

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: STREETWORKS

Report Number: P882724

Luminaire Tested: **NVN-SB2D-727-U-SL4**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB2D-727-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

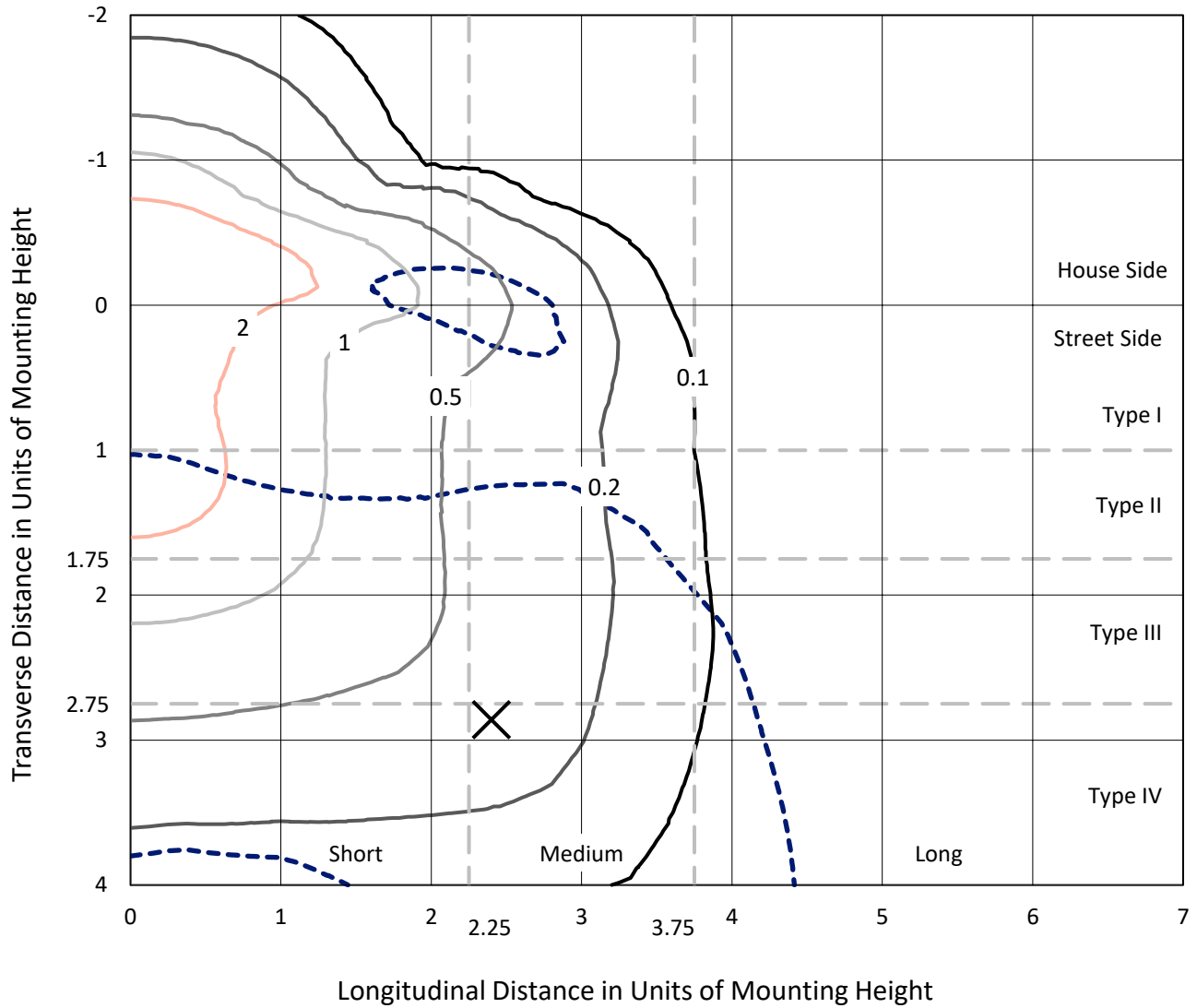
Lumens per Lamp: N/A  
Luminaire Lumens: 18631 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): 120.0  
Input Current (Ain): 1.234  
Voltage Rise (V): NR  
Power Factor: 0.999  
Total Harmonic Distortion (THDi): 3.108  
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

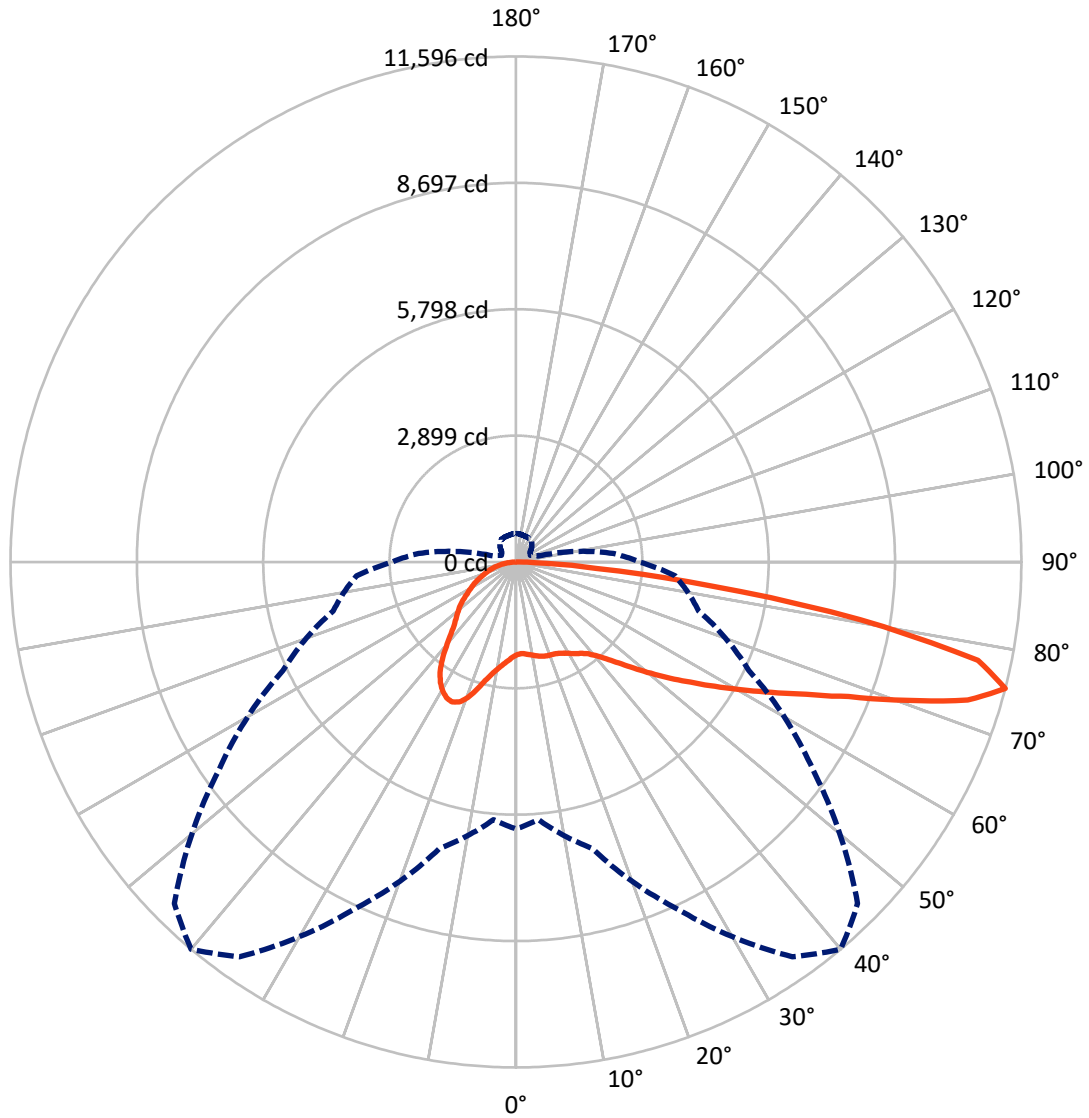
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5772.5	0.0	5772.5
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	12858.5	0.0	12858.5
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	18631.0	0.0	18631.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.7	1.1
10°-20°	714.0	3.8
20°-30°	1303.7	7.0
30°-40°	1849.0	9.9
40°-50°	2496.7	13.4
50°-60°	3358.8	18.0
60°-70°	4263.1	22.9
70°-80°	3869.0	20.8
80°-90°	564.0	3.0
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°	18631.0	100.0
0°-180°	18631.0	100.0

**Coefficient of Utilization**



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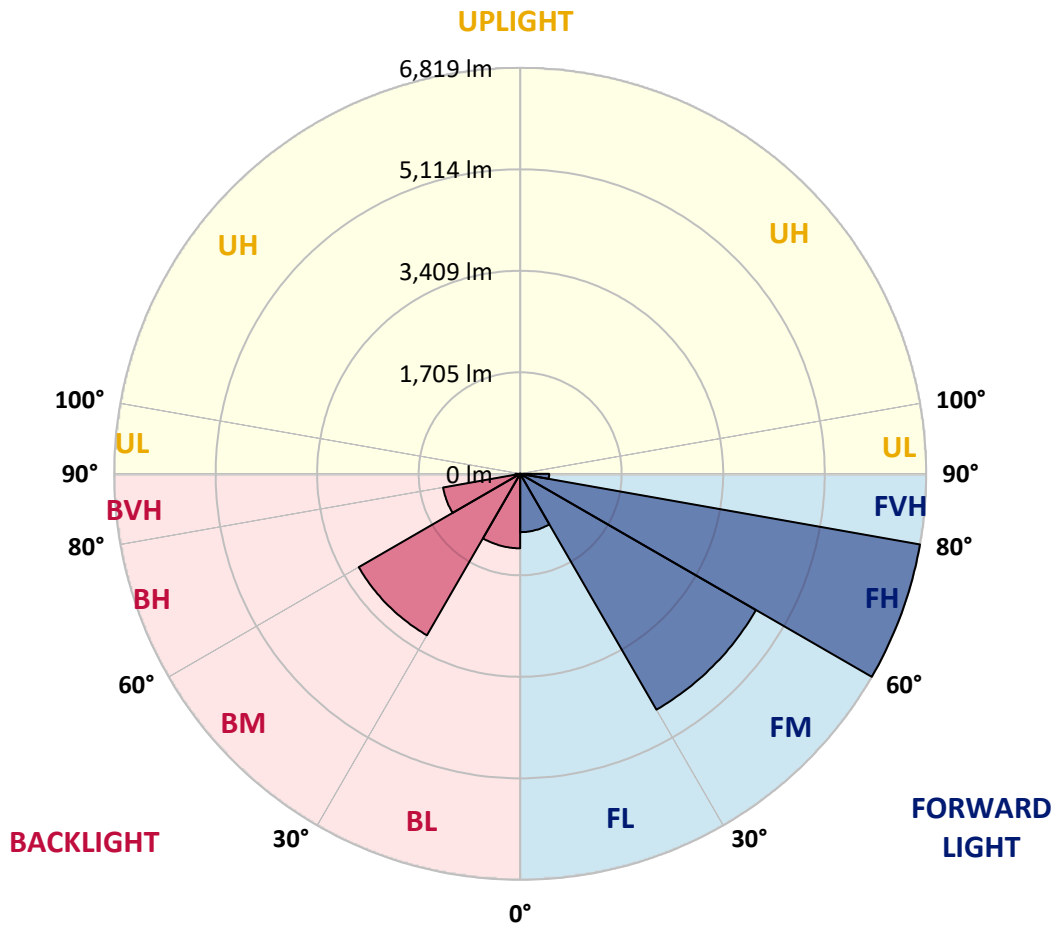
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.0	5.3			
FM (30°-60°)	4573.5	24.5			
FH (60°-80°)	6818.7	36.6			G3/7500
FVH (80°-90°)	486.3	2.6			G3/500
BL (0°-30°)	1250.4	6.7	B3/2500		
BM (30°-60°)	3131.1	16.8	B3/5000		
BH (60°-80°)	1313.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	77.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5
2.5°	2097.9	2109.7	2106.8	2102.8	2102.8	2103.8	2102.8	2109.7	2116.6	2123.6	2134.4
5°	2119.6	2131.5	2125.5	2120.6	2116.6	2115.7	2112.7	2111.7	2115.7	2124.6	2139.4
7.5°	2162.1	2174.0	2165.1	2156.2	2148.3	2144.3	2140.4	2134.4	2131.5	2136.4	2157.2
10°	2209.5	2221.4	2210.5	2194.7	2181.9	2176.9	2173.0	2167.0	2163.1	2166.1	2188.8
12.5°	2257.0	2268.8	2254.0	2232.3	2215.5	2212.5	2207.6	2205.6	2204.6	2203.6	2226.3
15°	2301.4	2311.3	2292.5	2266.8	2249.1	2244.1	2239.2	2242.1	2247.1	2253.0	2278.7
17.5°	2336.0	2345.9	2318.2	2284.6	2267.8	2265.9	2262.9	2272.8	2286.6	2301.4	2333.1
20°	2367.6	2377.5	2341.9	2296.5	2276.7	2276.7	2277.7	2298.5	2318.2	2340.0	2383.4
22.5°	2412.1	2420.0	2376.5	2314.3	2285.6	2287.6	2295.5	2316.3	2341.0	2370.6	2430.9
25°	2478.3	2484.2	2430.9	2347.9	2315.3	2321.2	2328.1	2338.0	2361.7	2396.3	2477.3
27.5°	2585.0	2590.0	2519.8	2407.2	2357.8	2367.6	2377.5	2370.6	2381.5	2411.1	2514.9
30°	2735.2	2738.2	2649.3	2500.1	2429.9	2434.8	2436.8	2408.2	2387.4	2411.1	2541.6
32.5°	2913.1	2912.1	2806.4	2612.7	2511.9	2507.0	2490.2	2433.8	2385.4	2406.2	2565.3
35°	3188.8	3177.9	3041.6	2770.8	2604.8	2574.2	2534.6	2462.5	2395.3	2401.2	2586.0
37.5°	3645.3	3611.7	3423.0	3029.7	2743.1	2665.1	2606.8	2508.9	2417.0	2399.3	2610.7
40°	4160.2	4117.7	3910.2	3384.5	2950.7	2825.2	2731.3	2575.2	2452.6	2408.2	2647.3
42.5°	4770.9	4710.6	4487.2	3802.5	3213.5	3031.7	2890.4	2659.1	2505.0	2436.8	2696.7
45°	5520.9	5440.8	5124.6	4273.8	3544.5	3302.4	3113.7	2786.6	2585.0	2492.1	2770.8
47.5°	6278.8	6298.6	5848.9	4813.3	3941.8	3636.4	3393.4	2978.3	2701.6	2581.1	2890.4
50°	7084.1	7098.0	6569.3	5411.2	4392.4	4013.9	3707.6	3192.8	2863.7	2707.6	3069.2
52.5°	7712.6	7714.6	7223.5	6036.7	4861.8	4428.9	4046.5	3437.8	3051.4	2875.6	3307.4
55°	8105.9	8101.0	7682.0	6628.6	5401.3	4864.7	4422.0	3716.5	3280.7	3073.2	3606.8
57.5°	8391.5	8376.7	7998.2	7137.5	5976.4	5379.6	4846.9	4032.7	3551.5	3308.4	4001.1
60°	8500.2	8491.3	8212.6	7577.2	6581.2	5948.7	5337.1	4386.5	3858.8	3586.0	4508.0
62.5°	8541.7	8558.5	8423.1	8003.1	7228.4	6579.2	5875.6	4809.4	4204.6	3900.3	5042.6
65°	8687.9	8718.6	8690.9	8560.5	7959.7	7317.3	6590.1	5312.4	4582.1	4237.2	5600.9
67.5°	8977.5	9008.1	9020.0	9227.5	8853.0	8237.3	7481.4	5938.9	5023.8	4587.1	6020.9
70°	8970.5	8961.7	9171.1	9758.1	9971.6	9511.1	8683.0	6709.6	5550.5	4877.6	6074.2
72.5°	8165.2	8094.0	8589.1	9752.2	10902.4	10841.1	10150.4	7703.7	6005.1	4913.1	5270.9
75°	6125.6	5935.9	6810.4	8788.7	11057.5	11596.1	11083.2	8320.3	5897.4	4341.0	3668.1
77.5°	2619.6	2428.9	3459.6	6506.1	9896.5	10840.1	10227.5	7259.0	4707.6	2870.6	1801.4
80°	685.8	684.8	1045.5	2949.7	6730.4	8005.1	7022.9	4687.8	2689.8	1025.7	497.0
82.5°	283.6	276.7	384.4	1147.3	3288.6	4492.2	3666.1	2091.0	971.4	277.7	165.0
85°	105.7	104.7	186.8	396.3	1160.1	1852.8	1340.9	534.6	242.1	135.4	74.1
87.5°	29.6	28.7	40.5	137.4	282.6	428.9	229.3	87.9	68.2	53.4	21.7
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°	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5
2.5°	2137.4	2142.3	2151.2	2158.1	2167.0	2176.9	2190.8	2199.7	2208.5	2214.5	2210.5
5°	2146.3	2157.2	2179.9	2202.6	2229.3	2254.0	2282.7	2303.4	2320.2	2325.1	2327.1
7.5°	2166.1	2183.8	2222.4	2260.9	2303.4	2343.9	2385.4	2421.0	2449.7	2460.5	2461.5
10°	2200.6	2224.4	2278.7	2333.1	2389.4	2451.6	2505.0	2556.4	2596.9	2613.7	2614.7
12.5°	2244.1	2273.8	2344.9	2420.0	2498.1	2584.0	2653.2	2716.5	2766.9	2789.6	2789.6
15°	2300.4	2339.0	2429.9	2530.7	2645.3	2764.9	2852.8	2923.0	2979.3	3007.0	3005.0
17.5°	2361.7	2413.1	2527.7	2679.9	2843.9	3001.1	3103.8	3155.2	3213.5	3240.2	3239.2
20°	2421.0	2484.2	2648.3	2869.6	3088.0	3255.0	3338.0	3351.8	3355.8	3358.8	3366.7
22.5°	2482.3	2567.2	2799.5	3108.8	3343.0	3458.6	3470.4	3411.1	3328.1	3289.6	3300.5
25°	2549.5	2662.1	2997.1	3372.6	3562.3	3576.2	3485.3	3341.0	3183.9	3111.7	3122.6
27.5°	2614.7	2771.8	3234.3	3624.6	3720.4	3598.9	3403.2	3198.7	3009.0	2932.9	2941.8
30°	2679.9	2897.3	3496.1	3844.9	3792.6	3542.6	3273.8	3045.5	2854.8	2774.8	2783.7
32.5°	2746.1	3043.5	3797.5	4004.0	3779.7	3423.0	3112.7	2873.6	2705.6	2621.6	2632.5
35°	2821.2	3223.4	4083.1	4091.0	3693.8	3247.1	2900.3	2668.0	2521.8	2454.6	2469.4
37.5°	2919.0	3451.7	4335.1	4112.7	3543.6	2989.2	2636.4	2425.0	2304.4	2273.8	2295.5
40°	3040.6	3726.4	4527.8	4078.1	3321.2	2675.9	2347.9	2178.9	2110.7	2117.6	2141.3
42.5°	3198.7	4033.7	4663.1	3989.2	3011.9	2352.8	2094.9	2019.8	2052.4	2080.1	2105.8
45°	3404.2	4352.9	4747.1	3838.0	2662.1	2079.1	1945.7	1963.5	1988.2	1991.1	2010.9
47.5°	3667.1	4676.0	4802.5	3609.8	2305.4	1886.4	1850.8	1854.8	1849.8	1829.1	1844.9
50°	3995.1	4990.2	4851.9	3307.4	2002.0	1765.8	1718.4	1704.6	1636.4	1569.2	1578.1
52.5°	4368.7	5278.8	4872.6	2931.9	1765.8	1665.1	1588.0	1501.0	1373.5	1352.8	1359.7
55°	4783.7	5545.6	4819.3	2470.4	1567.2	1535.6	1419.0	1314.3	1300.4	1282.6	1285.6
57.5°	5279.8	5833.1	4710.6	1955.6	1363.7	1384.4	1270.8	1282.6	1257.9	1230.3	1225.3
60°	5822.3	6130.6	4519.9	1486.2	1153.2	1195.7	1232.2	1231.3	1224.3	1201.6	1193.7
62.5°	6310.4	6326.2	4144.4	1138.4	968.4	1049.4	1149.2	1148.2	1142.3	1129.5	1124.5
65°	6600.9	6296.6	3517.9	896.3	816.2	928.9	1036.6	1044.5	1045.5	1044.5	1044.5
67.5°	6549.5	5949.7	2658.2	713.5	690.7	806.3	924.9	935.8	943.7	945.7	947.6
70°	5968.5	5187.9	1733.2	569.2	579.1	698.6	819.2	830.1	837.0	844.9	848.8
72.5°	4652.3	3814.3	992.1	460.5	481.2	605.7	714.4	727.3	731.2	746.1	752.0
75°	2835.0	2243.1	535.6	362.7	395.3	517.8	610.7	625.5	632.4	650.2	652.2
77.5°	1347.9	971.4	305.3	282.6	318.2	422.9	515.8	532.6	513.8	523.7	515.8
80°	455.5	360.7	192.7	215.4	243.1	330.0	413.1	429.9	390.3	388.3	384.4
82.5°	159.1	146.2	122.5	143.3	157.1	236.2	312.3	334.0	290.5	289.5	275.7
85°	62.3	59.3	68.2	78.1	93.9	145.3	205.5	216.4	178.9	144.3	142.3
87.5°	12.8	13.8	16.8	17.8	28.7	50.4	74.1	90.9	72.1	61.3	56.3
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)