

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: P885011

Luminaire Tested: **NAV-SB6A-830-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885011
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-SB6A-830-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA 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: 23547 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

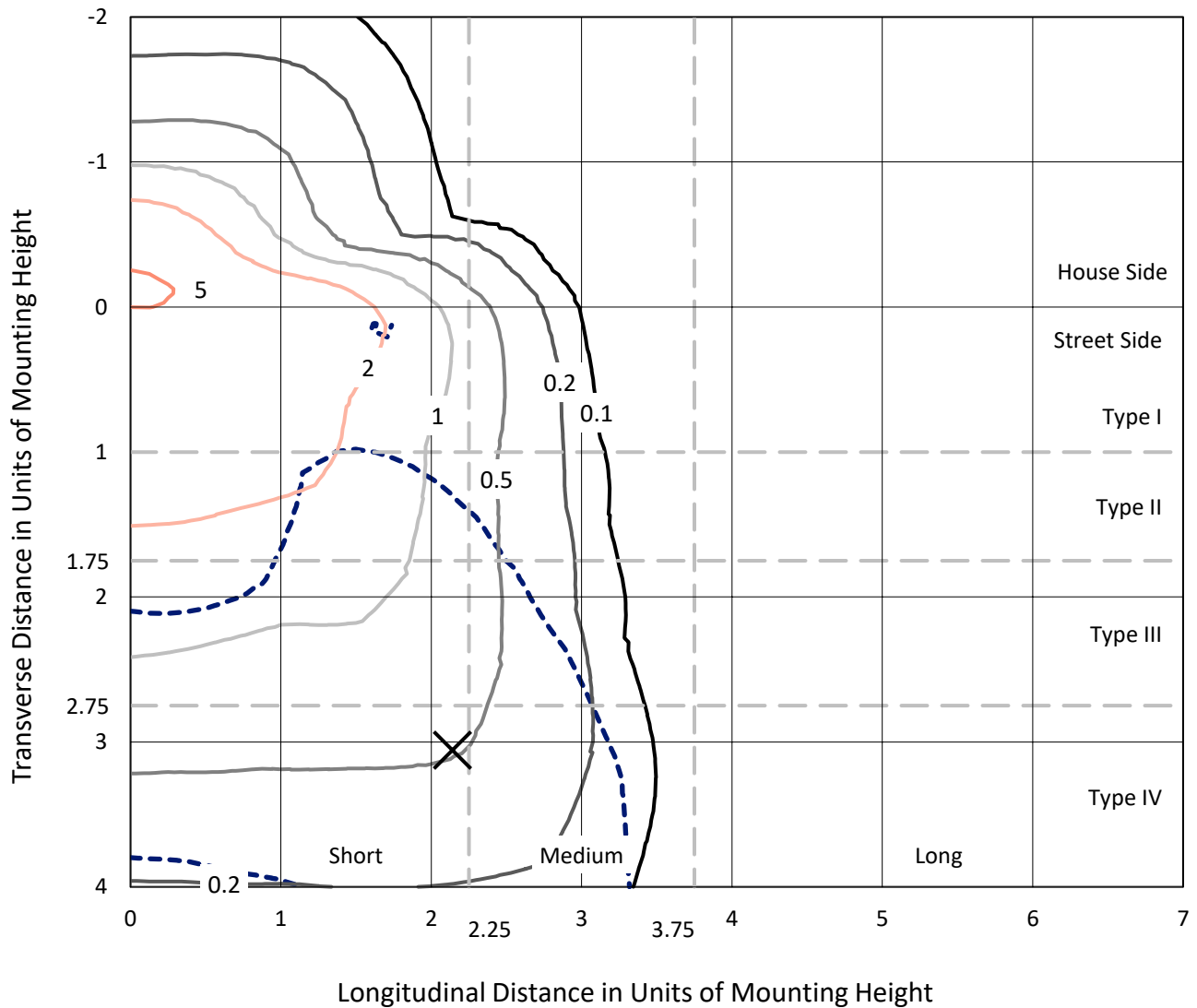
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

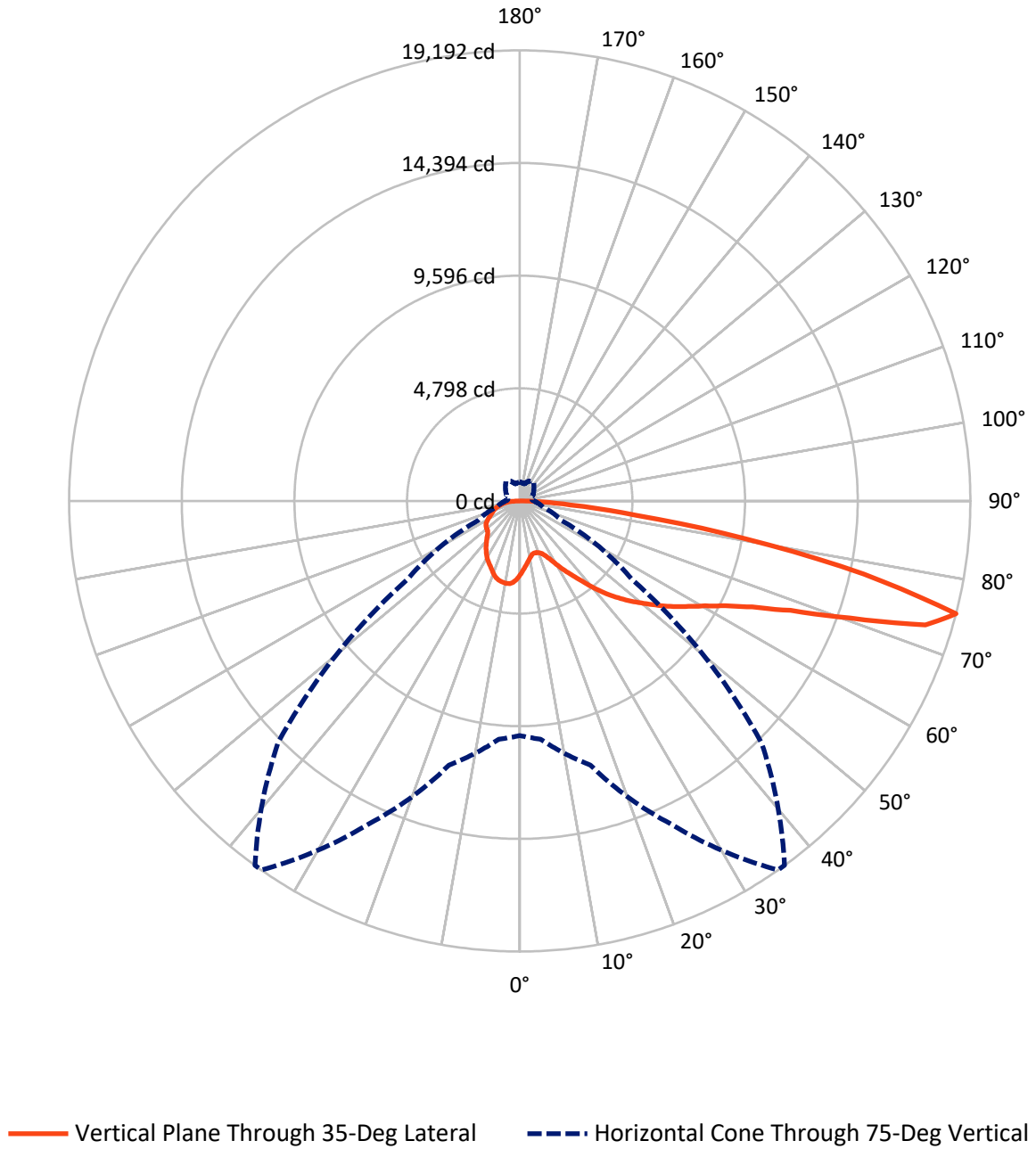
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	5603.6	0.0	5603.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	17943.4	0.0	17943.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	23547.0	0.0	23547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.1	1.3
10°-20°	856.9	3.6
20°-30°	1439.0	6.1
30°-40°	2236.4	9.5
40°-50°	3319.4	14.1
50°-60°	4582.7	19.5
60°-70°	5559.8	23.6
70°-80°	4594.8	19.5
80°-90°	660.9	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°	23547.0	100.0
0°-180°	23547.0	100.0

Coefficient of Utilization



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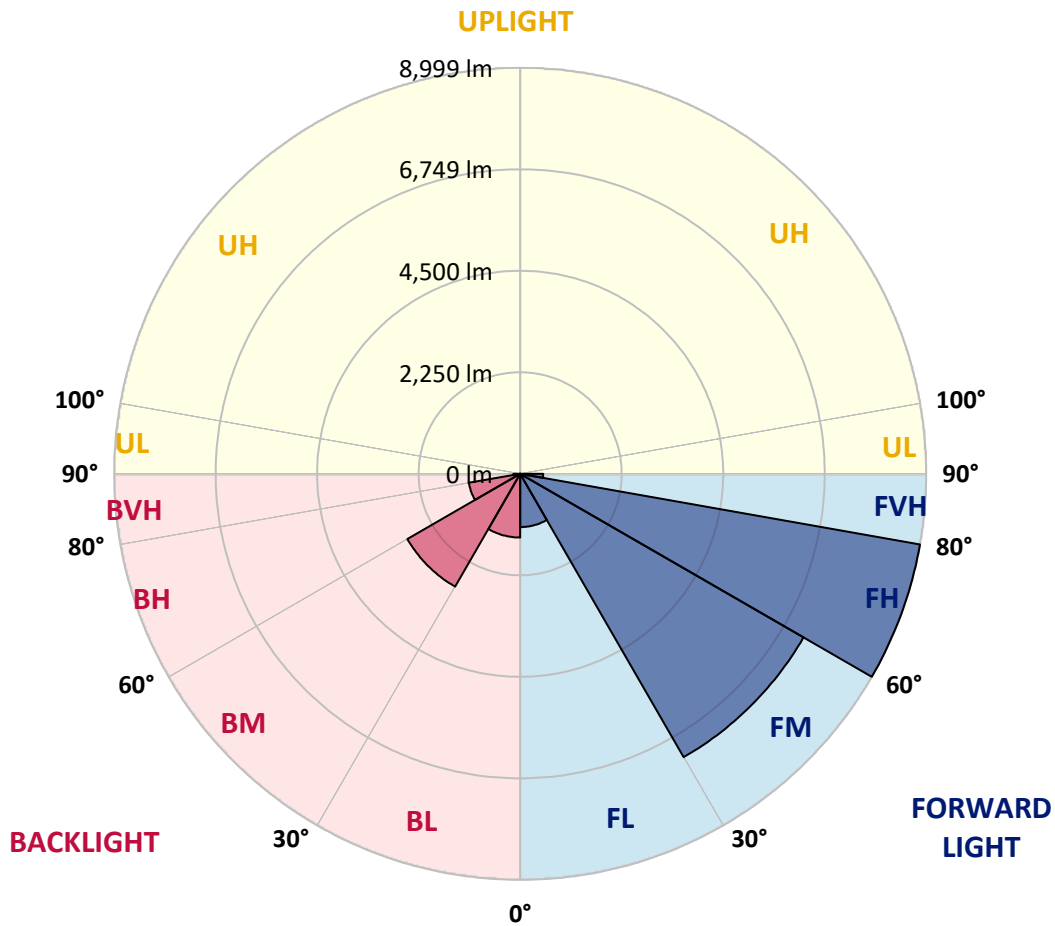
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1180.8	5.0			
FM (30°-60°)	7251.2	30.8			
FH (60°-80°)	8999.3	38.2			G4/12000
FVH (80°-90°)	512.1	2.2			G4/750
BL (0°-30°)	1412.2	6.0	B3/2500		
BM (30°-60°)	2887.3	12.3	B3/5000		
BH (60°-80°)	1155.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	148.8	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°	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8
2.5°	2893.4	2911.2	2918.9	2915.0	2934.1	2931.6	2958.3	2991.4	3037.2	3081.8	3146.7
5°	2670.6	2689.7	2706.3	2721.5	2758.5	2769.9	2811.9	2875.6	2959.6	3044.9	3151.8
7.5°	2463.1	2479.7	2505.1	2533.2	2595.5	2607.0	2677.0	2776.3	2893.4	3018.1	3165.8
10°	2293.8	2310.4	2337.1	2368.9	2446.6	2460.6	2549.7	2682.1	2834.8	2992.7	3181.1
12.5°	2221.3	2226.4	2241.6	2273.5	2340.9	2349.8	2447.9	2599.3	2777.6	2973.6	3204.0
15°	2217.5	2227.6	2228.9	2245.5	2301.5	2305.3	2395.7	2545.9	2741.9	2969.8	3238.4
17.5°	2255.6	2263.3	2251.8	2262.0	2309.1	2315.5	2386.8	2520.4	2730.5	2986.3	3296.9
20°	2357.5	2363.8	2329.5	2315.5	2349.8	2354.9	2425.0	2537.0	2741.9	3020.7	3377.1
22.5°	2573.9	2577.7	2493.7	2436.4	2439.0	2441.5	2502.6	2604.4	2786.5	3083.1	3478.9
25°	2911.2	2908.7	2775.0	2664.3	2600.6	2586.6	2627.3	2713.9	2861.6	3165.8	3610.1
27.5°	3305.8	3286.7	3153.1	2987.6	2848.8	2828.5	2819.6	2856.5	2968.5	3275.3	3770.4
30°	3751.4	3733.5	3589.7	3373.3	3181.1	3148.0	3064.0	3044.9	3127.6	3424.2	3993.2
32.5°	4240.2	4228.7	4056.9	3794.6	3537.5	3499.3	3358.0	3307.1	3372.0	3649.5	4303.8
35°	4650.0	4639.9	4497.3	4227.4	3913.0	3865.9	3722.1	3664.8	3697.9	3938.5	4709.9
37.5°	5020.5	5015.4	4893.2	4680.6	4356.0	4298.7	4137.1	4118.0	4111.6	4319.1	5202.5
40°	5364.2	5351.4	5224.1	5112.1	4871.5	4819.4	4676.8	4660.2	4611.9	4787.5	5760.1
42.5°	5744.8	5711.7	5527.1	5474.9	5410.0	5366.7	5281.4	5284.0	5177.0	5315.8	6350.7
45°	6055.4	6036.3	5846.6	5816.1	5886.1	5868.3	5942.1	5961.2	5753.7	5869.5	6964.3
47.5°	6388.9	6371.1	6210.7	6189.0	6378.7	6383.8	6644.7	6651.1	6316.3	6444.9	7579.1
50°	6800.0	6774.6	6615.5	6642.2	6854.8	6873.9	7351.2	7307.9	6834.4	7029.2	8188.8
52.5°	7071.2	7086.5	7052.1	7095.4	7385.6	7403.4	8046.3	7935.5	7347.4	7605.8	8787.1
55°	7271.0	7301.6	7408.5	7507.8	7945.7	7963.5	8701.8	8532.5	7772.6	8140.5	9349.7
57.5°	7528.2	7484.9	7684.7	7878.2	8477.8	8524.9	9339.6	9107.9	8149.4	8601.3	9735.4
60°	7897.3	7866.8	8022.1	8308.5	9073.5	9148.6	10014.2	9626.0	8425.6	8966.6	9810.5
62.5°	8645.8	8569.4	8593.6	8846.9	9824.6	9923.8	10775.4	10077.9	8563.1	9109.2	9408.3
65°	9764.7	9633.6	9511.4	9687.1	10882.4	10980.4	11634.7	10433.0	8512.1	8832.9	8340.3
67.5°	11173.9	11044.0	10893.8	11059.3	12440.4	12518.1	12695.0	10632.9	8111.2	7768.8	6452.5
70°	12336.1	12287.7	12467.2	13148.2	14929.0	14931.6	14054.5	10467.4	7012.6	5508.0	3733.5
72.5°	12182.0	12152.8	13098.6	15204.0	18065.6	17998.1	15341.5	9214.8	4723.9	2484.8	1399.0
75°	9993.9	10183.5	11648.7	15167.1	19192.1	19183.2	14553.5	5858.1	1954.0	1029.8	723.0
77.5°	5359.1	5659.5	7562.5	11198.1	14982.5	15207.8	10231.9	2049.4	838.9	659.4	500.3
80°	1747.7	2010.0	3014.3	5701.5	9735.4	9693.4	4385.3	804.5	574.1	467.2	346.2
82.5°	742.1	772.7	1346.8	2692.3	4996.3	4918.6	1396.4	462.1	403.5	319.5	213.9
85°	290.2	324.6	594.5	1244.9	2164.0	2116.9	504.1	229.1	258.4	208.8	127.3
87.5°	95.5	115.8	212.6	426.4	673.4	649.2	123.5	78.9	112.0	95.5	45.8
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°	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8
2.5°	3164.5	3184.9	3209.1	3244.7	3275.3	3300.7	3327.5	3344.0	3350.4	3369.5	3368.2
5°	3187.4	3232.0	3291.8	3350.4	3407.7	3442.0	3472.6	3487.9	3501.9	3512.0	3514.6
7.5°	3225.6	3282.9	3377.1	3453.5	3501.9	3529.9	3550.2	3545.1	3550.2	3552.8	3556.6
10°	3258.7	3338.9	3450.9	3523.5	3560.4	3561.7	3556.6	3538.8	3529.9	3531.1	3533.7
12.5°	3298.2	3387.3	3508.2	3569.3	3579.5	3551.5	3529.9	3499.3	3487.9	3482.8	3480.2
15°	3351.7	3453.5	3570.6	3593.5	3568.1	3532.4	3495.5	3445.8	3420.4	3400.0	3406.4
17.5°	3416.6	3528.6	3619.0	3602.4	3547.7	3489.1	3429.3	3354.2	3302.0	3280.4	3281.6
20°	3506.9	3607.5	3655.9	3583.3	3500.6	3411.5	3309.6	3218.0	3169.6	3148.0	3145.4
22.5°	3616.4	3713.2	3691.5	3550.2	3433.1	3290.5	3163.3	3095.8	3071.6	3056.3	3058.9
25°	3747.5	3830.3	3717.0	3501.9	3322.4	3130.2	3032.1	3010.5	2999.0	2987.6	2987.6
27.5°	3918.1	3962.7	3736.1	3430.6	3149.3	2959.6	2923.9	2927.8	2923.9	2904.8	2908.7
30°	4143.4	4134.5	3753.9	3314.7	2950.7	2805.6	2808.1	2824.7	2827.2	2814.5	2820.8
32.5°	4440.0	4349.6	3762.8	3164.5	2761.0	2670.6	2673.2	2691.0	2703.7	2682.1	2692.3
35°	4799.0	4600.4	3748.8	2976.1	2614.6	2542.1	2523.0	2528.1	2531.9	2511.5	2525.5
37.5°	5217.8	4881.7	3686.4	2767.4	2493.7	2416.0	2375.3	2340.9	2320.6	2301.5	2314.2
40°	5677.3	5188.5	3571.9	2563.7	2358.8	2282.4	2221.3	2156.4	2087.6	2062.2	2073.6
42.5°	6158.5	5504.2	3433.1	2368.9	2203.5	2141.1	2076.2	1982.0	1878.9	1826.7	1833.0
45°	6657.5	5827.5	3296.9	2176.7	2044.3	2017.6	1942.5	1829.2	1717.2	1651.0	1645.9
47.5°	7146.3	6133.0	3097.1	1983.2	1895.4	1924.7	1866.1	1761.7	1637.0	1532.6	1521.2
50°	7613.5	6419.4	2769.9	1787.2	1774.5	1896.7	1840.7	1690.5	1547.9	1414.2	1402.8
52.5°	8076.8	6651.1	2351.1	1609.0	1709.6	1889.0	1807.6	1642.1	1467.7	1327.7	1312.4
55°	8470.1	6770.8	1947.6	1456.2	1615.4	1824.1	1768.1	1584.8	1354.4	1205.5	1192.7
57.5°	8694.2	6674.0	1611.5	1306.0	1485.5	1717.2	1700.6	1462.6	1219.5	1104.9	1089.6
60°	8597.4	6282.0	1336.6	1174.9	1362.0	1601.4	1583.5	1341.7	1116.4	1008.2	992.9
62.5°	8064.1	5534.7	1118.9	1060.4	1250.0	1483.0	1466.4	1248.8	1037.4	933.1	916.5
65°	6989.7	4502.4	949.6	964.9	1136.7	1340.4	1364.6	1171.1	975.1	873.2	856.7
67.5°	5331.1	3261.3	817.2	882.1	1026.0	1200.4	1270.4	1115.1	922.9	826.1	810.9
70°	3038.5	1852.1	705.2	802.0	928.0	1070.5	1197.8	1070.5	866.9	786.7	776.5
72.5°	1152.0	850.3	609.7	721.8	833.8	961.1	1117.6	1000.5	802.0	742.1	731.9
75°	614.8	518.1	513.0	627.6	725.6	854.1	1017.1	931.8	753.6	784.1	809.6
77.5°	418.8	366.6	429.0	537.2	607.2	735.8	910.2	827.4	653.0	650.5	599.6
80°	290.2	259.7	348.8	432.8	469.7	618.6	794.3	710.3	532.1	496.4	474.8
82.5°	174.4	169.3	261.0	323.3	332.2	477.4	658.1	595.7	435.3	379.3	381.9
85°	95.5	100.6	166.8	189.7	193.5	333.5	515.5	460.8	334.8	281.3	283.9
87.5°	26.7	34.4	61.1	75.1	92.9	173.1	306.8	273.7	168.0	117.1	117.1
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)