

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: P883261

Luminaire Tested: **NAV-SB3C-735-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883261
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-735-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 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: 22202 lumens
Efficiency: N/A
Efficacy: 148.9 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

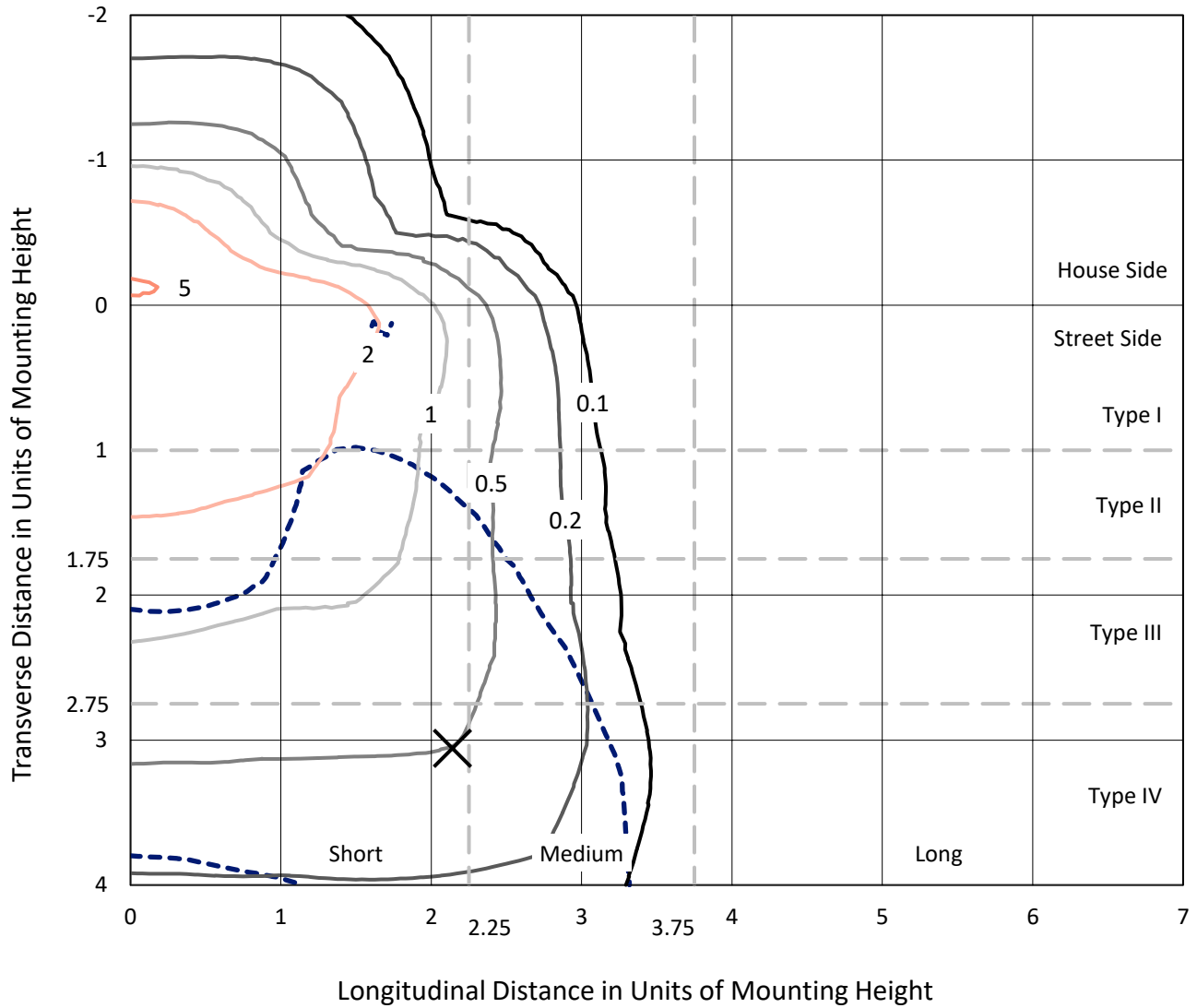
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

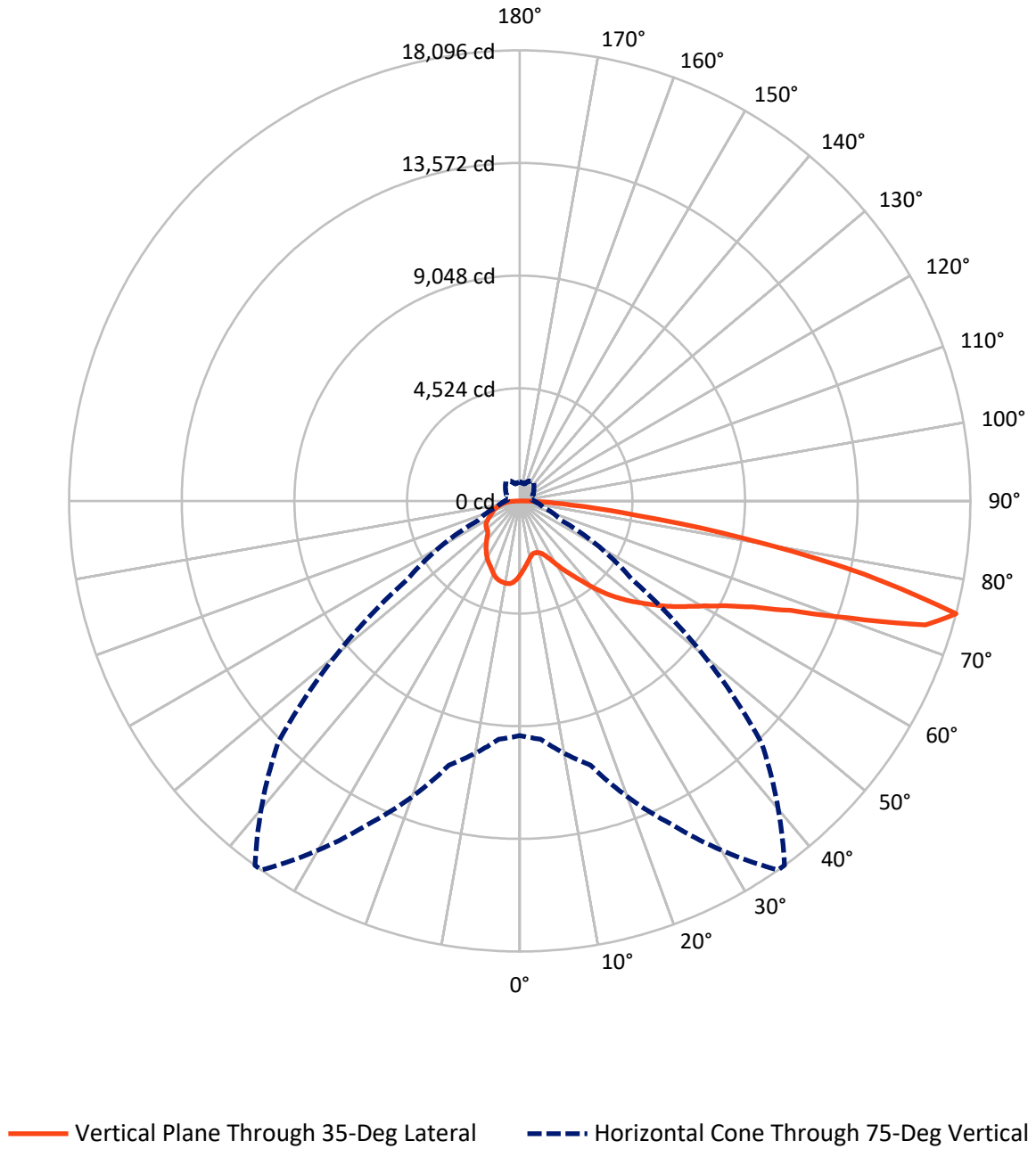
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	5283.5	0.0	5283.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	16918.5	0.0	16918.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	22202.0	0.0	22202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.1	1.3
10°-20°	808.0	3.6
20°-30°	1356.8	6.1
30°-40°	2108.7	9.5
40°-50°	3129.8	14.1
50°-60°	4320.9	19.5
60°-70°	5242.2	23.6
70°-80°	4332.3	19.5
80°-90°	623.1	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°	22202.0	100.0
0°-180°	22202.0	100.0

Coefficient of Utilization



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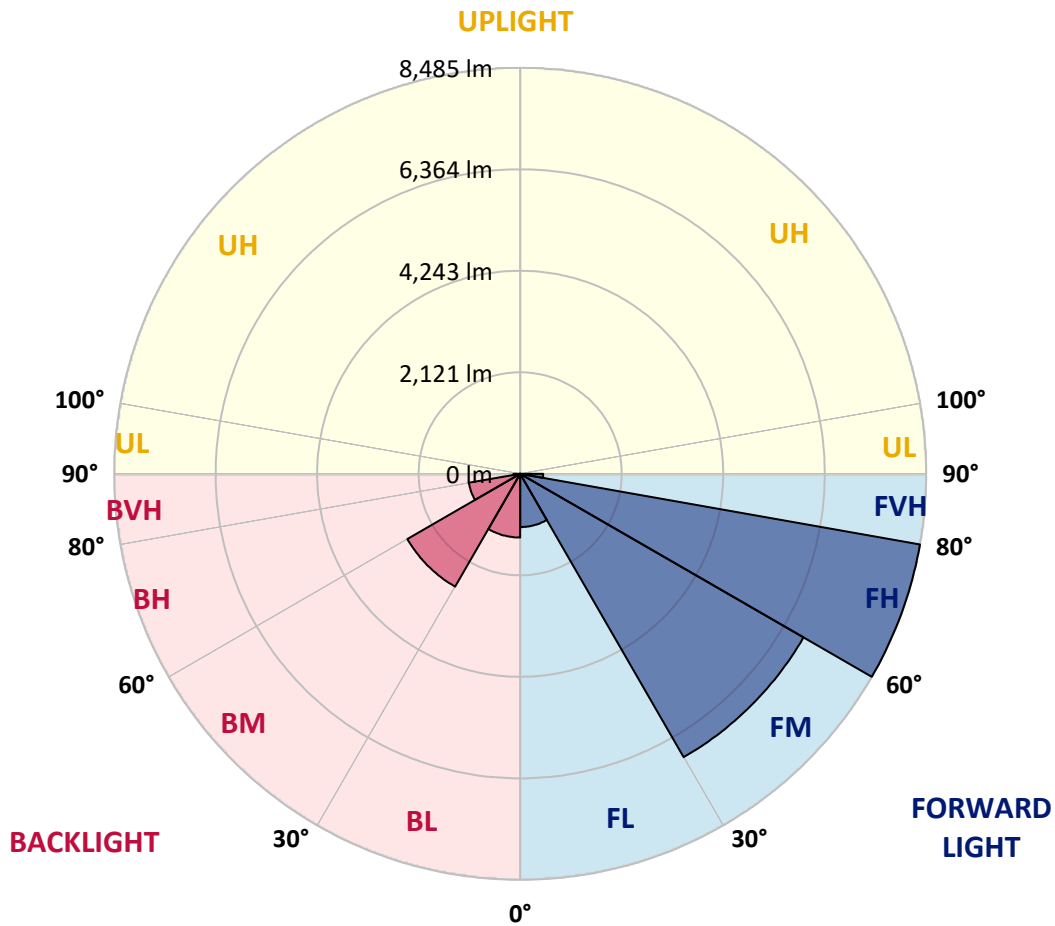
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1113.4	5.0			
FM (30°-60°)	6837.0	30.8			
FH (60°-80°)	8485.3	38.2			G4/12000
FVH (80°-90°)	482.8	2.2			G3/500
BL (0°-30°)	1331.5	6.0	B3/2500		
BM (30°-60°)	2722.4	12.3	B3/5000		
BH (60°-80°)	1089.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	140.3	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°	2958.6	2958.6	2958.6	2958.6	2958.6	2958.6	2958.6	2958.6	2958.6	2958.6	2958.6
2.5°	2728.1	2744.9	2752.1	2748.5	2766.5	2764.1	2789.3	2820.5	2863.7	2905.8	2967.0
5°	2518.1	2536.1	2551.7	2566.1	2600.9	2611.7	2651.3	2711.3	2790.5	2870.9	2971.8
7.5°	2322.4	2338.0	2362.1	2388.5	2447.3	2458.1	2524.1	2617.7	2728.1	2845.7	2985.0
10°	2162.8	2178.4	2203.6	2233.6	2306.8	2320.0	2404.1	2528.9	2672.9	2821.7	2999.4
12.5°	2094.4	2099.2	2113.6	2143.6	2207.2	2215.6	2308.0	2450.9	2618.9	2803.7	3021.0
15°	2090.8	2100.4	2101.6	2117.2	2170.0	2173.6	2258.8	2400.5	2585.3	2800.1	3053.4
17.5°	2126.8	2134.0	2123.2	2132.8	2177.2	2183.2	2250.4	2376.5	2574.5	2815.7	3108.6
20°	2222.8	2228.8	2196.4	2183.2	2215.6	2220.4	2286.4	2392.1	2585.3	2848.1	3184.2
22.5°	2426.9	2430.5	2351.3	2297.2	2299.6	2302.0	2359.7	2455.7	2627.3	2907.0	3280.2
25°	2744.9	2742.5	2616.5	2512.1	2452.1	2438.9	2477.3	2558.9	2698.1	2985.0	3403.9
27.5°	3117.0	3099.0	2973.0	2816.9	2686.1	2666.9	2658.5	2693.3	2798.9	3088.2	3555.1
30°	3537.1	3520.3	3384.6	3180.6	2999.4	2968.2	2889.0	2870.9	2949.0	3228.6	3765.1
32.5°	3998.0	3987.2	3825.1	3577.9	3335.4	3299.4	3166.2	3118.2	3179.4	3441.1	4058.0
35°	4384.4	4374.8	4240.4	3986.0	3689.5	3645.1	3509.5	3455.5	3486.7	3713.5	4440.9
37.5°	4733.7	4728.9	4613.7	4413.2	4107.2	4053.2	3900.7	3882.7	3876.7	4072.4	4905.3
40°	5057.8	5045.8	4925.7	4820.1	4593.3	4544.1	4409.6	4394.0	4348.4	4514.1	5431.0
42.5°	5416.6	5385.4	5211.4	5162.2	5101.0	5060.2	4979.8	4982.2	4881.3	5012.2	5987.9
45°	5709.5	5691.5	5512.7	5483.9	5549.9	5533.1	5602.7	5620.7	5425.0	5534.3	6566.5
47.5°	6024.0	6007.2	5855.9	5835.5	6014.4	6019.2	6265.2	6271.2	5955.5	6076.8	7146.2
50°	6411.6	6387.6	6237.6	6262.8	6463.2	6481.2	6931.3	6890.5	6444.0	6627.7	7721.1
52.5°	6667.3	6681.7	6649.3	6690.1	6963.7	6980.5	7586.7	7482.2	6927.7	7171.4	8285.2
55°	6855.7	6884.5	6985.3	7079.0	7491.8	7508.6	8204.8	8045.1	7328.6	7675.5	8815.7
57.5°	7098.2	7057.4	7245.8	7428.2	7993.5	8037.9	8806.1	8587.6	7683.9	8110.0	9179.4
60°	7446.2	7417.4	7563.8	7833.9	8555.2	8626.1	9442.2	9076.1	7944.3	8454.4	9250.2
62.5°	8152.0	8079.9	8102.8	8341.6	9263.4	9357.0	10159.9	9502.2	8073.9	8588.8	8870.9
65°	9207.0	9083.3	8968.1	9133.7	10260.8	10353.2	10970.1	9837.1	8025.9	8328.4	7863.9
67.5°	10535.6	10413.2	10271.6	10427.6	11729.8	11803.1	11969.9	10025.5	7647.9	7325.0	6084.0
70°	11631.4	11585.8	11755.1	12397.2	14076.3	14078.7	13251.7	9869.5	6612.1	5193.4	3520.3
72.5°	11486.2	11458.6	12350.4	14335.5	17033.7	16970.1	14465.2	8688.5	4454.1	2342.8	1319.1
75°	9423.0	9601.8	10983.3	14300.7	18095.9	18087.5	13722.2	5523.5	1842.4	971.0	681.7
77.5°	5053.0	5336.2	7130.6	10558.4	14126.7	14339.1	9647.4	1932.4	791.0	621.7	471.7
80°	1647.9	1895.2	2842.1	5375.8	9179.4	9139.8	4134.8	758.5	541.3	440.5	326.5
82.5°	699.7	728.5	1269.8	2538.5	4710.9	4637.7	1316.7	435.7	380.5	301.3	201.6
85°	273.7	306.1	560.5	1173.8	2040.4	1996.0	475.3	216.0	243.6	196.8	120.0
87.5°	90.0	109.2	200.4	402.1	634.9	612.1	116.4	74.4	105.6	90.0	43.2
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°	2958.6	2958.6	2958.6	2958.6	2958.6	2958.6	2958.6	2958.6	2958.6	2958.6	2958.6
2.5°	2983.8	3003.0	3025.8	3059.4	3088.2	3112.2	3137.4	3153.0	3159.0	3177.0	3175.8
5°	3005.4	3047.4	3103.8	3159.0	3213.0	3245.4	3274.2	3288.6	3301.8	3311.4	3313.8
7.5°	3041.4	3095.4	3184.2	3256.2	3301.8	3328.2	3347.4	3342.6	3347.4	3349.8	3353.4
10°	3072.6	3148.2	3253.8	3322.2	3357.0	3358.2	3353.4	3336.6	3328.2	3329.4	3331.8
12.5°	3109.8	3193.8	3307.8	3365.4	3375.0	3348.6	3328.2	3299.4	3288.6	3283.8	3281.4
15°	3160.2	3256.2	3366.6	3388.2	3364.2	3330.6	3295.8	3249.0	3225.0	3205.8	3211.8
17.5°	3221.4	3327.0	3412.3	3396.7	3345.0	3289.8	3233.4	3162.6	3113.4	3093.0	3094.2
20°	3306.6	3401.5	3447.1	3378.6	3300.6	3216.6	3120.6	3034.2	2988.6	2968.2	2965.8
22.5°	3409.9	3501.1	3480.7	3347.4	3237.0	3102.6	2982.6	2919.0	2896.2	2881.8	2884.2
25°	3533.5	3611.5	3504.7	3301.8	3132.6	2951.4	2858.9	2838.5	2827.7	2816.9	2816.9
27.5°	3694.3	3736.3	3522.7	3234.6	2969.4	2790.5	2756.9	2760.5	2756.9	2738.9	2742.5
30°	3906.7	3898.3	3539.5	3125.4	2782.1	2645.3	2647.7	2663.3	2665.7	2653.7	2659.7
32.5°	4186.4	4101.2	3547.9	2983.8	2603.3	2518.1	2520.5	2537.3	2549.3	2528.9	2538.5
35°	4524.9	4337.6	3534.7	2806.1	2465.3	2396.9	2378.9	2383.7	2387.3	2368.1	2381.3
37.5°	4919.7	4602.9	3475.9	2609.3	2351.3	2278.0	2239.6	2207.2	2188.0	2170.0	2182.0
40°	5353.0	4892.1	3367.8	2417.3	2224.0	2152.0	2094.4	2033.2	1968.4	1944.4	1955.2
42.5°	5806.7	5189.8	3237.0	2233.6	2077.6	2018.8	1957.6	1868.8	1771.5	1722.3	1728.3
45°	6277.2	5494.7	3108.6	2052.4	1927.6	1902.4	1831.6	1724.7	1619.1	1556.7	1551.9
47.5°	6738.1	5782.7	2920.2	1870.0	1787.1	1814.7	1759.5	1661.1	1543.5	1445.1	1434.3
50°	7178.6	6052.8	2611.7	1685.1	1673.1	1788.3	1735.5	1593.9	1459.5	1333.5	1322.7
52.5°	7615.5	6271.2	2216.8	1517.1	1611.9	1781.1	1704.3	1548.3	1383.9	1251.8	1237.4
55°	7986.3	6384.0	1836.4	1373.1	1523.1	1719.9	1667.1	1494.3	1277.0	1136.6	1124.6
57.5°	8197.6	6292.8	1519.5	1231.4	1400.7	1619.1	1603.5	1379.1	1149.8	1041.8	1027.4
60°	8106.4	5923.1	1260.2	1107.8	1284.2	1509.9	1493.1	1265.0	1052.6	950.6	936.2
62.5°	7603.5	5218.6	1055.0	999.8	1178.6	1398.3	1382.7	1177.4	978.2	879.8	864.2
65°	6590.5	4245.2	895.4	909.8	1071.8	1263.8	1286.6	1104.2	919.4	823.4	807.8
67.5°	5026.6	3075.0	770.5	831.8	967.4	1131.8	1197.8	1051.4	870.2	778.9	764.5
70°	2864.9	1746.3	664.9	756.1	875.0	1009.4	1129.4	1009.4	817.4	741.7	732.1
72.5°	1086.2	801.8	574.9	680.5	786.2	906.2	1053.8	943.4	756.1	699.7	690.1
75°	579.7	488.5	483.7	591.7	684.1	805.4	959.0	878.6	710.5	739.3	763.3
77.5°	394.9	345.7	404.5	506.5	572.5	693.7	858.2	780.1	615.7	613.3	565.3
80°	273.7	244.8	328.9	408.1	442.9	583.3	748.9	669.7	501.7	468.1	447.7
82.5°	164.4	159.6	246.0	304.9	313.3	450.1	620.5	561.7	410.5	357.7	360.1
85°	90.0	94.8	157.2	178.8	182.4	314.5	486.1	434.5	315.7	265.3	267.7
87.5°	25.2	32.4	57.6	70.8	87.6	163.2	289.3	258.0	158.4	110.4	110.4
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)