

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: P884944

Luminaire Tested: **NAV-SB6A-730-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884944
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-SB6A-730-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 350mA 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: 26568 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

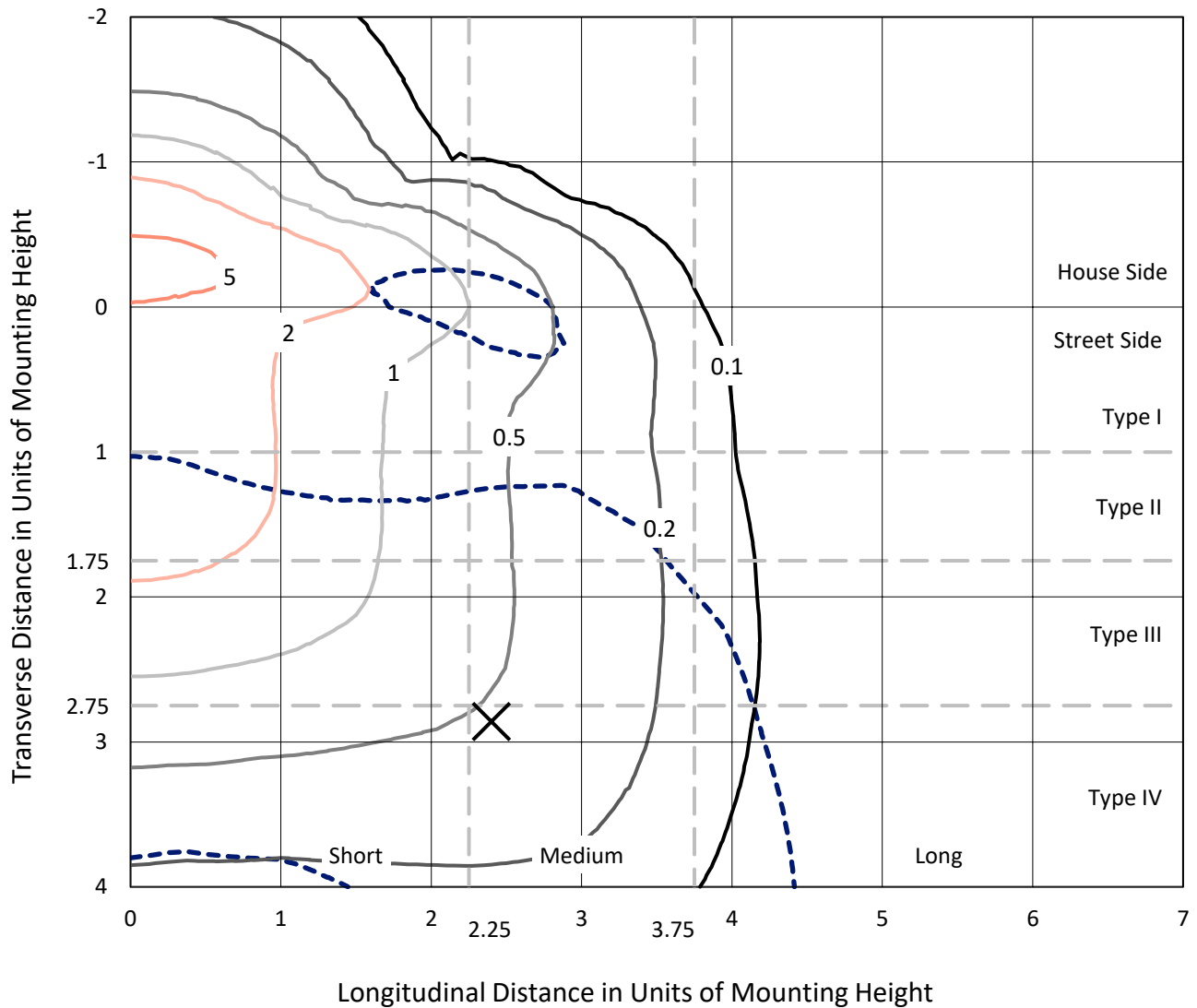
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

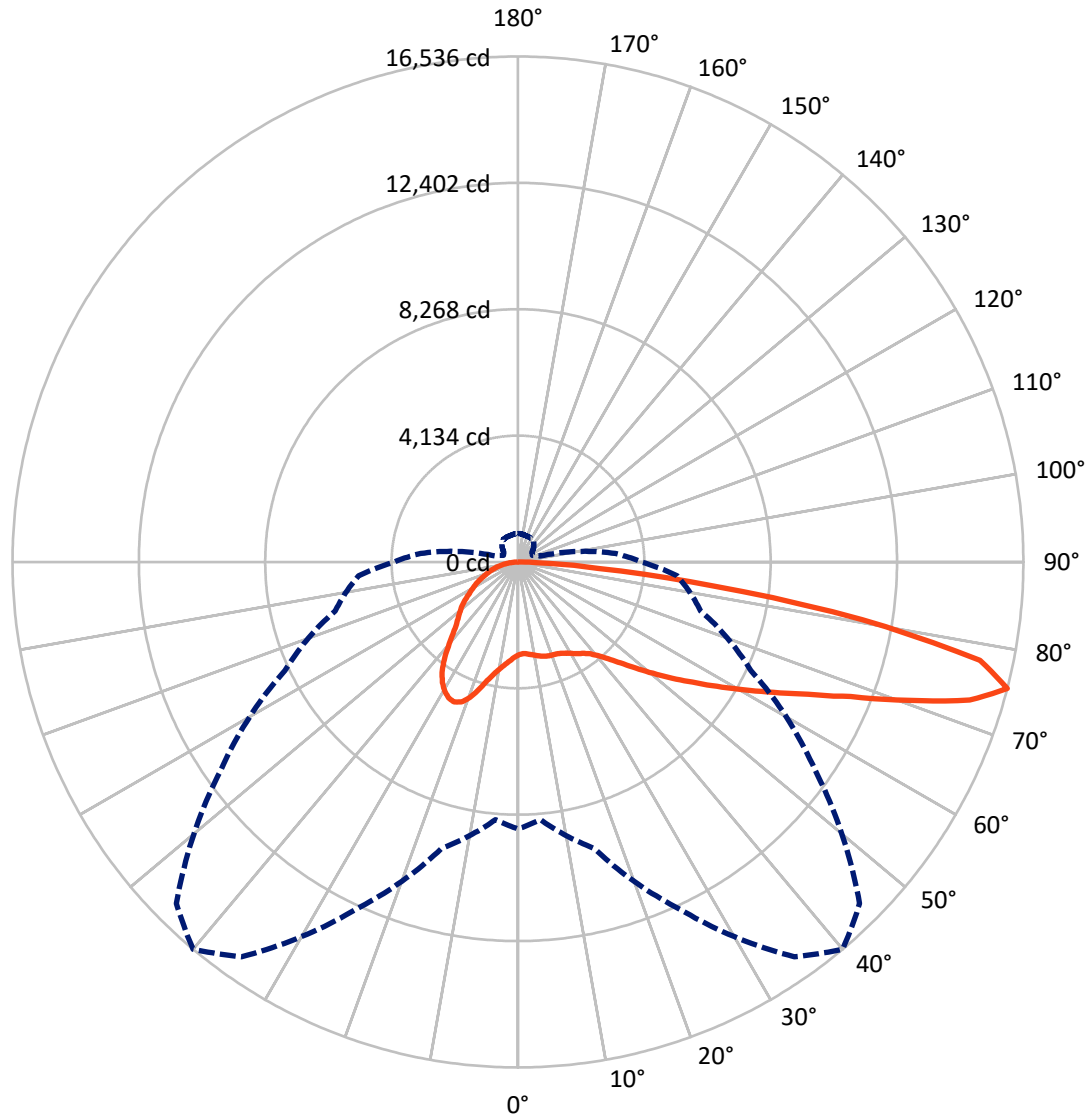
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	8231.7	0.0	8231.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	18336.4	0.0	18336.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	26568.0	0.0	26568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.3	1.1
10°-20°	1018.2	3.8
20°-30°	1859.1	7.0
30°-40°	2636.7	9.9
40°-50°	3560.4	13.4
50°-60°	4789.7	18.0
60°-70°	6079.2	22.9
70°-80°	5517.2	20.8
80°-90°	804.2	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°	26568.0	100.0
0°-180°	26568.0	100.0

Coefficient of Utilization



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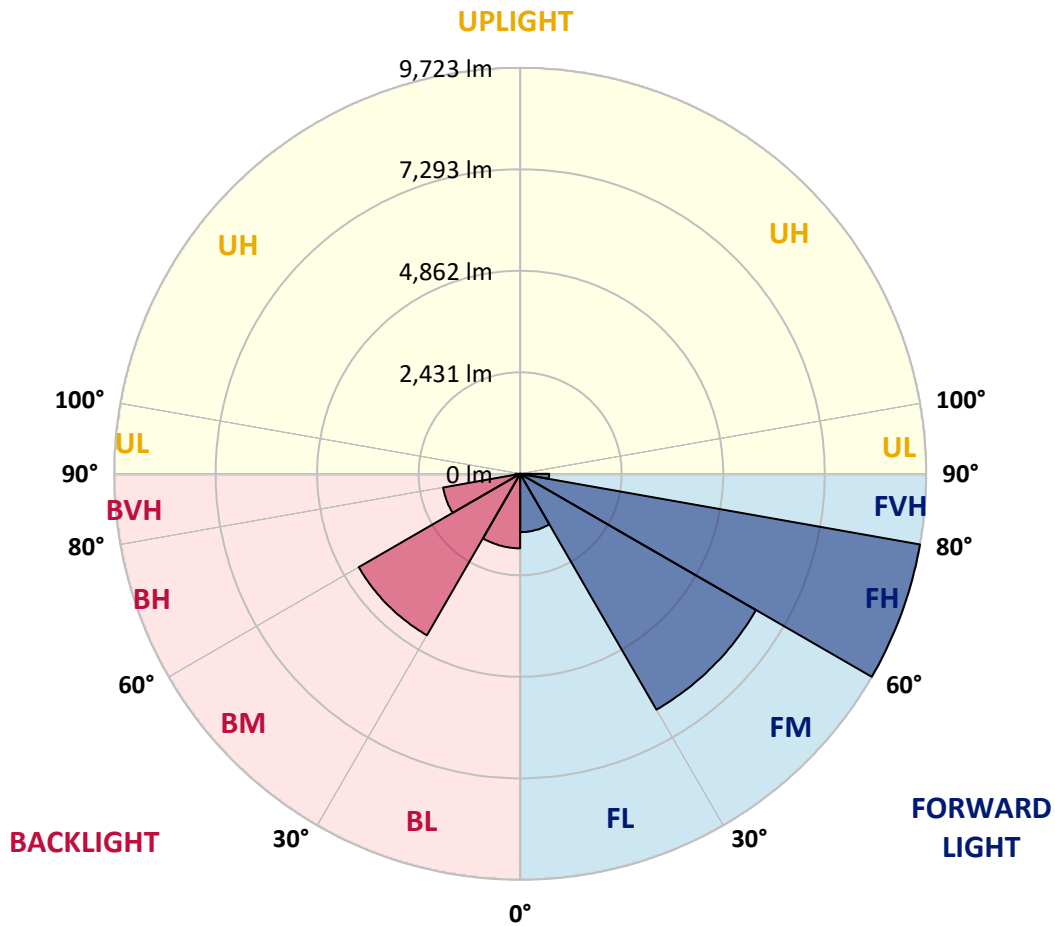
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1397.5	5.3			
FM (30°-60°)	6521.9	24.5			
FH (60°-80°)	9723.5	36.6			G4/12000
FVH (80°-90°)	693.5	2.6			G4/750
BL (0°-30°)	1783.1	6.7	B3/2500		
BM (30°-60°)	4464.9	16.8	B3/5000		
BH (60°-80°)	1872.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	110.7	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°	3038.1	3038.1	3038.1	3038.1	3038.1	3038.1	3038.1	3038.1	3038.1	3038.1	3038.1
2.5°	2991.6	3008.5	3004.3	2998.6	2998.6	3000.0	2998.6	3008.5	3018.4	3028.2	3043.7
5°	3022.6	3039.5	3031.0	3024.0	3018.4	3016.9	3012.7	3011.3	3016.9	3029.6	3050.8
7.5°	3083.2	3100.1	3087.4	3074.7	3063.5	3057.8	3052.2	3043.7	3039.5	3046.5	3076.1
10°	3150.8	3167.7	3152.2	3129.7	3111.4	3104.3	3098.7	3090.2	3084.6	3088.8	3121.2
12.5°	3218.5	3235.4	3214.2	3183.2	3159.3	3155.0	3148.0	3145.2	3143.8	3142.4	3174.8
15°	3281.9	3296.0	3269.2	3232.5	3207.2	3200.1	3193.1	3197.3	3204.4	3212.8	3249.5
17.5°	3331.2	3345.3	3305.8	3257.9	3234.0	3231.1	3226.9	3241.0	3260.7	3281.9	3327.0
20°	3376.3	3390.4	3339.6	3274.8	3246.6	3246.6	3248.0	3277.6	3305.8	3336.8	3398.8
22.5°	3439.7	3451.0	3389.0	3300.2	3259.3	3262.1	3273.4	3303.0	3338.2	3380.5	3466.5
25°	3534.1	3542.6	3466.5	3348.1	3301.6	3310.0	3319.9	3334.0	3367.8	3417.1	3532.7
27.5°	3686.3	3693.3	3593.3	3432.6	3362.2	3376.3	3390.4	3380.5	3396.0	3438.3	3586.2
30°	3900.5	3904.7	3777.9	3565.1	3465.1	3472.1	3474.9	3434.1	3404.5	3438.3	3624.3
32.5°	4154.1	4152.7	4001.9	3725.7	3582.0	3575.0	3551.0	3470.7	3401.6	3431.2	3658.1
35°	4547.3	4531.8	4337.3	3951.2	3714.5	3670.8	3614.4	3511.6	3415.7	3424.2	3687.7
37.5°	5198.3	5150.4	4881.2	4320.4	3911.7	3800.4	3717.3	3577.8	3446.7	3421.4	3722.9
40°	5932.4	5871.8	5575.9	4826.3	4207.7	4028.7	3894.8	3672.2	3497.5	3434.1	3775.1
42.5°	6803.3	6717.3	6398.9	5422.3	4582.5	4323.2	4121.7	3792.0	3572.1	3474.9	3845.5
45°	7872.8	7758.7	7307.8	6094.5	5054.6	4709.3	4440.2	3973.7	3686.3	3553.8	3951.2
47.5°	8953.6	8981.8	8340.6	6863.9	5621.0	5185.6	4839.0	4247.1	3852.6	3680.6	4121.7
50°	10102.1	10121.8	9367.9	7716.4	6263.6	5723.9	5287.1	4552.9	4083.7	3861.0	4376.8
52.5°	10998.3	11001.1	10300.7	8608.4	6932.9	6315.7	5770.4	4902.4	4351.4	4100.6	4716.4
55°	11559.1	11552.1	10954.6	9452.5	7702.3	6937.2	6305.9	5299.7	4678.3	4382.4	5143.3
57.5°	11966.3	11945.2	11405.5	10178.2	8522.4	7671.3	6911.8	5750.7	5064.4	4717.8	5705.6
60°	12121.3	12108.7	11711.3	10805.2	9384.8	8483.0	7610.7	6255.1	5502.7	5113.7	6428.5
62.5°	12180.5	12204.5	12011.4	11412.6	10307.8	9382.0	8378.7	6858.2	5995.9	5561.8	7190.8
65°	12389.1	12432.8	12393.3	12207.3	11350.5	10434.6	9397.5	7575.5	6534.1	6042.4	7987.0
67.5°	12802.0	12845.6	12862.5	13158.5	12624.4	11746.5	10668.5	8468.9	7164.0	6541.2	8585.8
70°	12792.1	12779.4	13078.1	13915.2	14219.5	13562.9	12382.0	9568.0	7915.1	6955.5	8661.9
72.5°	11643.6	11542.2	12248.2	13906.7	15546.9	15459.6	14474.6	10985.6	8563.3	7006.2	7516.3
75°	8735.2	8464.6	9711.7	12532.8	15768.2	16536.2	15804.8	11864.9	8409.7	6190.3	5230.7
77.5°	3735.6	3463.6	4933.4	9277.7	14112.4	15458.2	14584.5	10351.5	6713.1	4093.5	2568.8
80°	977.9	976.5	1490.9	4206.3	9597.6	11415.4	10014.7	6684.9	3835.7	1462.7	708.8
82.5°	404.4	394.6	548.2	1636.0	4689.6	6405.9	5227.9	2981.7	1385.2	396.0	235.3
85°	150.8	149.4	266.3	565.1	1654.3	2642.1	1912.2	762.3	345.2	193.1	105.7
87.5°	42.3	40.9	57.8	195.9	403.0	611.6	326.9	125.4	97.2	76.1	31.0
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°	3038.1	3038.1	3038.1	3038.1	3038.1	3038.1	3038.1	3038.1	3038.1	3038.1	3038.1
2.5°	3048.0	3055.0	3067.7	3077.5	3090.2	3104.3	3124.0	3136.7	3149.4	3157.9	3152.2
5°	3060.6	3076.1	3108.5	3141.0	3179.0	3214.2	3255.1	3284.7	3308.6	3315.7	3318.5
7.5°	3088.8	3114.2	3169.1	3224.1	3284.7	3342.5	3401.6	3452.4	3493.2	3508.7	3510.1
10°	3138.1	3172.0	3249.5	3327.0	3407.3	3496.1	3572.1	3645.4	3703.2	3727.2	3728.6
12.5°	3200.1	3242.4	3343.9	3451.0	3562.3	3684.9	3783.5	3873.7	3945.6	3978.0	3978.0
15°	3280.5	3335.4	3465.1	3608.8	3772.2	3942.7	4068.2	4168.2	4248.5	4288.0	4285.2
17.5°	3367.8	3441.1	3604.6	3821.6	4055.5	4279.5	4426.1	4499.4	4582.5	4620.5	4619.1
20°	3452.4	3542.6	3776.5	4092.1	4403.5	4641.7	4760.0	4779.8	4785.4	4789.6	4800.9
22.5°	3539.7	3660.9	3992.1	4433.1	4767.1	4932.0	4948.9	4864.3	4746.0	4691.0	4706.5
25°	3635.6	3796.2	4273.9	4809.4	5079.9	5099.6	4970.0	4764.3	4540.2	4437.4	4452.9
27.5°	3728.6	3952.6	4612.1	5168.7	5305.4	5132.1	4853.0	4561.4	4290.8	4182.3	4195.0
30°	3821.6	4131.6	4985.5	5482.9	5408.2	5051.7	4668.5	4342.9	4071.0	3956.8	3969.5
32.5°	3916.0	4340.1	5415.3	5709.8	5389.9	4881.2	4438.8	4097.8	3858.2	3738.4	3753.9
35°	4023.1	4596.6	5822.5	5833.8	5267.3	4630.4	4135.8	3804.7	3596.1	3500.3	3521.4
37.5°	4162.6	4922.1	6181.9	5864.8	5053.1	4262.6	3759.6	3458.0	3286.1	3242.4	3273.4
40°	4335.9	5313.8	6456.6	5815.5	4736.1	3815.9	3348.1	3107.1	3009.9	3019.8	3053.6
42.5°	4561.4	5752.1	6649.7	5688.7	4295.0	3355.1	2987.4	2880.3	2926.8	2966.2	3002.9
45°	4854.5	6207.2	6769.5	5473.1	3796.2	2964.8	2774.6	2799.9	2835.2	2839.4	2867.6
47.5°	5229.3	6668.0	6848.4	5147.6	3287.5	2690.0	2639.3	2644.9	2637.9	2608.3	2630.8
50°	5697.1	7116.1	6918.8	4716.4	2854.9	2518.1	2450.5	2430.8	2333.5	2237.7	2250.4
52.5°	6229.8	7527.6	6948.4	4180.9	2518.1	2374.4	2264.5	2140.5	1958.7	1929.1	1939.0
55°	6821.6	7908.0	6872.3	3522.8	2234.9	2189.8	2023.5	1874.1	1854.4	1829.1	1833.3
57.5°	7529.0	8318.1	6717.3	2788.7	1944.6	1974.2	1812.1	1829.1	1793.8	1754.4	1747.3
60°	8302.6	8742.2	6445.4	2119.3	1644.5	1705.0	1757.2	1755.8	1745.9	1713.5	1702.2
62.5°	8998.7	9021.3	5909.9	1623.3	1380.9	1496.5	1638.8	1637.4	1629.0	1610.6	1603.6
65°	9413.0	8979.0	5016.5	1278.1	1163.9	1324.6	1478.2	1489.5	1490.9	1489.5	1489.5
67.5°	9339.7	8484.4	3790.6	1017.4	985.0	1149.9	1318.9	1334.4	1345.7	1348.5	1351.4
70°	8511.2	7397.9	2471.6	811.7	825.8	996.3	1168.2	1183.7	1193.5	1204.8	1210.4
72.5°	6634.2	5439.2	1414.8	656.7	686.2	863.8	1018.8	1037.1	1042.8	1063.9	1072.3
75°	4042.8	3198.7	763.7	517.2	563.7	738.4	870.8	892.0	901.8	927.2	930.0
77.5°	1922.1	1385.2	435.4	403.0	453.7	603.1	735.6	759.5	732.7	746.8	735.6
80°	649.6	514.3	274.8	307.2	346.6	470.6	589.0	613.0	556.6	553.8	548.2
82.5°	226.9	208.6	174.7	204.3	224.1	336.8	445.3	476.3	414.3	412.9	393.1
85°	88.8	84.5	97.2	111.3	133.9	207.1	293.1	308.6	255.1	205.7	202.9
87.5°	18.3	19.7	24.0	25.4	40.9	71.9	105.7	129.6	102.9	87.4	80.3
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)