

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: P885164

Luminaire Tested: **NAV-SB6B-827-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885164
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-SB6B-827-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA 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: 27528 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

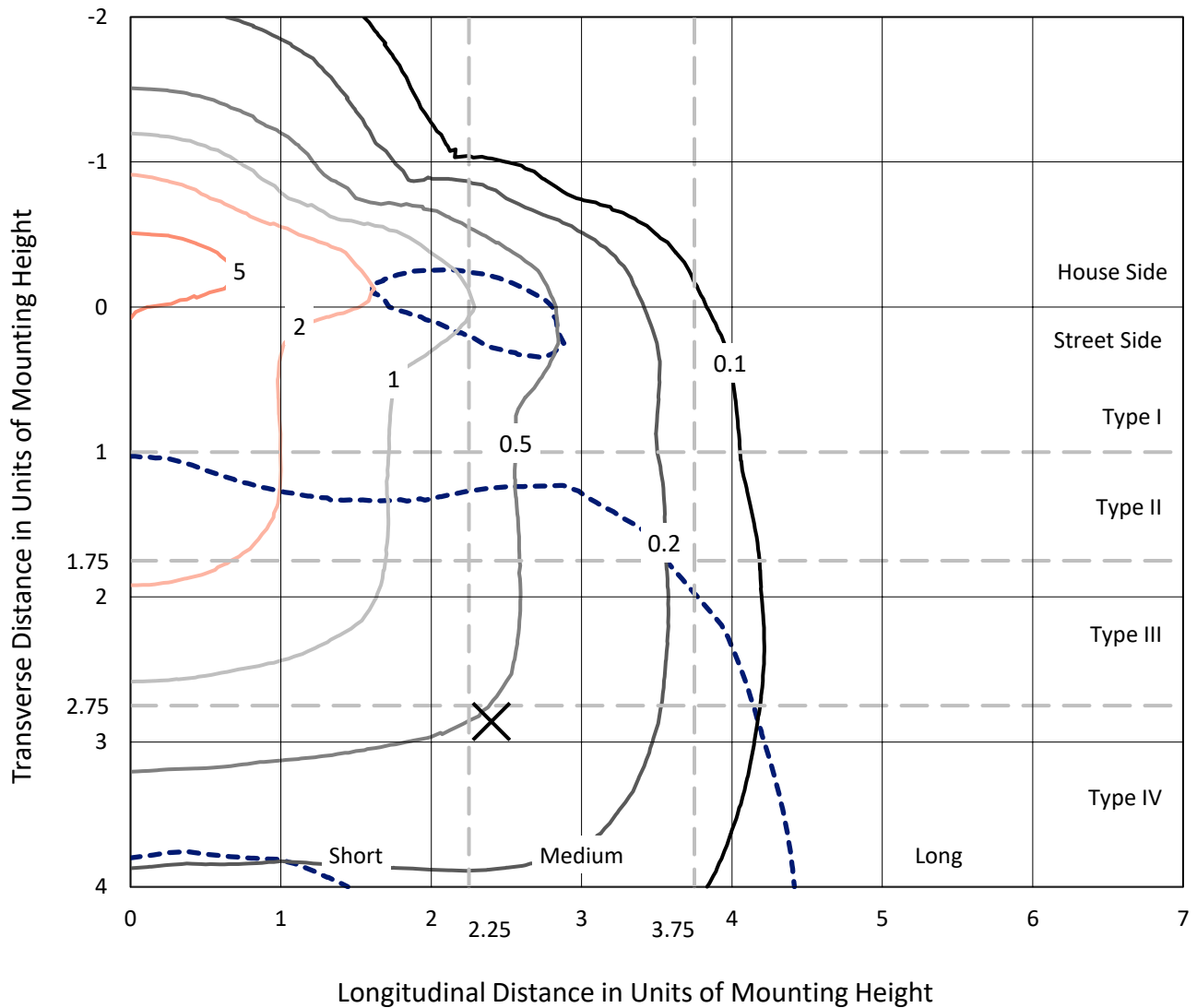
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

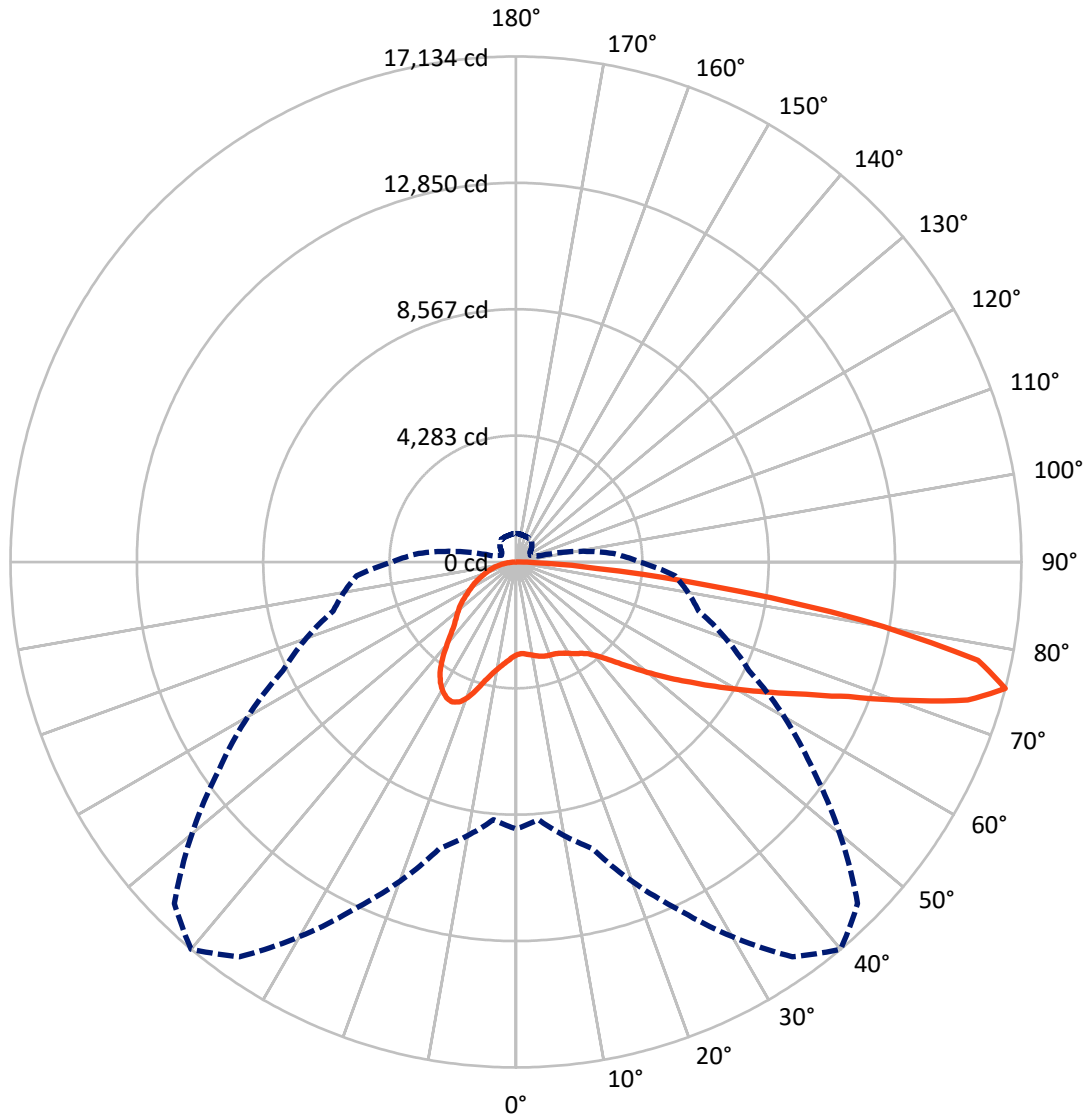
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	8529.1	0.0	8529.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	18998.9	0.0	18998.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	27528.0	0.0	27528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.2	1.1
10°-20°	1055.0	3.8
20°-30°	1926.3	7.0
30°-40°	2732.0	9.9
40°-50°	3689.0	13.4
50°-60°	4962.7	18.0
60°-70°	6298.9	22.9
70°-80°	5716.6	20.8
80°-90°	833.3	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°	27528.0	100.0
0°-180°	27528.0	100.0

Coefficient of Utilization



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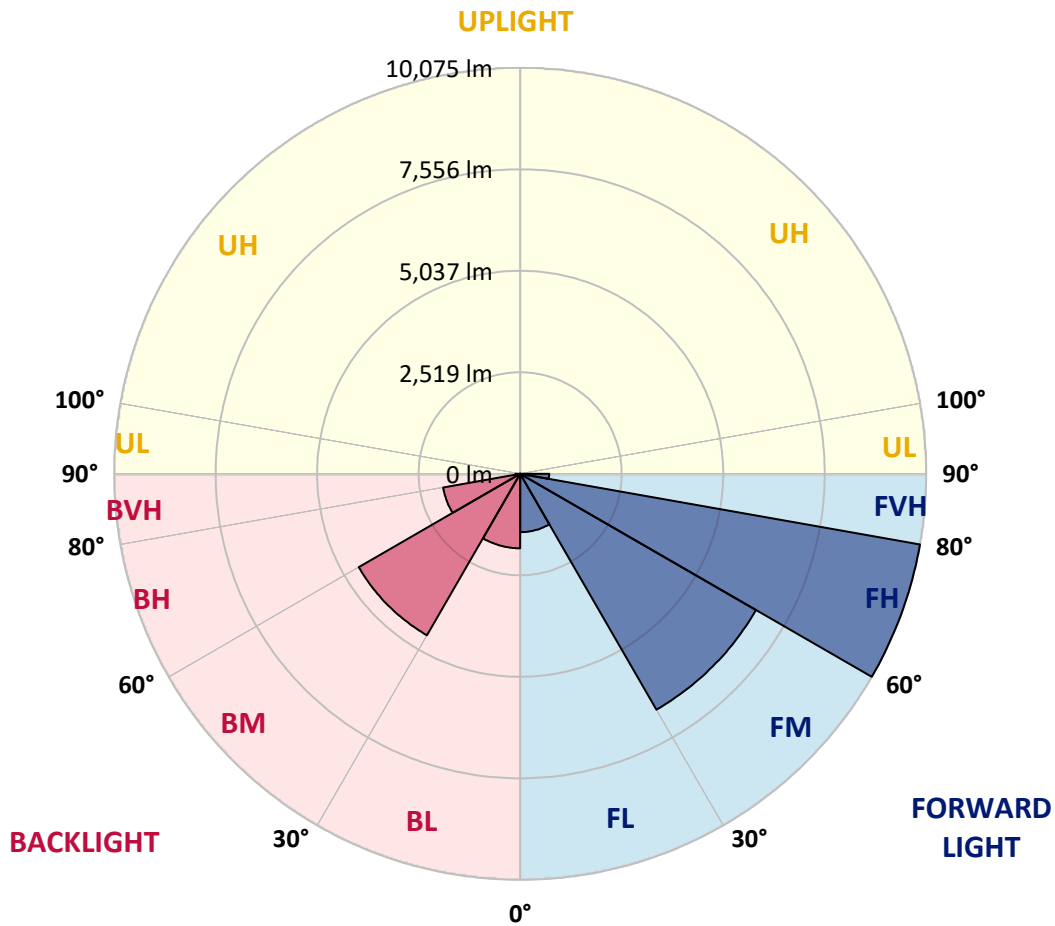
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1448.0	5.3			
FM (30°-60°)	6757.5	24.5			
FH (60°-80°)	10074.8	36.6			G4/12000
FVH (80°-90°)	718.6	2.6			G4/750
BL (0°-30°)	1847.5	6.7	B3/2500		
BM (30°-60°)	4626.3	16.8	B3/5000		
BH (60°-80°)	1940.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	114.7	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°	3147.9	3147.9	3147.9	3147.9	3147.9	3147.9	3147.9	3147.9	3147.9	3147.9	3147.9
2.5°	3099.7	3117.2	3112.8	3107.0	3107.0	3108.4	3107.0	3117.2	3127.4	3137.6	3153.7
5°	3131.8	3149.3	3140.6	3133.3	3127.4	3126.0	3121.6	3120.1	3126.0	3139.1	3161.0
7.5°	3194.6	3212.1	3199.0	3185.8	3174.1	3168.3	3162.5	3153.7	3149.3	3156.6	3187.3
10°	3264.7	3282.2	3266.1	3242.8	3223.8	3216.5	3210.6	3201.9	3196.0	3200.4	3234.0
12.5°	3334.7	3352.3	3330.4	3298.2	3273.4	3269.0	3261.7	3258.8	3257.4	3255.9	3289.5
15°	3400.5	3415.1	3387.3	3349.4	3323.1	3315.8	3308.5	3312.8	3320.1	3328.9	3366.9
17.5°	3451.6	3466.2	3425.3	3375.6	3350.8	3347.9	3343.5	3358.1	3378.6	3400.5	3447.2
20°	3498.3	3512.9	3460.3	3393.2	3364.0	3364.0	3365.4	3396.1	3425.3	3457.4	3521.6
22.5°	3564.0	3575.7	3511.4	3419.4	3377.1	3380.0	3391.7	3422.4	3458.9	3502.7	3591.7
25°	3661.8	3670.6	3591.7	3469.1	3420.9	3429.7	3439.9	3454.5	3489.5	3540.6	3660.3
27.5°	3819.5	3826.8	3723.1	3556.7	3483.7	3498.3	3512.9	3502.7	3518.7	3562.5	3715.8
30°	4041.4	4045.8	3914.4	3693.9	3590.3	3597.6	3600.5	3558.1	3527.5	3562.5	3755.2
32.5°	4304.2	4302.8	4146.5	3860.4	3711.4	3704.1	3679.3	3596.1	3524.6	3555.2	3790.3
35°	4711.6	4695.5	4494.0	4094.0	3848.7	3803.4	3745.0	3638.4	3539.2	3547.9	3820.9
37.5°	5386.1	5336.5	5057.6	4476.5	4053.1	3937.7	3851.6	3707.1	3571.3	3545.0	3857.4
40°	6146.8	6084.0	5777.4	5000.7	4359.7	4174.3	4035.6	3804.9	3623.8	3558.1	3911.5
42.5°	7049.1	6960.0	6630.1	5618.3	4748.1	4479.4	4270.6	3929.0	3701.2	3600.5	3984.5
45°	8157.3	8039.0	7571.8	6314.7	5237.2	4879.5	4600.6	4117.3	3819.5	3682.2	4094.0
47.5°	9277.1	9306.3	8642.0	7111.9	5824.1	5373.0	5013.8	4400.6	3991.8	3813.6	4270.6
50°	10467.1	10487.5	9706.4	7995.2	6489.9	5930.7	5478.1	4717.4	4231.2	4000.5	4534.9
52.5°	11395.7	11398.6	10673.0	8919.4	7183.4	6543.9	5978.9	5079.5	4508.6	4248.7	4886.8
55°	11976.8	11969.5	11350.4	9794.0	7980.6	7187.8	6533.7	5491.2	4847.4	4540.7	5329.2
57.5°	12398.7	12376.8	11817.6	10545.9	8830.4	7948.5	7161.5	5958.5	5247.4	4888.2	5911.7
60°	12559.3	12546.2	12134.5	11195.6	9723.9	8789.5	7885.7	6481.2	5701.5	5298.5	6660.7
62.5°	12620.7	12645.5	12445.4	11824.9	10680.3	9721.0	8681.4	7106.1	6212.5	5762.8	7450.6
65°	12836.7	12882.0	12841.1	12648.4	11760.7	10811.7	9737.1	7849.2	6770.2	6260.7	8275.6
67.5°	13264.5	13309.8	13327.3	13633.9	13080.6	12171.0	11054.0	8774.9	7422.9	6777.5	8896.1
70°	13254.3	13241.2	13550.7	14418.0	14733.3	14053.0	12829.4	9913.7	8201.1	7206.8	8974.9
72.5°	12064.4	11959.3	12690.7	14409.2	16108.7	16018.2	14997.6	11382.5	8872.7	7259.4	7787.9
75°	9050.8	8770.5	10062.7	12985.7	16337.9	17133.7	16375.9	12293.6	8713.6	6414.0	5419.7
77.5°	3870.6	3588.8	5111.6	9613.0	14622.4	16016.7	15111.5	10725.5	6955.7	4241.4	2661.7
80°	1013.3	1011.8	1544.7	4358.2	9944.4	11827.8	10376.6	6926.5	3974.3	1515.5	734.4
82.5°	419.0	408.8	568.0	1695.1	4859.0	6637.4	5416.8	3089.5	1435.2	410.3	243.8
85°	156.2	154.8	275.9	585.5	1714.1	2737.6	1981.3	789.9	357.7	200.0	109.5
87.5°	43.8	42.3	59.9	202.9	417.6	633.7	338.7	129.9	100.7	78.8	32.1
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°	3147.9	3147.9	3147.9	3147.9	3147.9	3147.9	3147.9	3147.9	3147.9	3147.9	3147.9
2.5°	3158.1	3165.4	3178.5	3188.7	3201.9	3216.5	3236.9	3250.1	3263.2	3272.0	3266.1
5°	3171.2	3187.3	3220.9	3254.4	3293.9	3330.4	3372.7	3403.4	3428.2	3435.5	3438.4
7.5°	3200.4	3226.7	3283.6	3340.6	3403.4	3463.2	3524.6	3577.1	3619.5	3635.5	3637.0
10°	3251.5	3286.6	3366.9	3447.2	3530.4	3622.4	3701.2	3777.1	3837.0	3861.8	3863.3
12.5°	3315.8	3359.6	3464.7	3575.7	3691.0	3818.0	3920.2	4013.7	4088.1	4121.7	4121.7
15°	3399.0	3455.9	3590.3	3739.2	3908.5	4085.2	4215.2	4318.8	4402.0	4442.9	4440.0
17.5°	3489.5	3565.4	3734.8	3959.7	4202.0	4434.2	4586.0	4661.9	4748.1	4787.5	4786.0
20°	3577.1	3670.6	3912.9	4240.0	4562.6	4809.4	4932.0	4952.5	4958.3	4962.7	4974.4
22.5°	3667.6	3793.2	4136.3	4593.3	4939.3	5110.2	5127.7	5040.1	4917.4	4860.5	4876.6
25°	3766.9	3933.4	4428.3	4983.1	5263.5	5283.9	5149.6	4936.4	4704.3	4597.7	4613.8
27.5°	3863.3	4095.4	4778.7	5355.5	5497.1	5317.5	5028.4	4726.2	4445.8	4333.4	4346.6
30°	3959.7	4280.9	5165.6	5681.0	5603.7	5234.3	4837.1	4499.9	4218.1	4099.8	4113.0
32.5°	4057.5	4496.9	5611.0	5916.1	5584.7	5057.6	4599.2	4245.8	3997.6	3873.5	3889.6
35°	4168.4	4762.7	6032.9	6044.6	5457.7	4797.7	4285.2	3942.1	3726.0	3626.8	3648.7
37.5°	4313.0	5099.9	6405.2	6076.7	5235.7	4416.6	3895.4	3583.0	3404.8	3359.6	3391.7
40°	4492.6	5505.8	6689.9	6025.6	4907.2	3953.8	3469.1	3219.4	3118.7	3128.9	3163.9
42.5°	4726.2	5959.9	6890.0	5894.2	4450.2	3476.4	3095.3	2984.3	3032.5	3073.4	3111.4
45°	5029.9	6431.5	7014.1	5670.8	3933.4	3071.9	2874.8	2901.1	2937.6	2942.0	2971.2
47.5°	5418.2	6908.9	7095.8	5333.6	3406.3	2787.2	2734.7	2740.5	2733.2	2702.5	2725.9
50°	5903.0	7373.2	7168.8	4886.8	2958.1	2609.1	2539.0	2518.6	2417.8	2318.6	2331.7
52.5°	6454.9	7799.6	7199.5	4332.0	2609.1	2460.2	2346.3	2217.8	2029.5	1998.8	2009.0
55°	7068.1	8193.8	7120.7	3650.1	2315.6	2268.9	2096.6	1941.9	1921.4	1895.1	1899.5
57.5°	7801.0	8618.7	6960.0	2889.4	2014.9	2045.5	1877.6	1895.1	1858.6	1817.8	1810.5
60°	8602.6	9058.1	6678.3	2195.9	1703.9	1766.7	1820.7	1819.2	1809.0	1775.4	1763.7
62.5°	9323.9	9347.2	6123.4	1682.0	1430.8	1550.6	1698.0	1696.6	1687.8	1668.8	1661.5
65°	9753.1	9303.4	5197.8	1324.3	1206.0	1372.4	1531.6	1543.3	1544.7	1543.3	1543.3
67.5°	9677.2	8790.9	3927.5	1054.2	1020.6	1191.4	1366.6	1382.7	1394.3	1397.3	1400.2
70°	8818.7	7665.3	2560.9	841.0	855.6	1032.3	1210.4	1226.4	1236.7	1248.3	1254.2
72.5°	6873.9	5635.8	1465.9	680.4	711.0	895.0	1055.6	1074.6	1080.4	1102.3	1111.1
75°	4188.9	3314.3	791.3	535.8	584.0	765.1	902.3	924.2	934.4	960.7	963.6
77.5°	1991.5	1435.2	451.2	417.6	470.1	624.9	762.1	787.0	759.2	773.8	762.1
80°	673.1	532.9	284.7	318.3	359.2	487.7	610.3	635.1	576.7	573.8	568.0
82.5°	235.1	216.1	181.0	211.7	232.1	349.0	461.4	493.5	429.3	427.8	407.4
85°	92.0	87.6	100.7	115.3	138.7	214.6	303.7	319.8	264.3	213.2	210.2
87.5°	19.0	20.4	24.8	26.3	42.3	74.5	109.5	134.3	106.6	90.5	83.2
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)