2	986.9	942.5	925.0
57.5°	10842.6	9629.5	4999.2	1614.3	1106.7	1081.2	1085.2	1027.3	954.6	916.9	892.7
60°	11235.8	9781.6	4459.3	1308.7	1024.6	1016.5	1043.5	984.2	899.4	856.3	837.5
62.5°	11471.4	9778.9	3796.9	1071.7	954.6	957.3	988.3	930.4	844.2	803.8	791.7
65°	11451.2	9539.3	3069.8	916.9	887.3	890.0	930.4	871.1	798.4	774.2	772.8
67.5°	11045.9	8954.9	2354.9	815.9	813.2	825.3	872.5	830.7	770.1	767.5	771.5
70°	9948.6	7741.8	1696.5	735.1	736.5	754.0	815.9	805.2	755.3	760.7	759.4
72.5°	7977.5	5902.6	1139.1	650.3	651.7	679.9	762.1	785.0	740.5	811.9	822.7
75°	5312.9	3681.1	732.4	560.1	561.5	597.8	714.9	745.9	700.1	809.2	815.9
77.5°	2552.8	1654.7	530.5	471.2	471.2	504.9	618.0	667.8	596.5	628.8	576.3
80°	881.9	622.0	417.4	379.7	371.6	394.5	521.1	579.0	514.3	473.9	444.3
82.5°	347.4	323.1	335.3	294.9	267.9	282.7	405.3	478.0	378.3	342.0	340.6
85°	199.3	210.0	237.0	195.2	154.8	173.7	297.6	343.3	285.4	251.8	257.2
87.5°	53.9	74.1	109.1	101.0	70.0	74.1	141.4	189.8	164.3	126.6	130.6
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)