

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: P883284

Luminaire Tested: **NAV-SB3C-760-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883284
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: LUMARK
Catalog Number: NAV-SB3C-760-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5700K, 615mA 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: 24007 lumens
Efficiency: N/A
Efficacy: 161.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

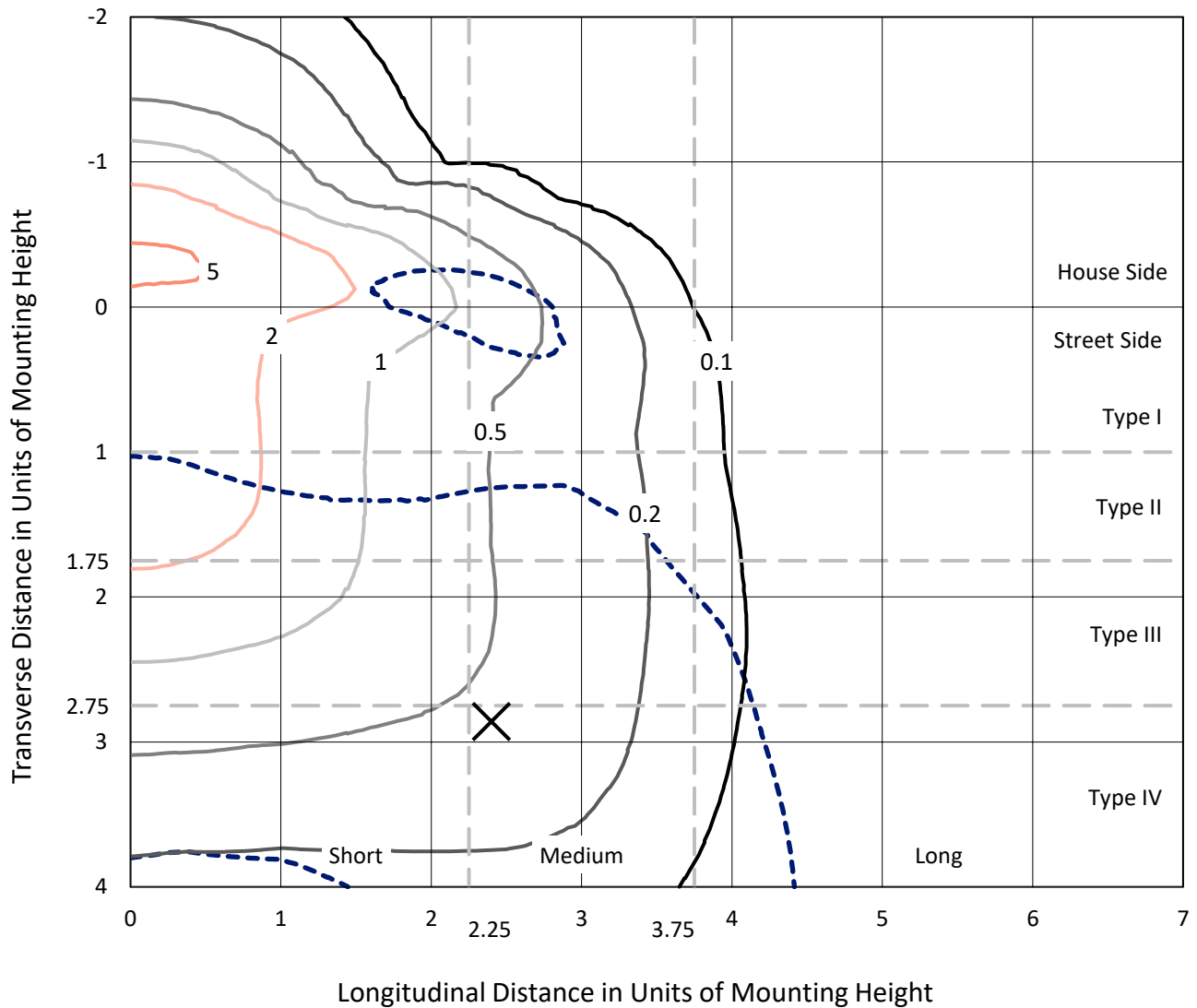
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

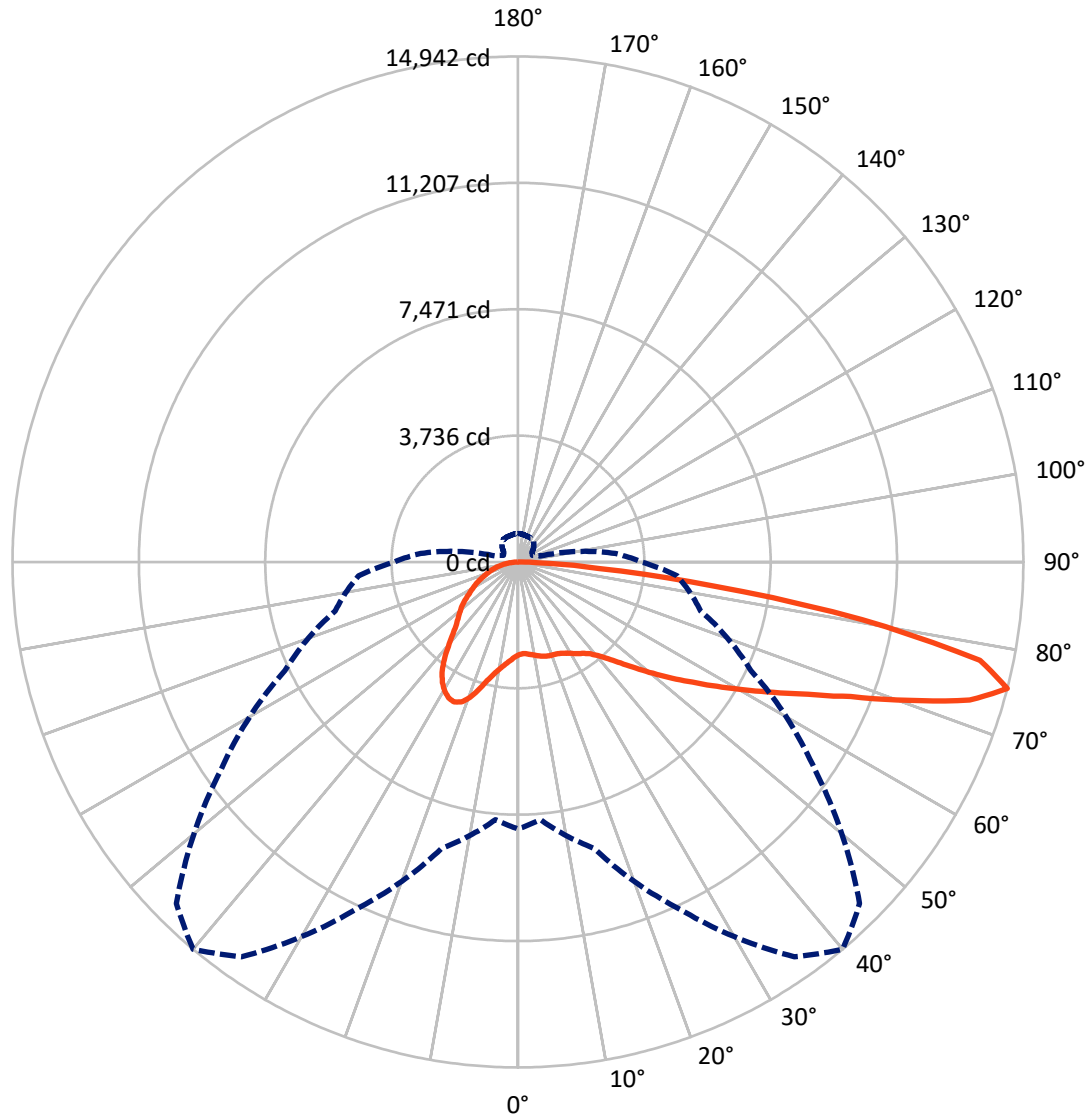
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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
House Side	Lumens	7438.2	0.0	7438.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	16568.8	0.0	16568.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	24007.0	0.0	24007.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.0	1.1
10°-20°	920.0	3.8
20°-30°	1679.9	7.0
30°-40°	2382.6	9.9
40°-50°	3217.2	13.4
50°-60°	4328.0	18.0
60°-70°	5493.2	22.9
70°-80°	4985.4	20.8
80°-90°	726.7	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°	24007.0	100.0
0°-180°	24007.0	100.0



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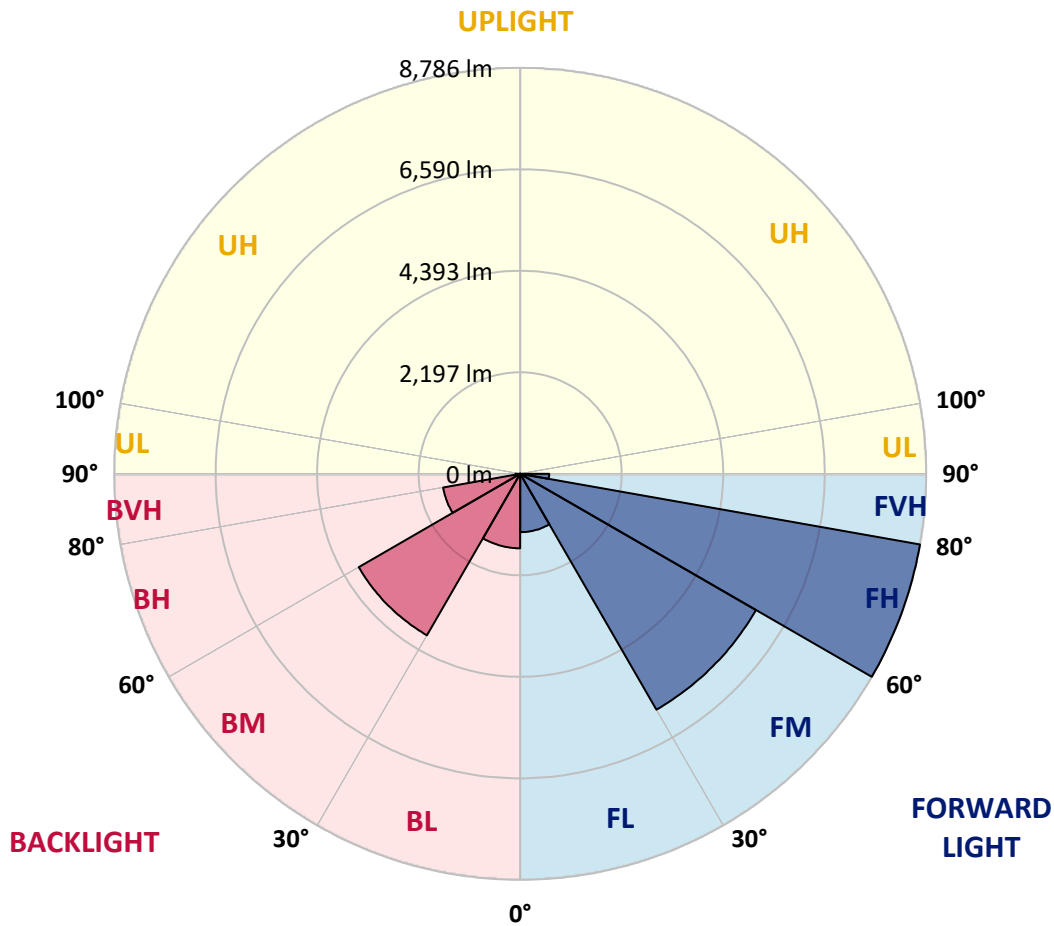
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1262.8	5.3			
FM (30°-60°)	5893.2	24.5			
FH (60°-80°)	8786.2	36.6			G4/12000
FVH (80°-90°)	626.7	2.6			G4/750
BL (0°-30°)	1611.2	6.7	B3/2500		
BM (30°-60°)	4034.5	16.8	B3/5000		
BH (60°-80°)	1692.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	100.1	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2
2.5°	2703.2	2718.5	2714.7	2709.6	2709.6	2710.9	2709.6	2718.5	2727.4	2736.3	2750.3
5°	2731.2	2746.5	2738.9	2732.5	2727.4	2726.1	2722.3	2721.0	2726.1	2737.6	2756.7
7.5°	2786.0	2801.3	2789.8	2778.3	2768.2	2763.1	2758.0	2750.3	2746.5	2752.9	2779.6
10°	2847.1	2862.4	2848.4	2828.0	2811.4	2805.1	2800.0	2792.3	2787.3	2791.1	2820.4
12.5°	2908.2	2923.5	2904.4	2876.4	2854.7	2850.9	2844.5	2842.0	2840.7	2839.5	2868.7
15°	2965.5	2978.2	2954.1	2920.9	2898.0	2891.7	2885.3	2889.1	2895.5	2903.1	2936.2
17.5°	3010.1	3022.8	2987.2	2943.9	2922.2	2919.7	2915.9	2928.6	2946.4	2965.5	3006.3
20°	3050.8	3063.6	3017.7	2959.1	2933.7	2933.7	2935.0	2961.7	2987.2	3015.2	3071.2
22.5°	3108.1	3118.3	3062.3	2982.1	2945.1	2947.7	2957.9	2984.6	3016.4	3054.6	3132.3
25°	3193.4	3201.1	3132.3	3025.4	2983.3	2991.0	2999.9	3012.6	3043.2	3087.7	3192.2
27.5°	3330.9	3337.3	3246.9	3101.8	3038.1	3050.8	3063.6	3054.6	3068.7	3106.8	3240.5
30°	3524.5	3528.3	3413.7	3221.4	3131.0	3137.4	3140.0	3103.0	3076.3	3106.8	3274.9
32.5°	3753.7	3752.4	3616.2	3366.6	3236.7	3230.4	3208.7	3136.1	3073.7	3100.5	3305.5
35°	4108.9	4094.9	3919.2	3570.3	3356.4	3316.9	3266.0	3173.1	3086.5	3094.1	3332.2
37.5°	4697.2	4653.9	4410.7	3903.9	3534.7	3434.1	3359.0	3232.9	3114.5	3091.6	3364.1
40°	5360.6	5305.8	5038.4	4361.0	3802.1	3640.4	3519.4	3318.2	3160.3	3103.0	3411.2
42.5°	6147.5	6069.8	5782.1	4899.7	4140.8	3906.5	3724.4	3426.4	3227.8	3140.0	3474.8
45°	7113.9	7010.8	6603.3	5507.0	4567.3	4255.4	4012.2	3590.7	3330.9	3211.3	3570.3
47.5°	8090.5	8116.0	7536.7	6202.2	5079.2	4685.7	4372.5	3837.7	3481.2	3325.9	3724.4
50°	9128.3	9146.1	8464.9	6972.6	5659.8	5172.1	4777.4	4114.0	3690.0	3488.8	3954.9
52.5°	9938.1	9940.6	9307.8	7778.6	6264.6	5706.9	5214.2	4429.8	3931.9	3705.3	4261.7
55°	10444.9	10438.5	9898.6	8541.3	6959.9	6268.5	5698.0	4788.9	4227.4	3960.0	4647.5
57.5°	10812.9	10793.8	10306.1	9197.0	7700.9	6931.8	6245.5	5196.3	4576.2	4263.0	5155.6
60°	10952.9	10941.5	10582.4	9763.7	8480.2	7665.3	6877.1	5652.2	4972.2	4620.8	5808.8
62.5°	11006.4	11028.0	10853.6	10312.4	9314.2	8477.6	7571.0	6197.1	5417.9	5025.7	6497.6
65°	11194.8	11234.3	11198.7	11030.6	10256.4	9428.8	8491.6	6845.3	5904.3	5459.9	7217.1
67.5°	11567.9	11607.4	11622.7	11890.1	11407.5	10614.2	9640.1	7652.5	6473.5	5910.7	7758.2
70°	11559.0	11547.5	11817.5	12573.8	12848.9	12255.5	11188.5	8645.7	7152.1	6285.0	7827.0
72.5°	10521.3	10429.6	11067.5	12566.2	14048.3	13969.4	13079.3	9926.6	7737.8	6330.8	6791.8
75°	7893.2	7648.7	8775.6	11324.7	14248.2	14942.2	14281.3	10721.2	7599.0	5593.6	4726.5
77.5°	3375.5	3129.8	4457.8	8383.4	12752.1	13968.1	13178.6	9353.7	6066.0	3698.9	2321.2
80°	883.7	882.4	1347.2	3800.8	8672.4	10315.0	9049.3	6040.5	3465.9	1321.7	640.5
82.5°	365.4	356.5	495.3	1478.3	4237.5	5788.4	4723.9	2694.3	1251.7	357.8	212.6
85°	136.2	135.0	240.7	510.6	1494.9	2387.4	1727.9	688.9	312.0	174.4	95.5
87.5°	38.2	36.9	52.2	177.0	364.2	552.6	295.4	113.3	87.9	68.8	28.0
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°	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2
2.5°	2754.1	2760.5	2772.0	2780.9	2792.3	2805.1	2822.9	2834.4	2845.8	2853.5	2848.4
5°	2765.6	2779.6	2808.9	2838.2	2872.6	2904.4	2941.3	2968.1	2989.7	2996.1	2998.6
7.5°	2791.1	2814.0	2863.6	2913.3	2968.1	3020.3	3073.7	3119.6	3156.5	3170.5	3171.8
10°	2835.6	2866.2	2936.2	3006.3	3078.8	3159.1	3227.8	3294.0	3346.2	3367.9	3369.1
12.5°	2891.7	2929.9	3021.5	3118.3	3218.9	3329.7	3418.8	3500.3	3565.2	3594.5	3594.5
15°	2964.2	3013.9	3131.0	3260.9	3408.6	3562.7	3676.0	3766.4	3839.0	3874.6	3872.1
17.5°	3043.2	3109.4	3257.1	3453.2	3664.6	3867.0	3999.4	4065.6	4140.8	4175.1	4173.9
20°	3119.6	3201.1	3412.4	3697.7	3979.1	4194.2	4301.2	4319.0	4324.1	4327.9	4338.1
22.5°	3198.5	3308.0	3607.3	4005.8	4307.6	4456.5	4471.8	4395.4	4288.5	4238.8	4252.8
25°	3285.1	3430.3	3861.9	4345.8	4590.2	4608.1	4490.9	4305.0	4102.6	4009.6	4023.6
27.5°	3369.1	3571.6	4167.5	4670.5	4794.0	4637.4	4385.2	4121.7	3877.2	3779.2	3790.6
30°	3453.2	3733.3	4504.9	4954.4	4886.9	4564.8	4218.4	3924.3	3678.6	3575.4	3586.9
32.5°	3538.5	3921.8	4893.3	5159.4	4870.4	4410.7	4010.9	3702.8	3486.3	3378.1	3392.1
35°	3635.3	4153.5	5261.3	5271.5	4759.6	4184.1	3737.1	3437.9	3249.5	3162.9	3182.0
37.5°	3761.3	4447.6	5586.0	5299.5	4566.0	3851.7	3397.2	3124.7	2969.3	2929.9	2957.9
40°	3917.9	4801.6	5834.3	5254.9	4279.6	3448.1	3025.4	2807.6	2719.8	2728.7	2759.2
42.5°	4121.7	5197.6	6008.7	5140.3	3881.0	3031.7	2699.4	2602.6	2644.6	2680.3	2713.4
45°	4386.5	5608.9	6116.9	4945.5	3430.3	2679.0	2507.1	2530.0	2561.9	2565.7	2591.2
47.5°	4725.2	6025.3	6188.2	4651.4	2970.6	2430.7	2384.9	2390.0	2383.6	2356.9	2377.2
50°	5147.9	6430.2	6251.9	4261.7	2579.7	2275.4	2214.3	2196.4	2108.6	2022.0	2033.5
52.5°	5629.3	6802.0	6278.6	3777.9	2275.4	2145.5	2046.2	1934.1	1769.9	1743.1	1752.1
55°	6164.0	7145.8	6209.9	3183.2	2019.5	1978.7	1828.5	1693.5	1675.7	1652.7	1656.6
57.5°	6803.2	7516.3	6069.8	2519.9	1757.2	1783.9	1637.5	1652.7	1620.9	1585.3	1578.9
60°	7502.3	7899.5	5824.1	1915.0	1485.9	1540.7	1587.8	1586.5	1577.6	1548.3	1538.1
62.5°	8131.3	8151.7	5340.2	1466.8	1247.8	1352.2	1480.8	1479.6	1471.9	1455.4	1449.0
65°	8505.6	8113.5	4532.9	1154.9	1051.7	1196.9	1335.7	1345.9	1347.2	1345.9	1345.9
67.5°	8439.4	7666.5	3425.2	919.3	890.0	1039.0	1191.8	1205.8	1216.0	1218.5	1221.1
70°	7690.7	6684.8	2233.4	733.4	746.2	900.2	1055.6	1069.6	1078.5	1088.7	1093.8
72.5°	5994.7	4914.9	1278.4	593.4	620.1	780.5	920.6	937.1	942.2	961.3	969.0
75°	3653.1	2890.4	690.1	467.3	509.3	667.2	786.9	806.0	814.9	837.8	840.4
77.5°	1736.8	1251.7	393.4	364.2	410.0	545.0	664.7	686.3	662.1	674.8	664.7
80°	587.0	464.8	248.3	277.6	313.2	425.3	532.2	553.9	503.0	500.4	495.3
82.5°	205.0	188.4	157.9	184.6	202.5	304.3	402.4	430.4	374.3	373.1	355.3
85°	80.2	76.4	87.9	100.6	121.0	187.2	264.8	278.9	230.5	185.9	183.4
87.5°	16.6	17.8	21.6	22.9	36.9	64.9	95.5	117.1	93.0	78.9	72.6
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)