

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: P883321

Luminaire Tested: **NAV-SB3C-835-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883321  
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-835-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

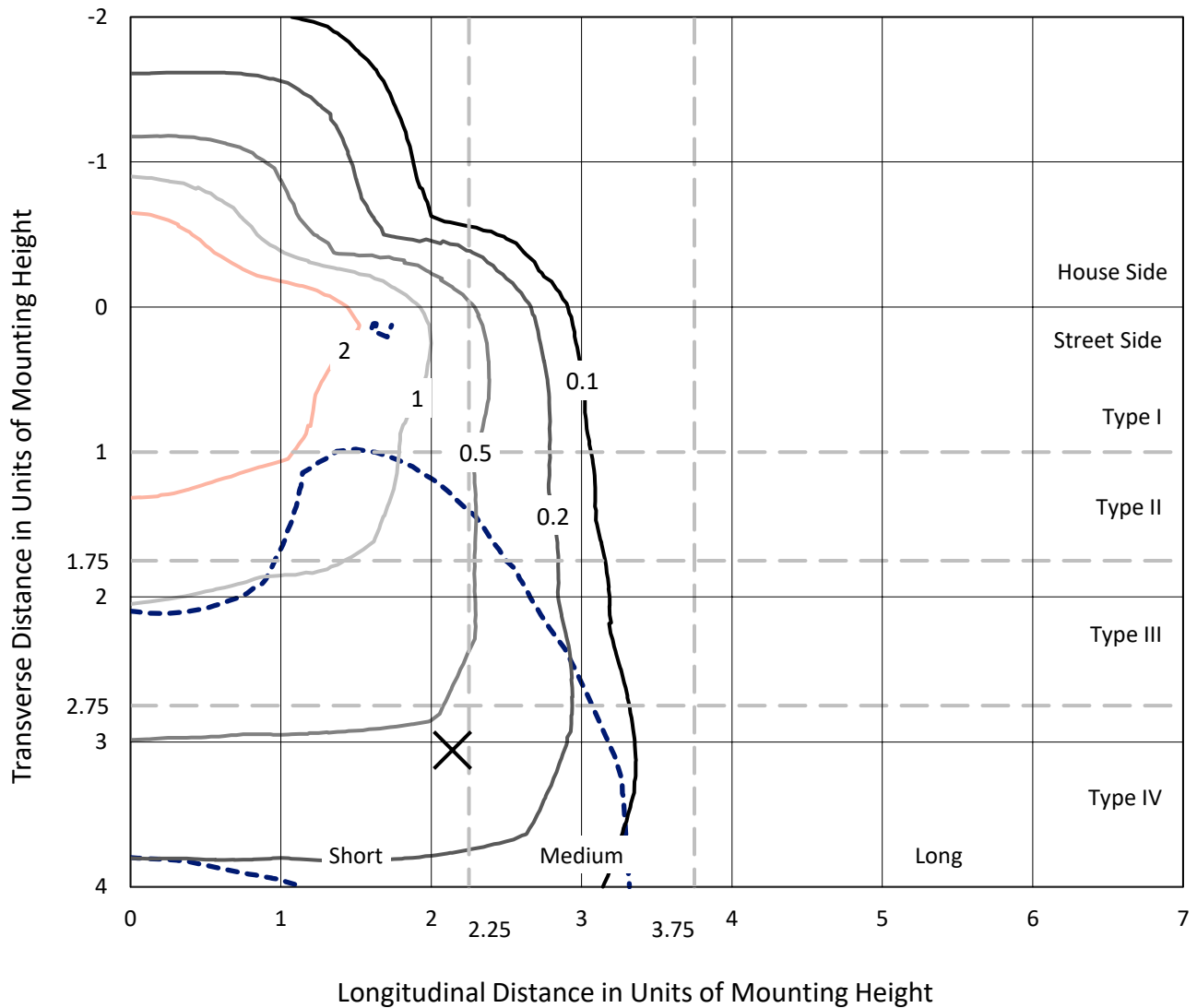
Lumens per Lamp: N/A  
Luminaire Lumens: 18733 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 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

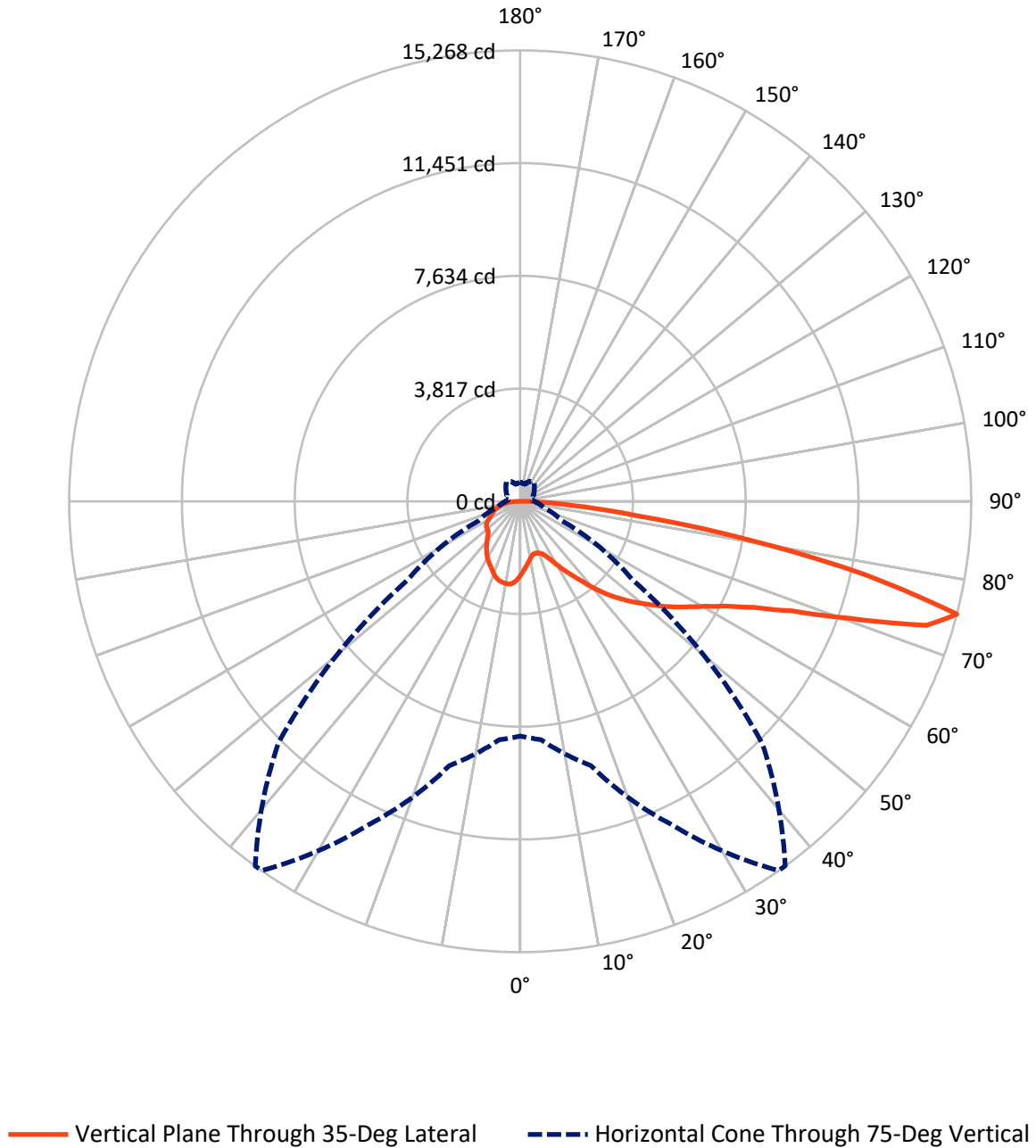
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4458.0	0.0	4458.0
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	14275.0	0.0	14275.0
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	18733.0	0.0	18733.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.3	1.3
10°-20°	681.7	3.6
20°-30°	1144.8	6.1
30°-40°	1779.2	9.5
40°-50°	2640.8	14.1
50°-60°	3645.8	19.5
60°-70°	4423.2	23.6
70°-80°	3655.4	19.5
80°-90°	525.8	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°	18733.0	100.0
0°-180°	18733.0	100.0

**Coefficient of Utilization**



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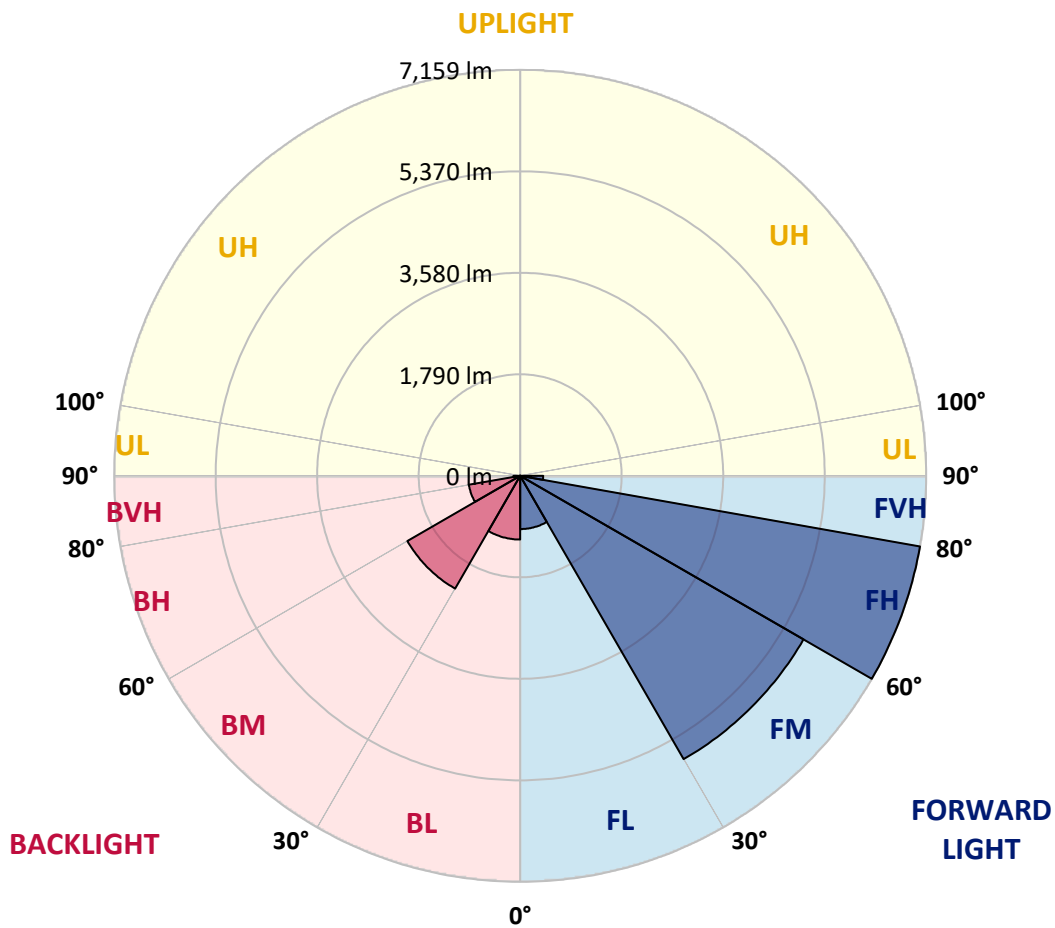
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	939.4	5.0			
FM (30°-60°)	5768.8	30.8			
FH (60°-80°)	7159.5	38.2			G3/7500
FVH (80°-90°)	407.4	2.2			G3/500
BL (0°-30°)	1123.5	6.0	B3/2500		
BM (30°-60°)	2297.0	12.3	B2/2500		
BH (60°-80°)	919.1	4.9	B2/1000		G2/1000
BVH (80°-90°)	118.4	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3
2.5°	2301.9	2316.0	2322.1	2319.1	2334.3	2332.2	2353.5	2379.8	2416.3	2451.7	2503.4
5°	2124.6	2139.8	2153.0	2165.1	2194.5	2203.6	2237.0	2287.7	2354.5	2422.4	2507.4
7.5°	1959.6	1972.7	1993.0	2015.3	2064.9	2074.0	2129.7	2208.7	2301.9	2401.1	2518.6
10°	1824.9	1838.0	1859.3	1884.6	1946.4	1957.5	2028.4	2133.8	2255.3	2380.9	2530.7
12.5°	1767.2	1771.2	1783.4	1808.7	1862.4	1869.4	1947.4	2067.9	2209.7	2365.7	2549.0
15°	1764.1	1772.2	1773.2	1786.4	1831.0	1834.0	1905.9	2025.4	2181.4	2362.6	2576.3
17.5°	1794.5	1800.6	1791.5	1799.6	1837.0	1842.1	1898.8	2005.1	2172.2	2375.8	2622.9
20°	1875.5	1880.6	1853.2	1842.1	1869.4	1873.5	1929.2	2018.3	2181.4	2403.1	2686.7
22.5°	2047.7	2050.7	1983.9	1938.3	1940.3	1942.4	1991.0	2072.0	2216.8	2452.8	2767.7
25°	2316.0	2314.0	2207.7	2119.6	2068.9	2057.8	2090.2	2159.1	2276.5	2518.6	2872.0
27.5°	2630.0	2614.8	2508.5	2376.8	2266.4	2250.2	2243.1	2272.5	2361.6	2605.7	2999.6
30°	2984.4	2970.2	2855.8	2683.6	2530.7	2504.4	2437.6	2422.4	2488.2	2724.2	3176.8
32.5°	3373.3	3364.2	3227.5	3018.9	2814.3	2783.9	2671.5	2631.0	2682.6	2903.4	3423.9
35°	3699.4	3691.3	3577.9	3363.2	3113.0	3075.6	2961.1	2915.6	2941.9	3133.3	3747.0
37.5°	3994.1	3990.0	3892.8	3723.7	3465.5	3419.9	3291.3	3276.1	3271.0	3436.1	4138.9
40°	4267.5	4257.4	4156.1	4067.0	3875.6	3834.1	3720.7	3707.5	3669.0	3808.8	4582.5
42.5°	4570.3	4544.0	4397.1	4355.6	4304.0	4269.5	4201.7	4203.7	4118.6	4229.0	5052.3
45°	4817.4	4802.2	4651.3	4627.0	4682.7	4668.5	4727.3	4742.5	4577.4	4669.5	5540.5
47.5°	5082.7	5068.6	4941.0	4923.7	5074.6	5078.7	5286.3	5291.3	5025.0	5127.3	6029.6
50°	5409.8	5389.6	5263.0	5284.3	5453.4	5468.6	5848.3	5813.9	5437.2	5592.1	6514.7
52.5°	5625.5	5637.7	5610.3	5644.8	5875.7	5889.8	6401.3	6313.2	5845.3	6050.9	6990.6
55°	5784.5	5808.8	5893.9	5972.9	6321.3	6335.4	6922.8	6788.1	6183.5	6476.2	7438.3
57.5°	5989.1	5954.7	6113.7	6267.6	6744.6	6782.0	7430.2	7245.8	6483.3	6842.8	7745.1
60°	6282.8	6258.5	6382.0	6609.9	7218.5	7278.3	7966.9	7658.0	6703.0	7133.4	7804.9
62.5°	6878.2	6817.5	6836.7	7038.2	7816.0	7895.0	8572.5	8017.5	6812.4	7246.9	7484.8
65°	7768.4	7664.1	7566.9	7706.6	8657.5	8735.5	9256.1	8300.1	6771.9	7027.1	6635.2
67.5°	8889.5	8786.2	8666.7	8798.3	9897.1	9958.9	10099.6	8459.1	6452.9	6180.5	5133.4
70°	9814.1	9775.6	9918.4	10460.2	11876.9	11878.9	11181.2	8327.4	5578.9	4381.9	2970.2
72.5°	9691.5	9668.2	10420.7	12095.7	14372.2	14318.5	12205.0	7330.9	3758.1	1976.8	1113.0
75°	7950.7	8101.6	9267.2	12066.3	15268.4	15261.3	11578.2	4660.4	1554.5	819.3	575.2
77.5°	4263.5	4502.5	6016.4	8908.7	11919.4	12098.7	8140.1	1630.4	667.4	524.6	398.0
80°	1390.4	1599.0	2398.1	4535.9	7745.1	7711.7	3488.7	640.0	456.7	371.7	275.5
82.5°	590.4	614.7	1071.4	2141.9	3974.8	3913.1	1110.9	367.6	321.0	254.2	170.1
85°	230.9	258.2	472.9	990.4	1721.6	1684.1	401.0	182.3	205.6	166.1	101.3
87.5°	76.0	92.2	169.1	339.3	535.7	516.5	98.2	62.8	89.1	76.0	36.5
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°	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3
2.5°	2517.6	2533.8	2553.0	2581.4	2605.7	2625.9	2647.2	2660.4	2665.4	2680.6	2679.6
5°	2535.8	2571.2	2618.8	2665.4	2711.0	2738.3	2762.6	2774.8	2785.9	2794.0	2796.1
7.5°	2566.2	2611.7	2686.7	2747.4	2785.9	2808.2	2824.4	2820.4	2824.4	2826.4	2829.5
10°	2592.5	2656.3	2745.4	2803.1	2832.5	2833.5	2829.5	2815.3	2808.2	2809.2	2811.2
12.5°	2623.9	2694.8	2791.0	2839.6	2847.7	2825.4	2808.2	2783.9	2774.8	2770.7	2768.7
15°	2666.4	2747.4	2840.6	2858.8	2838.6	2810.2	2780.9	2741.4	2721.1	2704.9	2710.0
17.5°	2718.1	2807.2	2879.1	2865.9	2822.4	2775.8	2728.2	2668.5	2626.9	2609.7	2610.7
20°	2790.0	2870.0	2908.5	2850.7	2784.9	2714.0	2633.0	2560.1	2521.6	2504.4	2502.4
22.5°	2877.1	2954.0	2936.8	2824.4	2731.2	2617.8	2516.6	2462.9	2443.6	2431.5	2433.5
25°	2981.4	3047.2	2957.1	2785.9	2643.1	2490.2	2412.2	2395.0	2385.9	2376.8	2376.8
27.5°	3117.1	3152.5	2972.3	2729.2	2505.4	2354.5	2326.2	2329.2	2326.2	2311.0	2314.0
30°	3296.3	3289.2	2986.4	2637.1	2347.4	2232.0	2234.0	2247.2	2249.2	2239.1	2244.1
32.5°	3532.3	3460.4	2993.5	2517.6	2196.5	2124.6	2126.7	2140.8	2151.0	2133.8	2141.9
35°	3817.9	3659.9	2982.4	2367.7	2080.1	2022.4	2007.2	2011.2	2014.3	1998.1	2009.2
37.5°	4151.0	3883.7	2932.8	2201.6	1983.9	1922.1	1889.7	1862.4	1846.1	1831.0	1841.1
40°	4516.6	4127.8	2841.6	2039.6	1876.5	1815.8	1767.2	1715.5	1660.8	1640.6	1649.7
42.5°	4899.4	4378.9	2731.2	1884.6	1753.0	1703.4	1651.7	1576.8	1494.7	1453.2	1458.3
45°	5296.4	4636.1	2622.9	1731.7	1626.4	1605.1	1545.4	1455.2	1366.1	1313.5	1309.4
47.5°	5685.3	4879.2	2463.9	1577.8	1507.9	1531.2	1484.6	1401.6	1302.3	1219.3	1210.2
50°	6056.9	5107.0	2203.6	1421.8	1411.7	1508.9	1464.4	1344.9	1231.4	1125.1	1116.0
52.5°	6425.6	5291.3	1870.5	1280.0	1360.1	1502.8	1438.0	1306.4	1167.6	1056.2	1044.1
55°	6738.5	5386.5	1549.4	1158.5	1285.1	1451.2	1406.6	1260.8	1077.5	959.0	948.9
57.5°	6916.7	5309.6	1282.1	1039.0	1181.8	1366.1	1353.0	1163.6	970.2	879.0	866.9
60°	6839.8	4997.7	1063.3	934.7	1083.6	1274.0	1259.8	1067.4	888.1	802.1	789.9
62.5°	6415.4	4403.2	890.2	843.6	994.5	1179.8	1166.6	993.5	825.3	742.3	729.1
65°	5560.7	3581.9	755.5	767.6	904.3	1066.4	1085.6	931.7	775.7	694.7	681.5
67.5°	4241.2	2594.5	650.2	701.8	816.2	955.0	1010.7	887.1	734.2	657.2	645.1
70°	2417.3	1473.5	561.0	638.0	738.3	851.7	952.9	851.7	689.6	625.8	617.7
72.5°	916.5	676.5	485.1	574.2	663.3	764.6	889.1	796.0	638.0	590.4	582.3
75°	489.1	412.2	408.1	499.3	577.2	679.5	809.1	741.3	599.5	623.8	644.1
77.5°	333.2	291.7	341.3	427.4	483.1	585.3	724.1	658.3	519.5	517.5	477.0
80°	230.9	206.6	277.5	344.3	373.7	492.2	631.9	565.1	423.3	395.0	377.7
82.5°	138.7	134.7	207.6	257.2	264.3	379.8	523.6	473.9	346.3	301.8	303.8
85°	76.0	80.0	132.7	150.9	153.9	265.3	410.1	366.6	266.3	223.8	225.8
87.5°	21.3	27.3	48.6	59.7	73.9	137.7	244.1	217.7	133.7	93.2	93.2
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)