

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: P883909

Luminaire Tested: **NAV-SB4C-722-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883909  
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-722-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

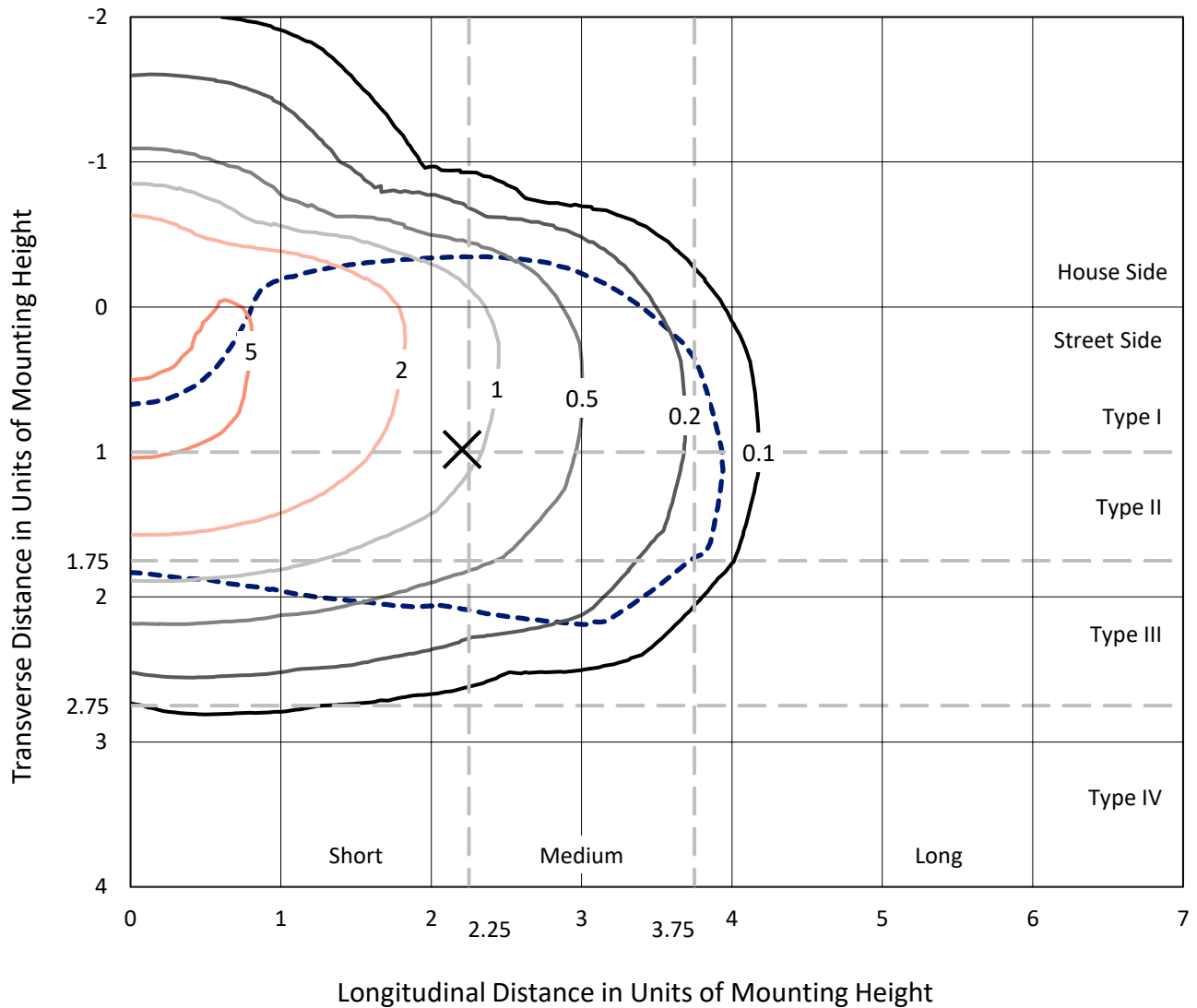
Lumens per Lamp: N/A  
Luminaire Lumens: 24202 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): 120.0  
Input Current (Ain): 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

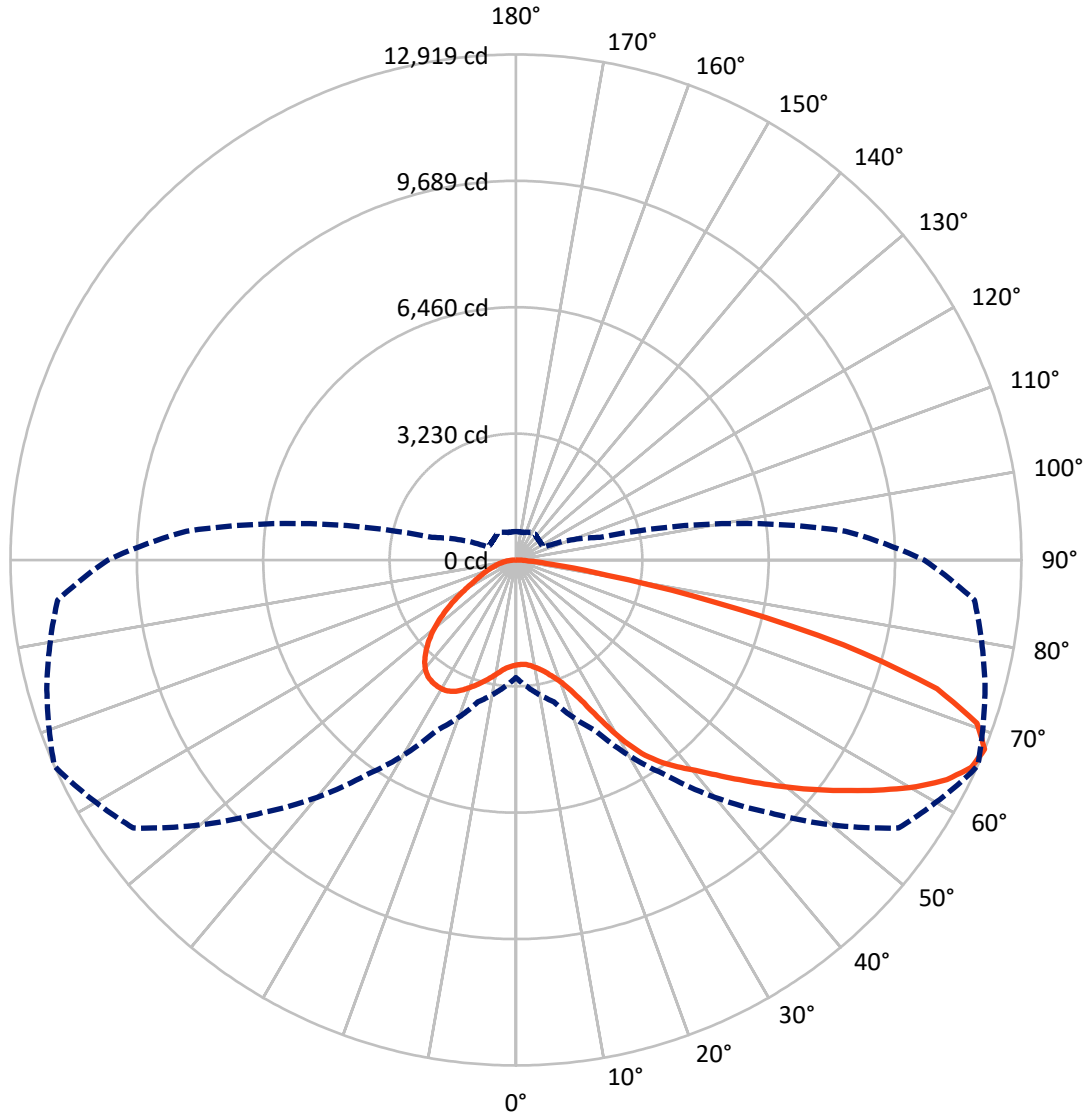
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	6017.8	0.0	6017.8
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	18184.2	0.0	18184.2
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	24202.0	0.0	24202.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.1	1.1
10°-20°	879.3	3.6
20°-30°	1694.8	7.0
30°-40°	2971.6	12.3
40°-50°	4417.8	18.3
50°-60°	5600.0	23.1
60°-70°	5479.4	22.6
70°-80°	2613.7	10.8
80°-90°	279.3	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°	24202.0	100.0
0°-180°	24202.0	100.0

**Coefficient of Utilization**



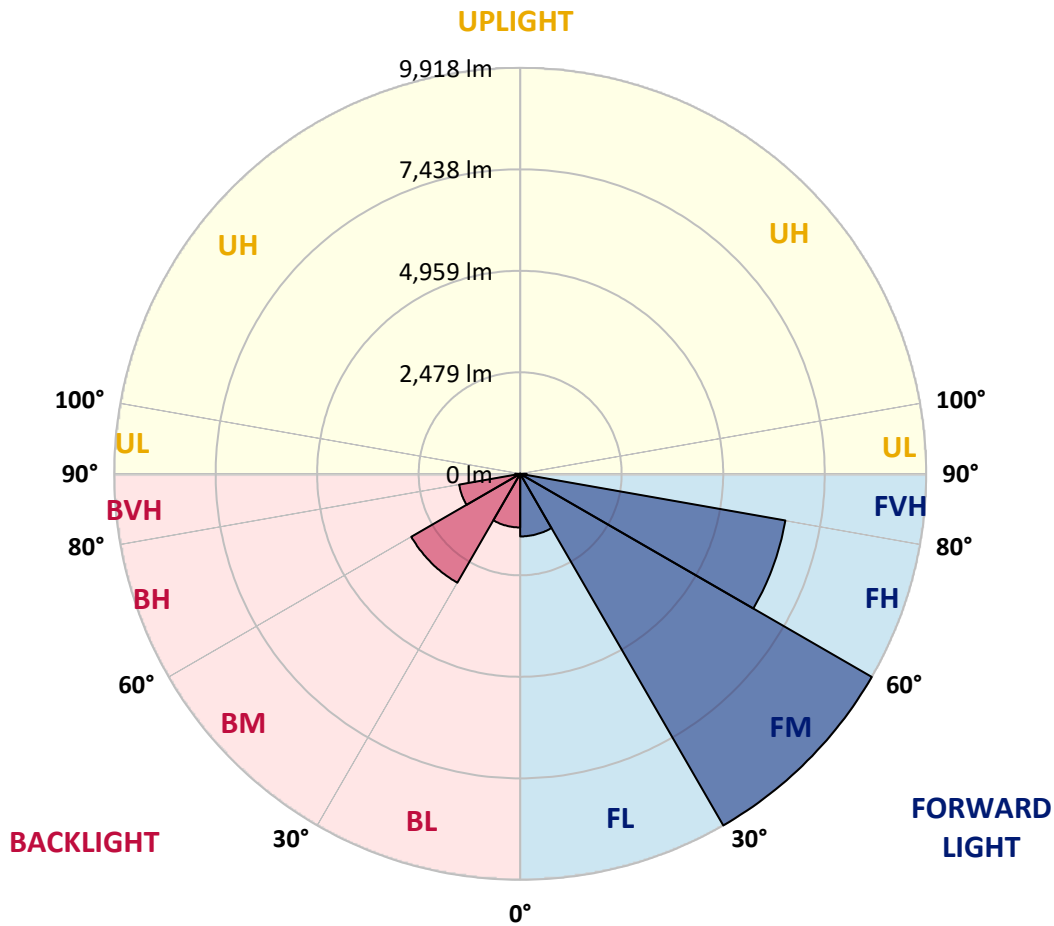
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1529.3	6.3			
FM (30°-60°)	9917.8	41.0			
FH (60°-80°)	6578.8	27.2			G3/7500
FVH (80°-90°)	158.4	0.7			G2/225
BL (0°-30°)	1310.9	5.4	B3/2500		
BM (30°-60°)	3071.5	12.7	B3/5000		
BH (60°-80°)	1514.4	6.3	B3/2500		G3/2500
BVH (80°-90°)	121.0	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°	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3
2.5°	2656.3	2671.6	2667.8	2661.4	2660.2	2662.7	2666.5	2670.3	2669.1	2675.4	2685.6
5°	2648.7	2664.0	2662.7	2662.7	2667.8	2678.0	2684.3	2690.7	2684.3	2692.0	2705.9
7.5°	2653.8	2665.2	2670.3	2675.4	2688.1	2707.2	2722.5	2736.5	2728.8	2737.7	2755.5
10°	2718.7	2727.6	2732.6	2732.6	2741.5	2763.2	2778.4	2803.9	2797.5	2811.5	2834.4
12.5°	2836.9	2845.8	2845.8	2840.7	2847.1	2861.1	2866.2	2894.1	2882.7	2905.6	2928.5
15°	2981.9	2999.7	2985.7	2976.8	2979.3	2993.3	2992.0	3013.7	3002.2	3021.3	3041.6
17.5°	3142.1	3165.0	3142.1	3140.8	3135.7	3151.0	3152.3	3171.3	3151.0	3165.0	3179.0
20°	3331.6	3363.3	3344.3	3350.6	3339.2	3345.5	3351.9	3379.9	3348.1	3358.3	3354.4
22.5°	3598.6	3636.7	3616.4	3640.6	3632.9	3627.8	3626.6	3676.2	3626.6	3630.4	3593.5
25°	3987.7	4033.5	3997.9	4030.9	4030.9	4047.5	4066.5	4130.1	4047.5	4023.3	3927.9
27.5°	4562.5	4608.2	4538.3	4558.6	4552.3	4593.0	4572.6	4730.3	4641.3	4601.9	4409.9
30°	5254.2	5335.6	5203.3	5198.3	5191.9	5256.7	5286.0	5390.3	5300.0	5260.6	5029.1
32.5°	6001.9	6087.1	5929.4	5883.6	5859.5	5898.9	5874.7	5958.7	5896.4	5835.3	5549.2
35°	6792.8	6876.7	6726.7	6637.7	6541.0	6458.4	6371.9	6393.5	6335.0	6242.2	5945.9
37.5°	7540.5	7694.4	7535.4	7440.1	7262.0	7100.5	6858.9	6758.5	6703.8	6618.6	6319.8
40°	8302.2	8389.9	8269.1	8187.8	7994.5	7741.4	7354.9	7142.5	7068.8	6986.1	6733.1
42.5°	8863.0	8946.9	8882.0	8826.1	8674.8	8381.0	7881.3	7615.5	7508.7	7415.9	7201.0
45°	9308.0	9370.3	9329.6	9350.0	9285.1	9000.3	8426.8	8122.9	8012.3	7899.1	7730.0
47.5°	9487.3	9553.4	9618.3	9739.1	9849.7	9639.9	9013.0	8672.2	8555.2	8439.5	8272.9
50°	9467.0	9534.4	9722.6	9979.4	10322.7	10252.8	9631.0	9257.2	9149.1	9016.8	8863.0
52.5°	9304.2	9380.5	9622.1	10049.4	10596.1	10711.9	10260.4	9861.2	9759.4	9601.8	9447.9
55°	8877.0	8922.7	9285.1	9890.4	10661.0	11032.3	10877.2	10504.6	10402.9	10182.9	10015.0
57.5°	8084.8	8150.9	8678.6	9461.9	10498.2	11249.7	11418.9	11181.1	11083.2	10766.5	10591.1
60°	7051.0	7156.5	7760.5	8742.2	10083.7	11248.5	11911.0	11846.1	11764.7	11341.3	11158.2
62.5°	5881.1	6003.2	6584.3	7724.9	9358.9	10929.3	12218.7	12403.1	12361.1	11871.5	11637.6
65°	4516.7	4600.6	5179.2	6408.8	8231.0	10243.9	12254.3	12783.3	12790.9	12274.6	11888.1
67.5°	3007.3	3248.9	3751.2	4809.1	6720.3	9123.6	11941.5	12845.6	12919.3	12413.2	11762.2
70°	1467.4	1785.3	2277.4	3125.6	4809.1	7405.7	11123.8	12334.4	12498.4	12008.9	11011.9
72.5°	609.1	712.1	980.4	1542.4	2760.6	4997.3	9481.0	10948.4	11252.3	10640.6	9258.4
75°	410.7	445.1	560.8	790.9	1257.6	2464.3	6837.3	8163.6	8653.2	8036.4	6569.0
77.5°	316.6	338.2	408.2	553.1	747.7	932.1	3659.6	4919.8	5172.8	4788.8	3418.0
80°	249.2	265.8	305.2	403.1	530.3	498.5	1247.4	2229.1	2375.3	1992.6	1098.7
82.5°	216.2	222.5	218.7	273.4	352.2	291.2	409.5	822.7	907.9	658.7	358.6
85°	156.4	174.2	181.8	169.1	186.9	147.5	167.8	291.2	320.4	286.1	202.2
87.5°	63.6	94.1	115.7	109.4	68.7	42.0	52.1	85.2	97.9	106.8	66.1
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°	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3
2.5°	2686.9	2695.8	2702.1	2709.8	2714.8	2722.5	2737.7	2746.6	2747.9	2754.3	2753.0
5°	2711.0	2723.7	2737.7	2758.1	2781.0	2800.0	2829.3	2849.6	2857.3	2863.6	2862.3
7.5°	2763.2	2781.0	2806.4	2842.0	2875.1	2900.5	2936.1	2960.3	2984.4	2993.3	2994.6
10°	2840.7	2866.2	2903.0	2951.4	2987.0	3020.0	3056.9	3077.2	3101.4	3111.6	3116.7
12.5°	2937.4	2964.1	3012.4	3079.8	3112.8	3135.7	3148.5	3143.4	3148.5	3157.4	3159.9
15°	3048.0	3077.2	3131.9	3204.4	3227.3	3206.9	3179.0	3153.5	3149.7	3152.3	3161.2
17.5°	3179.0	3200.6	3264.2	3325.2	3308.7	3224.7	3163.7	3123.0	3102.7	3096.3	3105.2
20°	3362.1	3362.1	3414.2	3452.4	3341.7	3199.3	3103.9	3037.8	2995.9	2978.1	2974.2
22.5°	3584.6	3564.3	3597.3	3570.6	3335.4	3128.1	2995.9	2881.4	2817.8	2792.4	2788.6
25°	3866.9	3842.7	3833.8	3668.5	3289.6	3014.9	2800.0	2661.4	2605.5	2591.5	2594.0
27.5°	4292.9	4231.8	4116.1	3721.9	3205.7	2836.9	2571.2	2442.7	2410.9	2412.2	2416.0
30°	4860.0	4737.9	4454.4	3730.8	3068.3	2585.1	2337.2	2245.6	2230.4	2236.7	2258.3
32.5°	5385.2	5269.5	4800.2	3690.1	2857.3	2338.4	2127.4	2066.3	2043.4	2051.1	2061.2
35°	5797.2	5765.4	5120.7	3632.9	2597.9	2107.0	1939.2	1887.0	1842.5	1832.4	1840.0
37.5°	6186.3	6173.6	5361.0	3552.8	2341.0	1943.0	1787.9	1719.2	1654.3	1618.7	1620.0
40°	6613.5	6600.8	5518.7	3429.5	2113.4	1800.6	1651.8	1561.5	1481.4	1416.5	1422.9
42.5°	7094.2	7019.2	5593.7	3252.7	1920.1	1679.8	1541.2	1419.1	1313.6	1253.8	1257.6
45°	7619.4	7450.2	5592.4	3027.7	1757.3	1569.1	1422.9	1250.0	1152.1	1096.1	1093.6
47.5°	8176.3	7862.2	5523.8	2778.4	1599.7	1447.1	1239.8	1107.6	1042.7	1008.4	1000.7
50°	8751.1	8247.5	5406.8	2492.3	1438.2	1308.5	1125.4	1035.1	985.5	953.7	942.2
52.5°	9291.5	8597.2	5265.6	2168.1	1274.1	1173.7	1074.5	1004.6	952.4	916.8	901.6
55°	9793.8	8898.6	5066.0	1836.2	1140.6	1083.4	1050.3	991.8	932.1	890.1	873.6
57.5°	10240.1	9094.4	4721.4	1524.6	1045.2	1021.1	1024.9	970.2	901.6	866.0	843.1
60°	10611.4	9238.1	4211.5	1236.0	967.7	960.0	985.5	929.5	849.4	808.7	790.9
62.5°	10833.9	9235.5	3585.9	1012.2	901.6	904.1	933.3	878.7	797.3	759.1	747.7
65°	10814.9	9009.2	2899.2	866.0	838.0	840.5	878.7	822.7	754.1	731.2	729.9
67.5°	10432.1	8457.3	2224.0	770.6	768.0	779.5	824.0	784.6	727.3	724.8	728.6
70°	9395.8	7311.6	1602.2	694.3	695.6	712.1	770.6	760.4	713.4	718.4	717.2
72.5°	7534.2	5574.6	1075.8	614.2	615.4	642.2	719.7	741.3	699.4	766.8	776.9
75°	5017.7	3476.5	691.7	529.0	530.3	564.6	675.2	704.5	661.2	764.2	770.6
77.5°	2410.9	1562.8	501.0	445.1	445.1	476.8	583.7	630.7	563.3	593.8	544.2
80°	832.9	587.5	394.2	358.6	351.0	372.6	492.1	546.8	485.7	447.6	419.6
82.5°	328.1	305.2	316.6	278.5	253.0	267.0	382.7	451.4	357.3	323.0	321.7
85°	188.2	198.4	223.8	184.4	146.2	164.0	281.0	324.3	269.6	237.8	242.9
87.5°	50.9	69.9	103.0	95.4	66.1	69.9	133.5	179.3	155.1	119.5	123.3
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)