

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: P964764

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
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: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21114 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



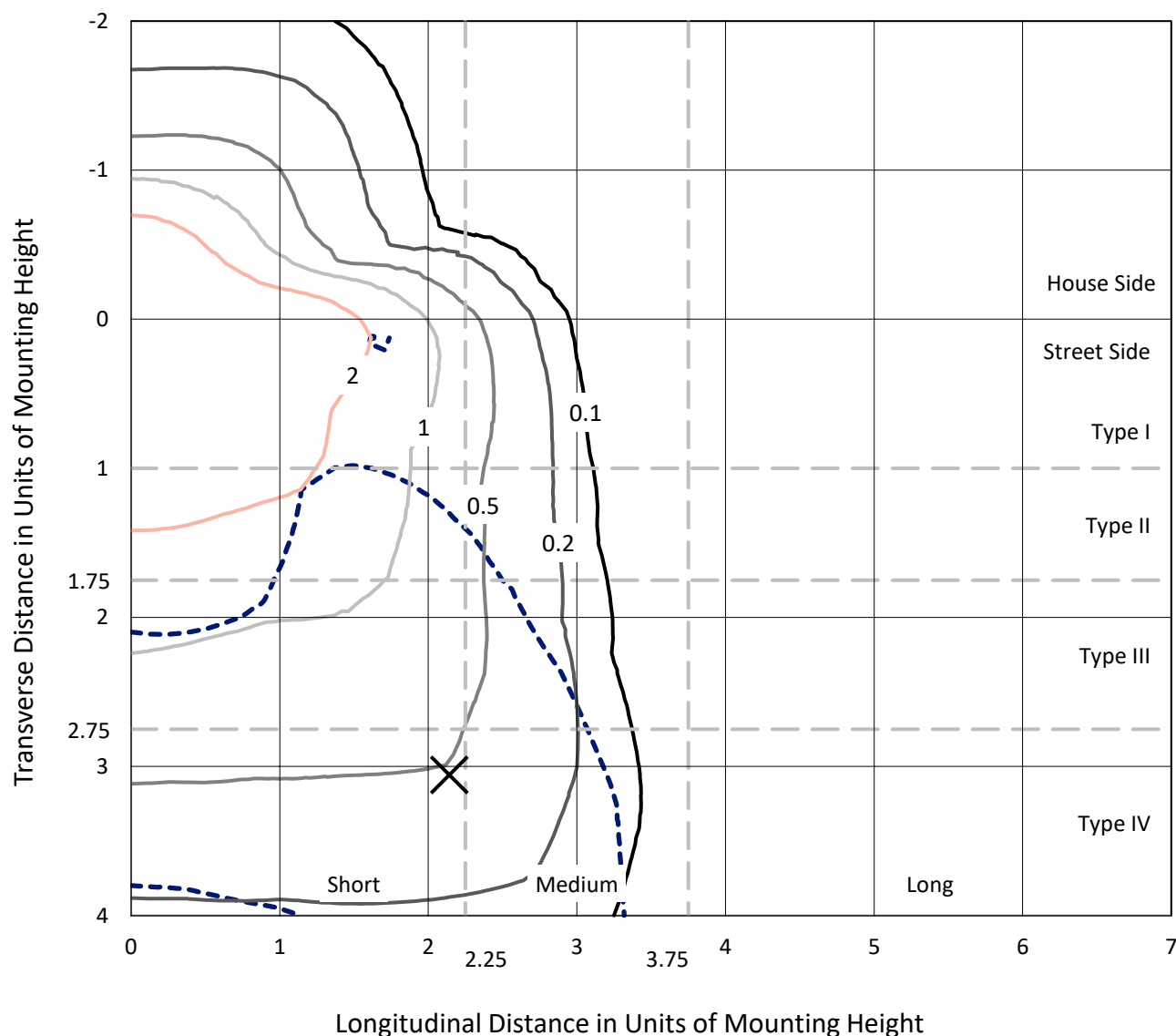
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

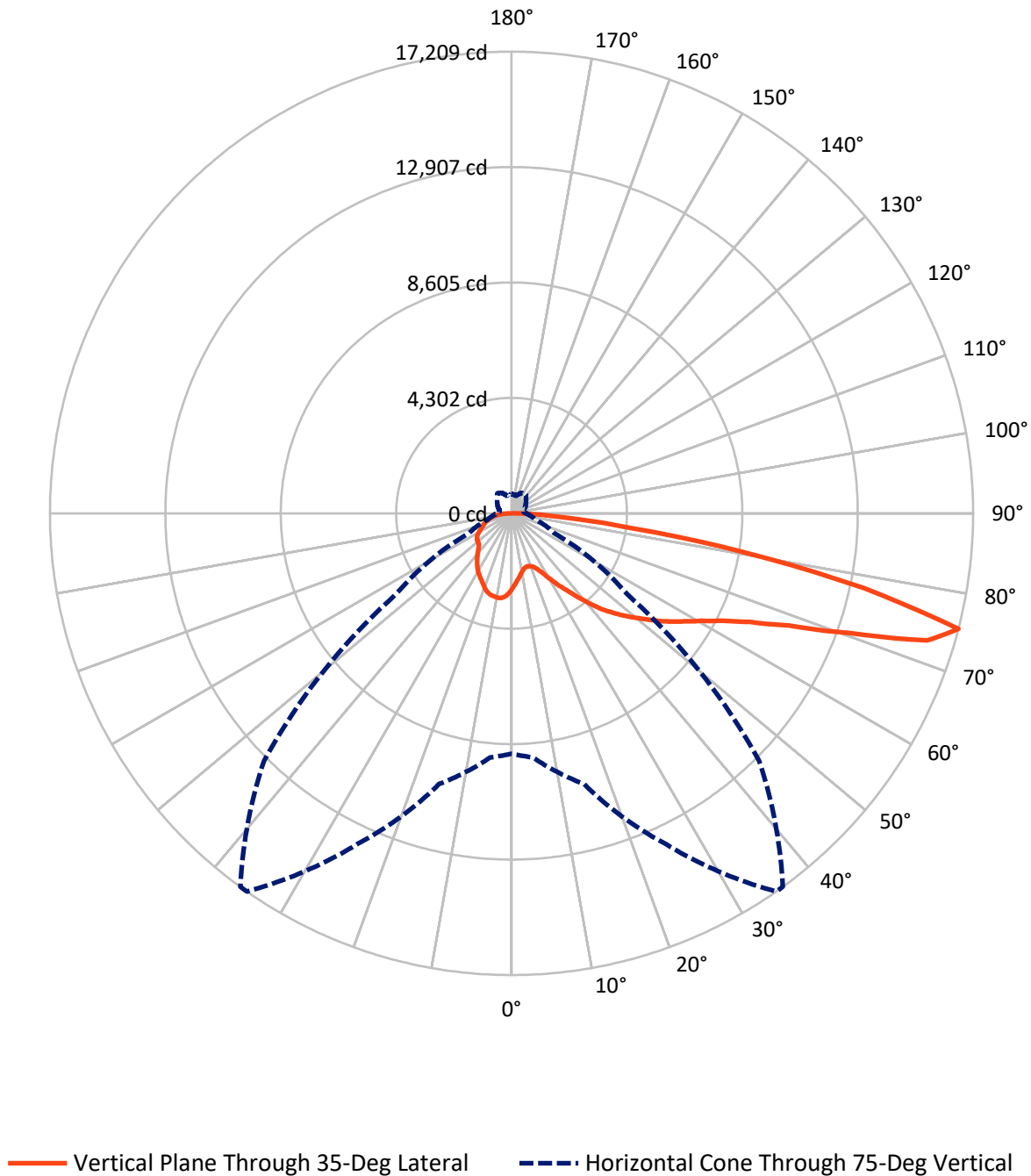


Based on 25 foot mounting height. Maximum calculated value = 5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5024.6	0.0	5024.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	16089.4	0.0	16089.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	21114.0	0.0	21114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.4	1.3
10°-20°	768.4	3.6
20°-30°	1290.3	6.1
30°-40°	2005.3	9.5
40°-50°	2976.4	14.1
50°-60°	4109.2	19.5
60°-70°	4985.3	23.6
70°-80°	4120.0	19.5
80°-90°	592.6	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°	21114.0	100.0
0°-180°	21114.0	100.0

Coefficient of Utilization



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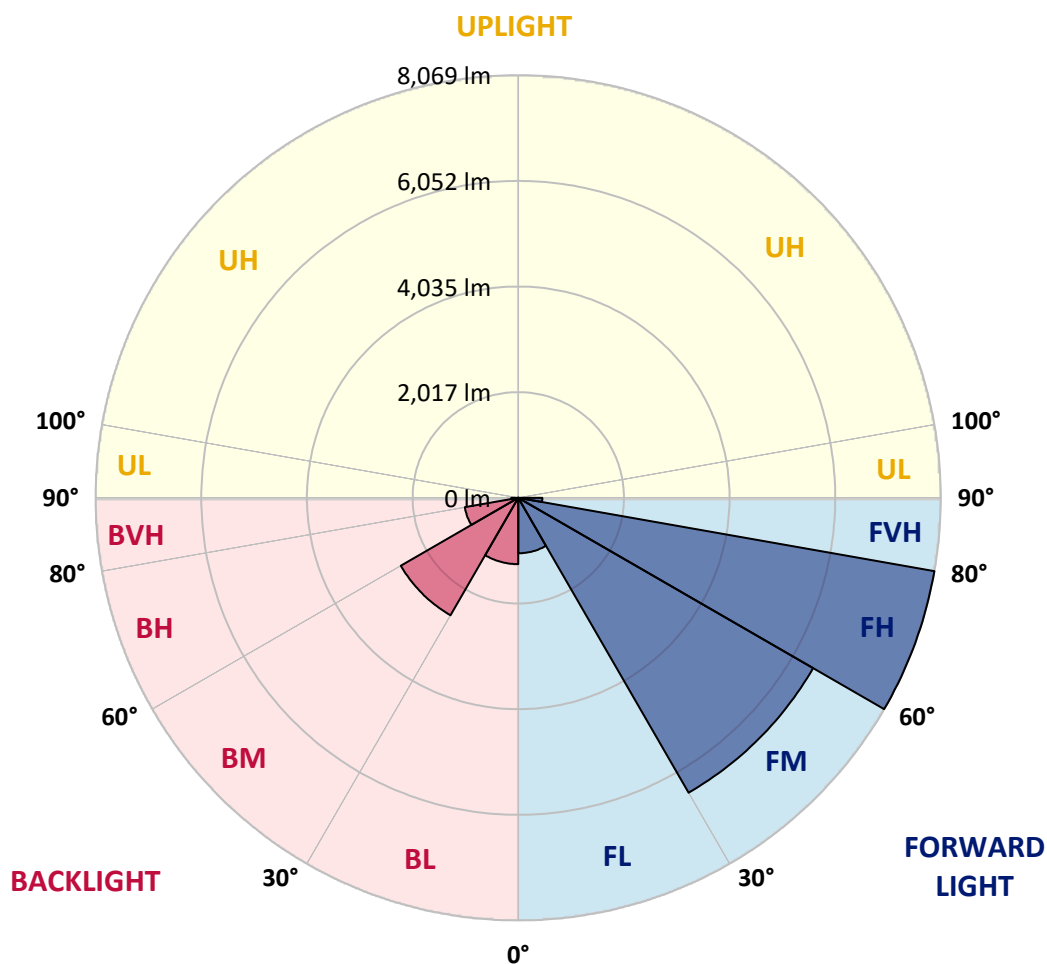
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1058.8	5.0			
FM	(30°-60°)	6502.0	30.8			
FH	(60°-80°)	8069.4	38.2			G4/12000
FVH	(80°-90°)	459.1	2.2			G3/500
BL	(0°-30°)	1266.3	6.0	B3/2500		
BM	(30°-60°)	2589.0	12.3	B3/5000		
BH	(60°-80°)	1035.9	4.9	B3/2500		G3/2500
BVH	(80°-90°)	133.4	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2813.6	2813.6	2813.6	2813.6	2813.6	2813.6	2813.6	2813.6	2813.6	2813.6	2813.6
2.5°	2594.5	2610.4	2617.2	2613.9	2631.0	2628.7	2652.6	2682.3	2723.4	2763.4	2821.6
5°	2394.7	2411.8	2426.7	2440.3	2473.4	2483.7	2521.4	2578.5	2653.8	2730.3	2826.1
7.5°	2208.7	2223.4	2246.3	2271.4	2327.4	2337.6	2400.3	2489.4	2594.5	2706.3	2838.7
10°	2056.9	2071.6	2095.6	2124.2	2193.8	2206.3	2286.3	2405.0	2541.9	2683.4	2852.4
12.5°	1991.8	1996.3	2010.0	2038.5	2099.1	2107.1	2194.9	2330.7	2490.5	2666.3	2873.0
15°	1988.3	1997.5	1998.6	2013.4	2063.6	2067.1	2148.1	2282.8	2458.6	2663.0	2903.7
17.5°	2022.6	2029.4	2019.1	2028.3	2070.5	2076.2	2140.1	2260.0	2448.3	2677.7	2956.3
20°	2113.9	2119.6	2088.7	2076.2	2107.1	2111.6	2174.4	2274.8	2458.6	2708.6	3028.2
22.5°	2307.9	2311.4	2236.0	2184.7	2186.9	2189.2	2244.0	2335.4	2498.5	2764.5	3119.5
25°	2610.4	2608.1	2488.3	2389.0	2331.9	2319.4	2355.9	2433.5	2565.9	2838.7	3237.1
27.5°	2964.2	2947.1	2827.3	2678.9	2554.5	2536.3	2528.3	2561.4	2661.8	2936.8	3380.9
30°	3363.7	3347.8	3218.8	3024.8	2852.4	2822.7	2747.4	2730.3	2804.4	3070.4	3580.6
32.5°	3802.0	3791.8	3637.7	3402.6	3172.0	3137.7	3011.0	2965.4	3023.6	3272.4	3859.1
35°	4169.6	4160.5	4032.7	3790.7	3508.7	3466.4	3337.5	3286.2	3315.8	3531.5	4223.2
37.5°	4501.7	4497.2	4387.6	4197.0	3905.9	3854.5	3709.6	3692.5	3686.7	3872.9	4665.0
40°	4809.9	4798.5	4684.4	4583.9	4368.1	4321.4	4193.6	4178.7	4135.4	4292.8	5164.9
42.5°	5151.2	5121.5	4956.0	4909.2	4851.0	4812.2	4735.7	4738.0	4642.1	4766.6	5694.5
45°	5429.7	5412.6	5242.5	5215.1	5277.9	5261.9	5328.2	5345.3	5159.1	5263.1	6244.7
47.5°	5728.7	5712.7	5568.9	5549.6	5719.6	5724.2	5958.1	5963.9	5663.6	5779.0	6796.0
50°	6097.4	6074.6	5931.9	5955.9	6146.5	6163.6	6591.7	6552.8	6128.3	6302.8	7342.7
52.5°	6340.5	6354.3	6323.4	6362.3	6622.4	6638.4	7214.9	7115.6	6588.2	6819.9	7879.2
55°	6519.7	6547.2	6643.0	6732.1	7124.7	7140.7	7802.7	7650.9	6969.5	7299.3	8383.7
57.5°	6750.3	6711.5	6890.7	7064.2	7601.8	7644.0	8374.6	8166.8	7307.3	7712.5	8729.5
60°	7081.3	7053.9	7193.1	7450.0	8135.9	8203.3	8979.5	8631.3	7555.0	8040.1	8796.9
62.5°	7752.5	7684.0	7705.6	7932.8	8809.5	8898.4	9662.1	9036.6	7678.3	8167.9	8436.2
65°	8755.8	8638.2	8528.6	8686.2	9757.9	9845.8	10432.6	9355.0	7632.7	7920.3	7478.5
67.5°	10019.3	9902.9	9768.2	9916.6	11155.0	11224.7	11383.3	9534.2	7273.1	6966.0	5785.8
70°	11061.4	11018.0	11179.0	11789.7	13386.5	13388.8	12602.4	9385.8	6288.1	4938.9	3347.8
72.5°	10923.3	10897.1	11745.2	13633.0	16198.9	16138.4	13756.3	8262.7	4235.8	2228.0	1254.4
75°	8961.3	9131.3	10445.1	13599.9	17209.0	17201.0	13049.8	5252.8	1752.0	923.4	648.3
77.5°	4805.3	5074.7	6781.1	10041.0	13434.4	13636.5	9174.7	1837.7	752.1	591.2	448.5
80°	1567.1	1802.3	2702.8	5112.4	8729.5	8691.9	3932.2	721.4	514.8	418.9	310.5
82.5°	665.4	692.8	1207.7	2414.1	4480.1	4410.4	1252.1	414.3	361.8	286.5	191.8
85°	260.2	291.1	533.0	1116.3	1940.4	1898.2	452.0	205.4	231.8	187.2	114.2
87.5°	85.6	103.8	190.6	382.3	603.8	582.1	110.7	70.7	100.4	85.6	41.1
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°	2813.6	2813.6	2813.6	2813.6	2813.6	2813.6	2813.6	2813.6	2813.6	2813.6	2813.6
2.5°	2837.5	2855.9	2877.5	2909.5	2936.8	2959.7	2983.7	2998.5	3004.2	3021.3	3020.2
5°	2858.1	2898.1	2951.7	3004.2	3055.5	3086.4	3113.7	3127.5	3140.0	3149.1	3151.5
7.5°	2892.3	2943.7	3028.2	3096.6	3140.0	3165.1	3183.4	3178.8	3183.4	3185.7	3189.1
10°	2922.0	2993.9	3094.4	3159.5	3192.6	3193.7	3189.1	3173.1	3165.1	3166.2	3168.6
12.5°	2957.4	3037.3	3145.7	3200.6	3209.7	3184.6	3165.1	3137.7	3127.5	3122.9	3120.6
15°	3005.3	3096.6	3201.7	3222.2	3199.3	3167.5	3134.3	3089.8	3067.0	3048.8	3054.4
17.5°	3063.5	3164.0	3245.0	3230.2	3181.1	3128.6	3075.0	3007.7	2960.8	2941.4	2942.6
20°	3144.6	3234.8	3278.2	3213.1	3138.9	3059.0	2967.7	2885.5	2842.1	2822.7	2820.4
22.5°	3242.8	3329.5	3310.1	3183.4	3078.4	2950.6	2836.4	2775.9	2754.3	2740.5	2742.8
25°	3360.4	3434.5	3332.9	3140.0	2979.1	2806.8	2718.8	2699.4	2689.2	2678.9	2678.9
27.5°	3513.3	3553.3	3350.0	3076.1	2823.9	2653.8	2621.8	2625.2	2621.8	2604.7	2608.1
30°	3715.3	3707.3	3366.0	2972.2	2645.8	2515.7	2517.9	2532.8	2535.0	2523.7	2529.4
32.5°	3981.2	3900.2	3374.0	2837.5	2475.7	2394.7	2397.0	2413.0	2424.3	2405.0	2414.1
35°	4303.2	4125.1	3361.5	2668.6	2344.5	2279.4	2262.3	2266.9	2270.3	2252.0	2264.5
37.5°	4678.6	4377.4	3305.5	2481.4	2236.0	2166.4	2129.8	2099.1	2080.8	2063.6	2075.1
40°	5090.7	4652.4	3202.8	2298.8	2115.0	2046.5	1991.8	1933.6	1872.0	1849.1	1859.4
42.5°	5522.2	4935.5	3078.4	2124.2	1975.8	1919.8	1861.6	1777.1	1684.7	1637.9	1643.6
45°	5969.6	5225.3	2956.3	1951.8	1833.1	1809.1	1741.8	1640.2	1539.8	1480.4	1475.8
47.5°	6407.9	5499.3	2777.0	1778.3	1699.6	1725.8	1673.3	1579.7	1467.9	1374.2	1364.0
50°	6826.8	5756.1	2483.7	1602.6	1591.1	1700.7	1650.5	1515.8	1388.0	1268.1	1257.9
52.5°	7242.2	5963.9	2108.2	1442.8	1532.9	1693.8	1620.8	1472.4	1316.0	1190.5	1176.8
55°	7594.9	6071.2	1746.4	1305.7	1448.4	1635.6	1585.5	1421.1	1214.4	1081.0	1069.5
57.5°	7795.8	5984.5	1445.0	1171.1	1332.0	1539.8	1524.9	1311.5	1093.5	990.8	977.0
60°	7709.1	5632.9	1198.5	1053.5	1221.3	1435.9	1419.9	1203.0	1001.0	903.9	890.3
62.5°	7230.9	4962.8	1003.3	950.8	1120.8	1329.7	1314.9	1119.7	930.3	836.6	821.8
65°	6267.5	4037.2	851.5	865.2	1019.3	1201.9	1223.5	1050.1	874.3	783.0	768.1
67.5°	4780.2	2924.3	732.8	791.0	919.9	1076.4	1139.1	999.9	827.5	740.8	727.0
70°	2724.6	1660.7	632.3	719.1	832.1	959.9	1074.1	959.9	777.3	705.4	696.3
72.5°	1033.0	762.5	546.7	647.2	747.6	861.7	1002.1	897.2	719.1	665.4	656.3
75°	551.3	464.5	460.0	562.7	650.6	765.9	911.9	835.5	675.7	703.2	725.9
77.5°	375.6	328.7	384.7	481.6	544.5	659.7	816.1	741.9	585.6	583.2	537.6
80°	260.2	232.9	312.7	388.1	421.2	554.7	712.3	636.9	477.1	445.2	425.8
82.5°	156.4	151.8	234.0	289.9	297.9	428.0	590.1	534.2	390.3	340.1	342.5
85°	85.6	90.2	149.5	170.0	173.5	299.1	462.3	413.2	300.2	252.3	254.5
87.5°	24.0	30.9	54.8	67.3	83.3	155.2	275.1	245.4	150.7	105.0	105.0
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)