

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: P883251

Luminaire Tested: **NAV-SB3C-730-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883251  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3C-730-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

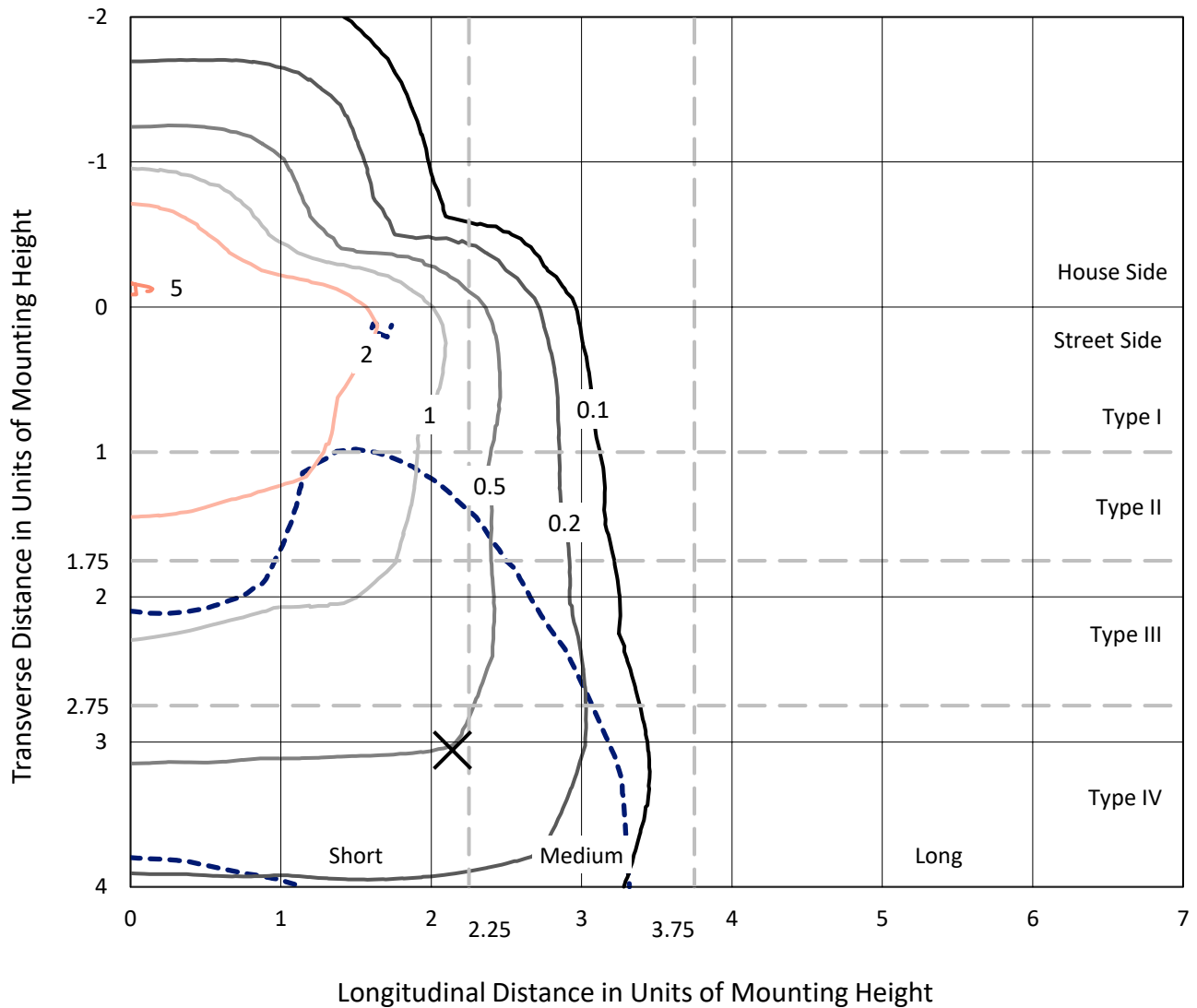
Lumens per Lamp: N/A  
Luminaire Lumens: 21855 lumens  
Efficiency: N/A  
Efficacy: 146.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.259  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
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

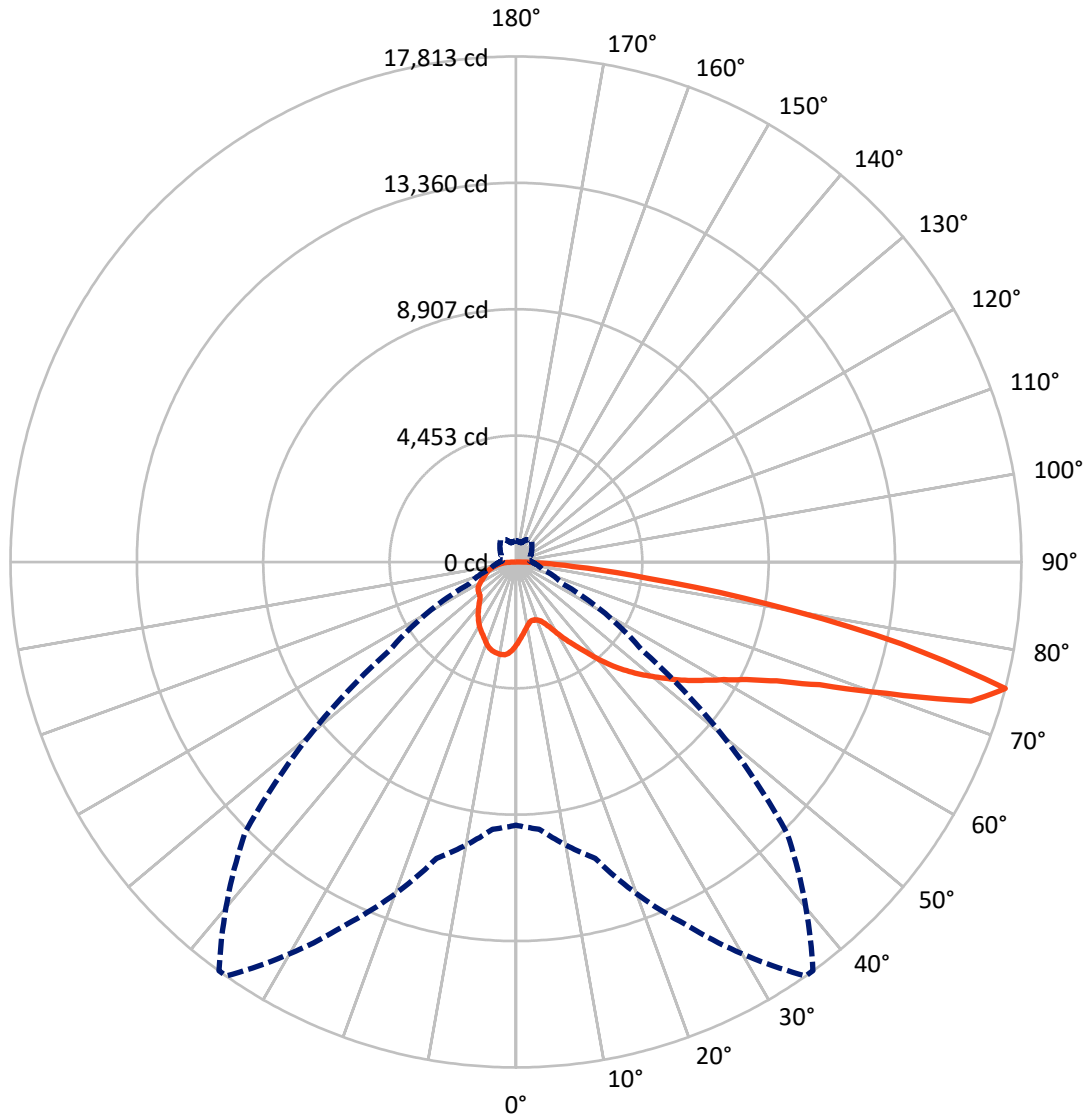
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5200.9	0.0	5200.9
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	16654.1	0.0	16654.1
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	21855.0	0.0	21855.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.7	1.3
10°-20°	795.4	3.6
20°-30°	1335.6	6.1
30°-40°	2075.7	9.5
40°-50°	3080.9	14.1
50°-60°	4253.4	19.5
60°-70°	5160.3	23.6
70°-80°	4264.6	19.5
80°-90°	613.4	2.8
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°	21855.0	100.0
0°-180°	21855.0	100.0

**Coefficient of Utilization**



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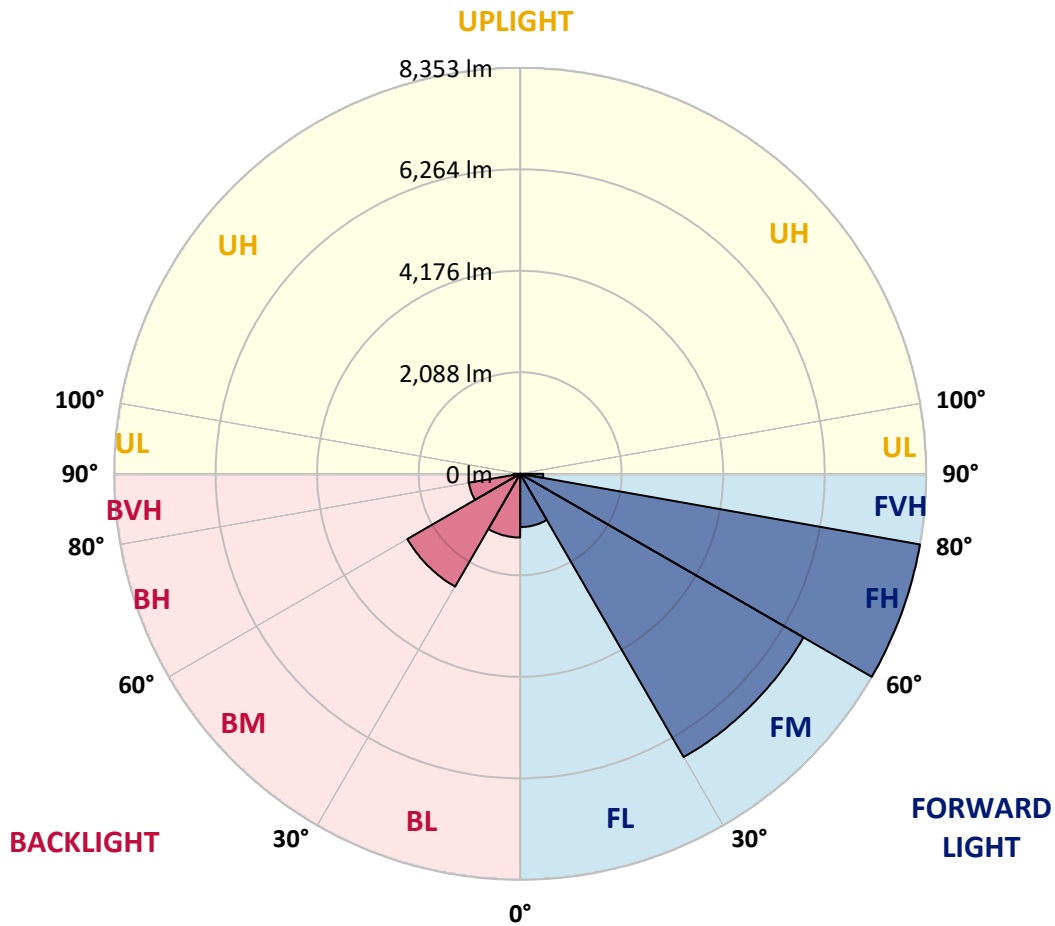
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.0	5.0			
FM (30°-60°)	6730.2	30.8			
FH (60°-80°)	8352.6	38.2			G4/12000
FVH (80°-90°)	475.3	2.2			G3/500
BL (0°-30°)	1310.7	6.0	B3/2500		
BM (30°-60°)	2679.8	12.3	B3/5000		
BH (60°-80°)	1072.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	138.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3
2.5°	2685.5	2702.0	2709.1	2705.6	2723.3	2720.9	2745.7	2776.5	2819.0	2860.3	2920.6
5°	2478.7	2496.4	2511.8	2526.0	2560.2	2570.9	2609.9	2668.9	2746.9	2826.1	2925.3
7.5°	2286.1	2301.5	2325.1	2351.1	2409.0	2419.7	2484.6	2576.8	2685.5	2801.3	2938.3
10°	2129.0	2144.4	2169.2	2198.7	2270.8	2283.8	2366.5	2489.4	2631.1	2777.6	2952.5
12.5°	2061.7	2066.4	2080.6	2110.1	2172.7	2181.0	2272.0	2412.6	2578.0	2759.9	2973.8
15°	2058.1	2067.6	2068.8	2084.1	2136.1	2139.6	2223.5	2362.9	2544.9	2756.4	3005.7
17.5°	2093.6	2100.7	2090.0	2099.5	2143.2	2149.1	2215.3	2339.3	2534.3	2771.7	3060.0
20°	2188.1	2194.0	2162.1	2149.1	2181.0	2185.7	2250.7	2354.7	2544.9	2803.6	3134.4
22.5°	2388.9	2392.5	2314.5	2261.3	2263.7	2266.1	2322.8	2417.3	2586.2	2861.5	3229.0
25°	2702.0	2699.7	2575.6	2472.8	2413.7	2400.7	2438.6	2518.9	2655.9	2938.3	3350.7
27.5°	3068.3	3050.6	2926.5	2772.9	2644.1	2625.2	2617.0	2651.2	2755.2	3039.9	3499.5
30°	3481.8	3465.3	3331.7	3130.9	2952.5	2921.8	2843.8	2826.1	2902.9	3178.2	3706.3
32.5°	3935.5	3924.8	3765.3	3522.0	3283.3	3247.9	3116.7	3069.5	3129.7	3387.3	3994.6
35°	4315.9	4306.5	4174.1	3923.7	3631.8	3588.1	3454.6	3401.5	3432.2	3655.5	4371.4
37.5°	4659.7	4655.0	4541.6	4344.3	4043.0	3989.8	3839.8	3822.1	3816.2	4008.7	4828.7
40°	4978.7	4966.9	4848.8	4744.8	4521.5	4473.1	4340.7	4325.4	4280.5	4443.5	5346.2
42.5°	5332.0	5301.3	5129.9	5081.5	5021.3	4981.1	4901.9	4904.3	4805.0	4933.8	5894.4
45°	5620.3	5602.5	5426.5	5398.1	5463.1	5446.6	5515.1	5532.8	5340.2	5447.8	6463.8
47.5°	5929.8	5913.3	5764.4	5744.3	5920.4	5925.1	6167.3	6173.2	5862.5	5981.8	7034.5
50°	6311.4	6287.8	6140.1	6164.9	6362.2	6379.9	6823.0	6782.8	6343.3	6524.1	7600.4
52.5°	6563.1	6577.3	6545.4	6585.5	6854.9	6871.4	7468.1	7365.3	6819.5	7059.3	8155.7
55°	6748.6	6776.9	6876.2	6968.3	7374.7	7391.3	8076.5	7919.4	7214.1	7555.5	8677.9
57.5°	6987.2	6947.1	7132.5	7312.1	7868.6	7912.3	8668.5	8453.4	7563.8	7983.2	9035.9
60°	7329.8	7301.5	7445.6	7711.5	8421.5	8491.2	9294.6	8934.3	7820.2	8322.3	9105.6
62.5°	8024.6	7953.7	7976.1	8211.2	9118.6	9210.7	10001.2	9353.7	7947.8	8454.6	8732.3
65°	9063.1	8941.4	8828.0	8991.0	10100.4	10191.4	10798.6	9683.3	7900.5	8198.2	7741.0
67.5°	10371.0	10250.4	10111.0	10264.6	11546.5	11618.6	11782.8	9868.8	7528.3	7210.5	5988.9
70°	11449.6	11404.7	11571.3	12203.4	13856.3	13858.7	13044.6	9715.2	6508.7	5112.2	3465.3
72.5°	11306.7	11279.5	12157.3	14111.5	16767.4	16704.8	14239.1	8552.7	4384.4	2306.2	1298.4
75°	9275.7	9451.8	10811.6	14077.2	17813.0	17804.8	13507.8	5437.1	1813.6	955.8	671.1
77.5°	4974.0	5252.8	7019.1	10393.4	13905.9	14115.0	9496.7	1902.2	778.6	612.0	464.3
80°	1622.2	1865.5	2797.7	5291.8	9035.9	8996.9	4070.2	746.7	532.8	433.6	321.4
82.5°	688.8	717.2	1250.0	2498.8	4637.3	4565.2	1296.1	428.9	374.5	296.5	198.5
85°	269.4	301.3	551.7	1155.5	2008.5	1964.8	467.9	212.7	239.8	193.8	118.1
87.5°	88.6	107.5	197.3	395.8	625.0	602.6	114.6	73.3	104.0	88.6	42.5
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°	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3
2.5°	2937.1	2956.0	2978.5	3011.6	3039.9	3063.6	3088.4	3103.7	3109.6	3127.4	3126.2
5°	2958.4	2999.8	3055.3	3109.6	3162.8	3194.7	3223.1	3237.2	3250.2	3259.7	3262.0
7.5°	2993.8	3047.0	3134.4	3205.3	3250.2	3276.2	3295.1	3290.4	3295.1	3297.5	3301.0
10°	3024.6	3099.0	3203.0	3270.3	3304.6	3305.8	3301.0	3284.5	3276.2	3277.4	3279.8
12.5°	3061.2	3143.9	3256.1	3312.8	3322.3	3296.3	3276.2	3247.9	3237.2	3232.5	3230.1
15°	3110.8	3205.3	3314.0	3335.3	3311.7	3278.6	3244.3	3198.2	3174.6	3155.7	3161.6
17.5°	3171.1	3275.0	3358.9	3343.6	3292.8	3238.4	3182.9	3113.2	3064.7	3044.7	3045.8
20°	3255.0	3348.3	3393.2	3325.8	3249.0	3166.3	3071.8	2986.8	2941.9	2921.8	2919.4
22.5°	3356.6	3446.4	3426.3	3295.1	3186.4	3054.1	2936.0	2873.3	2850.9	2836.7	2839.1
25°	3478.3	3555.0	3449.9	3250.2	3083.6	2905.2	2814.3	2794.2	2783.5	2772.9	2772.9
27.5°	3636.6	3677.9	3467.6	3184.1	2923.0	2746.9	2713.8	2717.4	2713.8	2696.1	2699.7
30°	3845.7	3837.4	3484.2	3076.6	2738.7	2604.0	2606.3	2621.7	2624.0	2612.2	2618.1
32.5°	4121.0	4037.1	3492.4	2937.1	2562.6	2478.7	2481.1	2497.6	2509.4	2489.4	2498.8
35°	4454.1	4269.8	3479.4	2762.3	2426.7	2359.4	2341.7	2346.4	2349.9	2331.0	2344.0
37.5°	4842.9	4530.9	3421.5	2568.5	2314.5	2242.4	2204.6	2172.7	2153.8	2136.1	2147.9
40°	5269.4	4815.7	3315.2	2379.5	2189.3	2118.4	2061.7	2001.4	1937.6	1914.0	1924.6
42.5°	5716.0	5108.7	3186.4	2198.7	2045.1	1987.2	1927.0	1839.6	1743.9	1695.4	1701.3
45°	6179.1	5408.8	3060.0	2020.3	1897.4	1872.6	1802.9	1697.8	1593.8	1532.4	1527.6
47.5°	6632.8	5692.3	2874.5	1840.7	1759.2	1786.4	1732.0	1635.2	1519.4	1422.5	1411.9
50°	7066.4	5958.2	2570.9	1658.8	1647.0	1760.4	1708.4	1569.0	1436.7	1312.6	1302.0
52.5°	7496.4	6173.2	2182.2	1493.4	1586.7	1753.3	1677.7	1524.1	1362.2	1232.3	1218.1
55°	7861.5	6284.2	1807.7	1351.6	1499.3	1693.0	1641.1	1470.9	1257.1	1118.9	1107.0
57.5°	8069.4	6194.5	1495.7	1212.2	1378.8	1593.8	1578.4	1357.5	1131.8	1025.5	1011.3
60°	7979.7	5830.6	1240.5	1090.5	1264.2	1486.3	1469.8	1245.3	1036.2	935.7	921.5
62.5°	7484.6	5137.0	1038.5	984.2	1160.2	1376.4	1361.1	1159.0	962.9	866.0	850.7
65°	6487.5	4178.9	881.4	895.6	1055.1	1244.1	1266.5	1087.0	905.0	810.5	795.1
67.5°	4948.0	3026.9	758.5	818.8	952.3	1114.1	1179.1	1035.0	856.6	766.8	752.6
70°	2820.2	1719.0	654.5	744.3	861.3	993.6	1111.8	993.6	804.6	730.1	720.7
72.5°	1069.2	789.2	565.9	669.9	773.9	892.0	1037.3	928.6	744.3	688.8	679.3
75°	570.7	480.9	476.1	582.5	673.4	792.8	944.0	864.8	699.4	727.8	751.4
77.5°	388.7	340.3	398.2	498.6	563.6	682.9	844.8	768.0	606.1	603.7	556.5
80°	269.4	241.0	323.7	401.7	436.0	574.2	737.2	659.3	493.9	460.8	440.7
82.5°	161.9	157.1	242.2	300.1	308.4	443.1	610.8	552.9	404.1	352.1	354.4
85°	88.6	93.3	154.8	176.0	179.6	309.5	478.5	427.7	310.7	261.1	263.5
87.5°	24.8	31.9	56.7	69.7	86.2	160.7	284.7	254.0	156.0	108.7	108.7
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)