

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: P883241

Luminaire Tested: **NAV-SB3C-727-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883241  
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-727-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

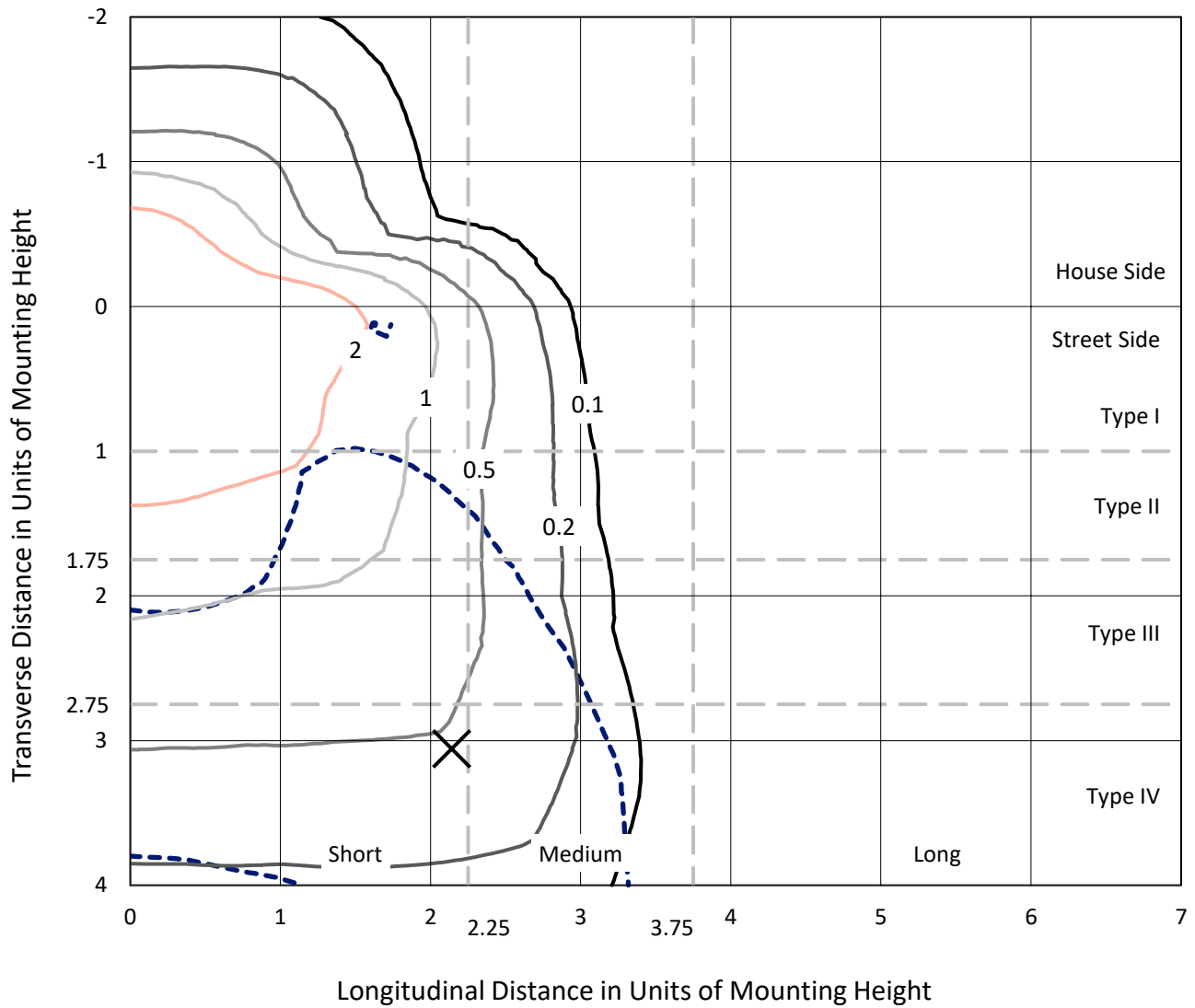
Lumens per Lamp: N/A  
Luminaire Lumens: 20121 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 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

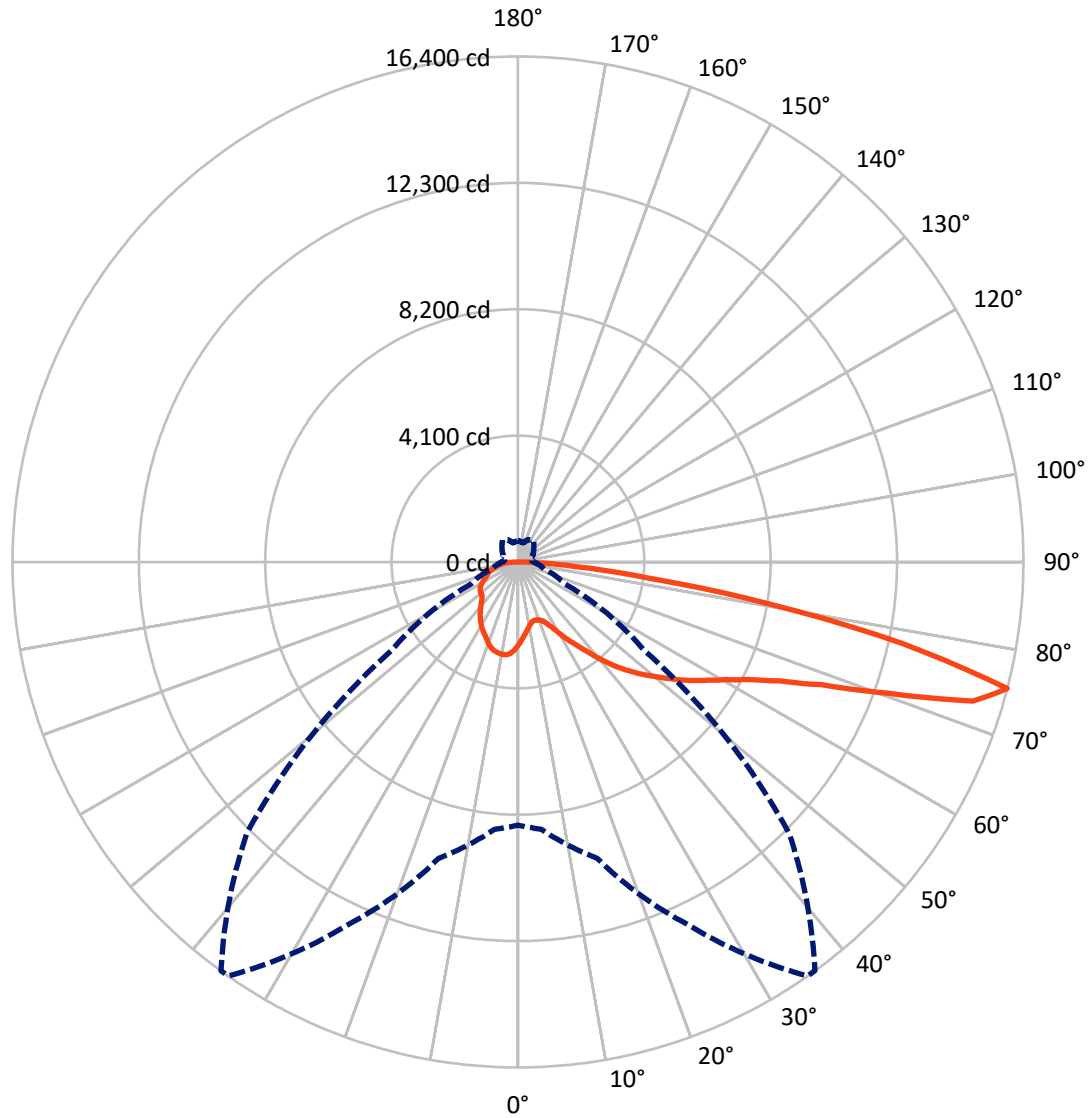
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	4788.3	0.0	4788.3
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	15332.7	0.0	15332.7
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	20121.0	0.0	20121.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.9	1.3
10°-20°	732.2	3.6
20°-30°	1229.6	6.1
30°-40°	1911.0	9.5
40°-50°	2836.5	14.1
50°-60°	3915.9	19.5
60°-70°	4750.9	23.6
70°-80°	3926.2	19.5
80°-90°	564.7	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°	20121.0	100.0
0°-180°	20121.0	100.0

**Coefficient of Utilization**



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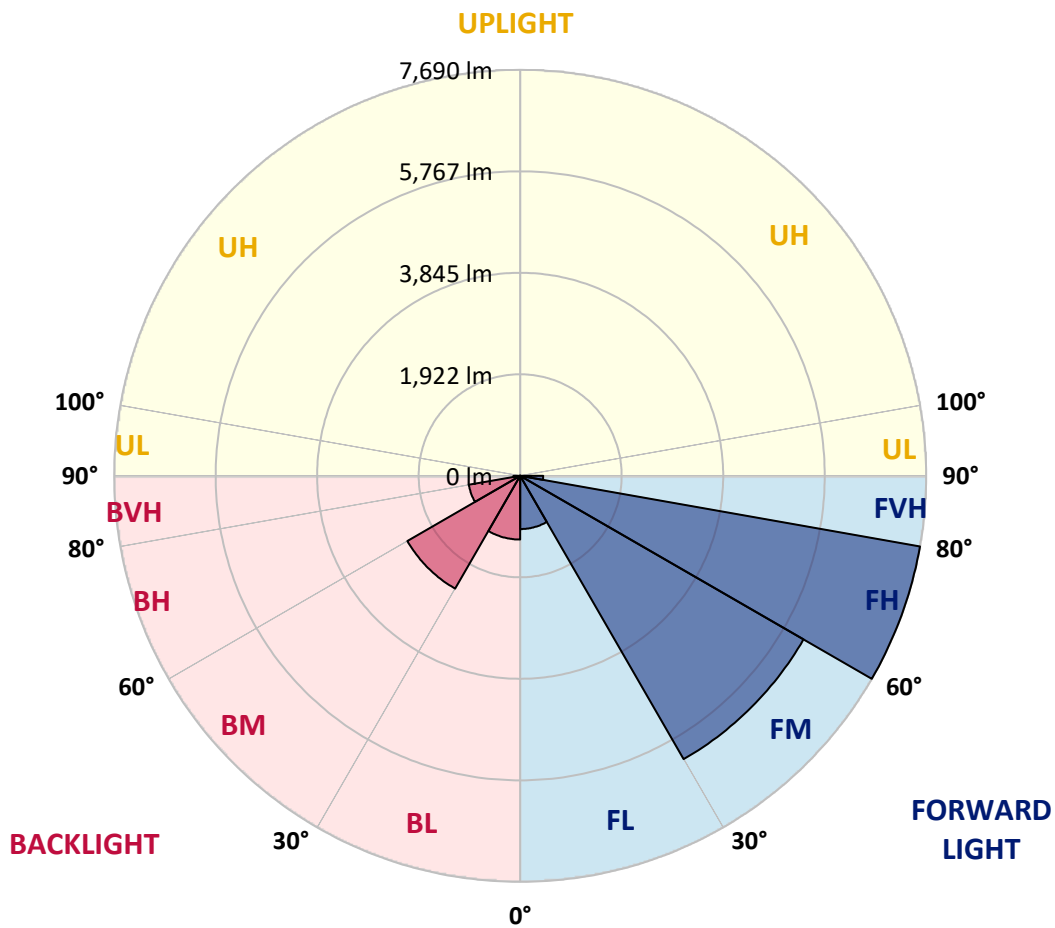
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1009.0	5.0			
FM (30°-60°)	6196.2	30.8			
FH (60°-80°)	7689.9	38.2			G4/12000
FVH (80°-90°)	437.6	2.2			G3/500
BL (0°-30°)	1206.7	6.0	B3/2500		
BM (30°-60°)	2467.2	12.3	B2/2500		
BH (60°-80°)	987.2	4.9	B2/1000		G2/1000
BVH (80°-90°)	127.2	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°	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3
2.5°	2472.4	2487.6	2494.2	2490.9	2507.2	2505.0	2527.9	2556.2	2595.3	2633.4	2688.9
5°	2282.1	2298.4	2312.5	2325.6	2357.1	2366.9	2402.8	2457.2	2529.0	2601.9	2693.2
7.5°	2104.8	2118.9	2140.7	2164.6	2217.9	2227.7	2287.5	2372.3	2472.4	2579.0	2705.2
10°	1960.1	1974.2	1997.1	2024.3	2090.6	2102.6	2178.7	2291.9	2422.4	2557.3	2718.2
12.5°	1898.1	1902.4	1915.5	1942.7	2000.3	2008.0	2091.7	2221.1	2373.4	2540.9	2737.8
15°	1894.8	1903.5	1904.6	1918.8	1966.6	1969.9	2047.1	2175.5	2343.0	2537.7	2767.2
17.5°	1927.5	1934.0	1924.2	1932.9	1973.1	1978.6	2039.5	2153.7	2333.2	2551.8	2817.2
20°	2014.5	2019.9	1990.5	1978.6	2008.0	2012.3	2072.1	2167.8	2343.0	2581.2	2885.8
22.5°	2199.4	2202.7	2130.9	2081.9	2084.1	2086.3	2138.5	2225.5	2381.0	2634.5	2972.8
25°	2487.6	2485.5	2371.3	2276.6	2222.2	2210.3	2245.1	2319.0	2445.2	2705.2	3084.8
27.5°	2824.8	2808.5	2694.3	2552.9	2434.3	2416.9	2409.3	2440.9	2536.6	2798.7	3221.9
30°	3205.5	3190.3	3067.4	2882.5	2718.2	2690.0	2618.2	2601.9	2672.6	2926.0	3412.2
32.5°	3623.2	3613.4	3466.6	3242.5	3022.8	2990.2	2869.4	2825.9	2881.4	3118.5	3677.6
35°	3973.5	3964.8	3843.0	3612.4	3343.7	3303.4	3180.5	3131.6	3159.9	3365.4	4024.6
37.5°	4290.0	4285.7	4181.2	3999.6	3722.2	3673.3	3535.1	3518.8	3513.4	3690.7	4445.6
40°	4583.7	4572.8	4464.1	4368.3	4162.8	4118.2	3996.3	3982.2	3940.9	4091.0	4922.0
42.5°	4908.9	4880.7	4722.9	4678.3	4622.9	4585.9	4513.0	4515.2	4423.8	4542.4	5426.7
45°	5174.3	5158.0	4996.0	4969.8	5029.7	5014.4	5077.5	5093.8	4916.5	5015.5	5951.0
47.5°	5459.3	5444.1	5307.0	5288.6	5450.6	5455.0	5678.0	5683.4	5397.3	5507.2	6476.4
50°	5810.7	5788.9	5652.9	5675.8	5857.4	5873.8	6281.7	6244.7	5840.0	6006.5	6997.4
52.5°	6042.4	6055.4	6026.0	6063.0	6311.0	6326.2	6875.6	6780.9	6278.4	6499.2	7508.6
55°	6213.1	6239.2	6330.6	6415.4	6789.6	6804.9	7435.7	7291.1	6641.7	6956.0	7989.4
57.5°	6432.8	6395.9	6566.6	6732.0	7244.3	7284.5	7980.7	7782.7	6963.7	7349.8	8319.0
60°	6748.3	6722.2	6854.9	7099.6	7753.4	7817.5	8557.2	8225.4	7199.7	7662.0	8383.2
62.5°	7387.9	7322.6	7343.3	7559.7	8395.1	8480.0	9207.7	8611.6	7317.2	7783.8	8039.4
65°	8344.0	8232.0	8127.5	8277.6	9299.0	9382.8	9941.9	8915.1	7273.7	7547.8	7126.8
67.5°	9548.1	9437.2	9308.8	9450.2	10630.4	10696.8	10848.0	9085.8	6931.0	6638.4	5513.7
70°	10541.2	10499.9	10653.2	11235.2	12756.9	12759.1	12009.6	8944.4	5992.3	4706.6	3190.3
72.5°	10409.6	10384.6	11192.8	12991.9	15437.1	15379.4	13109.3	7874.1	4036.6	2123.3	1195.4
75°	8539.8	8701.9	9953.8	12960.3	16399.7	16392.1	12436.0	5005.7	1669.7	880.0	617.8
77.5°	4579.4	4836.1	6462.2	9568.8	12802.6	12995.1	8743.2	1751.2	716.8	563.4	427.5
80°	1493.5	1717.5	2575.7	4872.0	8319.0	8283.1	3747.2	687.4	490.6	399.2	295.9
82.5°	634.1	660.3	1150.8	2300.6	4269.3	4203.0	1193.2	394.8	344.8	273.0	182.7
85°	248.0	277.4	508.0	1063.8	1849.1	1808.9	430.7	195.8	220.8	178.4	108.8
87.5°	81.6	99.0	181.7	364.4	575.4	554.7	105.5	67.4	95.7	81.6	39.2
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°	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3	2681.3
2.5°	2704.1	2721.5	2742.2	2772.6	2798.7	2820.5	2843.3	2857.5	2862.9	2879.2	2878.1
5°	2723.7	2761.8	2812.9	2862.9	2911.9	2941.2	2967.3	2980.4	2992.4	3001.1	3003.2
7.5°	2756.3	2805.3	2885.8	2951.0	2992.4	3016.3	3033.7	3029.3	3033.7	3035.9	3039.1
10°	2784.6	2853.1	2948.8	3010.8	3042.4	3043.5	3039.1	3023.9	3016.3	3017.4	3019.5
12.5°	2818.3	2894.5	2997.8	3050.0	3058.7	3034.8	3016.3	2990.2	2980.4	2976.0	2973.9
15°	2864.0	2951.0	3051.1	3070.7	3048.9	3018.5	2986.9	2944.5	2922.7	2905.3	2910.8
17.5°	2919.5	3015.2	3092.4	3078.3	3031.5	2981.5	2930.3	2866.2	2821.6	2803.1	2804.2
20°	2996.7	3082.6	3124.0	3062.0	2991.3	2915.1	2828.1	2749.8	2708.5	2690.0	2687.8
22.5°	3090.2	3172.9	3154.4	3033.7	2933.6	2811.8	2703.0	2645.4	2624.7	2611.6	2613.8
25°	3202.3	3273.0	3176.2	2992.4	2839.0	2674.7	2591.0	2572.5	2562.7	2552.9	2552.9
27.5°	3348.0	3386.1	3192.5	2931.4	2691.0	2529.0	2498.5	2501.8	2498.5	2482.2	2485.5
30°	3540.6	3533.0	3207.7	2832.5	2521.4	2397.4	2399.5	2413.7	2415.9	2405.0	2410.4
32.5°	3794.0	3716.8	3215.3	2704.1	2359.3	2282.1	2284.2	2299.5	2310.3	2291.9	2300.6
35°	4100.7	3931.1	3203.4	2543.1	2234.2	2172.2	2155.9	2160.2	2163.5	2146.1	2158.1
37.5°	4458.6	4171.5	3150.1	2364.7	2130.9	2064.5	2029.7	2000.3	1982.9	1966.6	1977.5
40°	4851.3	4433.6	3052.2	2190.7	2015.6	1950.3	1898.1	1842.6	1783.9	1762.1	1771.9
42.5°	5262.4	4703.4	2933.6	2024.3	1882.9	1829.6	1774.1	1693.6	1605.5	1560.9	1566.3
45°	5688.8	4979.6	2817.2	1860.0	1746.9	1724.1	1659.9	1563.1	1467.4	1410.8	1406.4
47.5°	6106.5	5240.7	2646.5	1694.7	1619.6	1644.7	1594.6	1505.4	1398.8	1309.6	1299.8
50°	6505.7	5485.4	2366.9	1527.2	1516.3	1620.7	1572.9	1444.5	1322.7	1208.5	1198.7
52.5°	6901.7	5683.4	2009.0	1374.9	1460.8	1614.2	1544.6	1403.2	1254.2	1134.5	1121.5
55°	7237.8	5785.6	1664.2	1244.4	1380.3	1558.7	1510.9	1354.2	1157.3	1030.1	1019.2
57.5°	7429.2	5703.0	1377.1	1116.0	1269.4	1467.4	1453.2	1249.8	1042.0	944.2	931.1
60°	7346.5	5368.0	1142.1	1004.0	1163.9	1368.4	1353.1	1146.5	953.9	861.5	848.4
62.5°	6890.8	4729.5	956.1	906.1	1068.2	1267.2	1253.1	1067.1	886.5	797.3	783.2
65°	5972.7	3847.3	811.4	824.5	971.3	1145.4	1166.0	1000.7	833.2	746.2	732.0
67.5°	4555.4	2786.8	698.3	753.8	876.7	1025.7	1085.6	952.9	788.6	705.9	692.9
70°	2596.4	1582.7	602.6	685.3	793.0	914.8	1023.6	914.8	740.7	672.2	663.5
72.5°	984.4	726.6	521.0	616.7	712.5	821.2	955.0	855.0	685.3	634.1	625.4
75°	525.4	442.7	438.4	536.3	620.0	729.9	869.1	796.2	643.9	670.0	691.8
77.5°	357.9	313.3	366.6	459.0	518.8	628.7	777.7	707.0	558.0	555.8	512.3
80°	248.0	221.9	298.0	369.8	401.4	528.6	678.7	607.0	454.7	424.2	405.7
82.5°	149.0	144.7	223.0	276.3	283.9	407.9	562.4	509.1	372.0	324.1	326.3
85°	81.6	85.9	142.5	162.1	165.3	285.0	440.5	393.8	286.1	240.4	242.6
87.5°	22.8	29.4	52.2	64.2	79.4	147.9	262.1	233.9	143.6	100.1	100.1
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)