

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: STREETWORKS

Report Number: P965212

Luminaire Tested: **NVN-SB3D-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3D-827-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26974.9 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

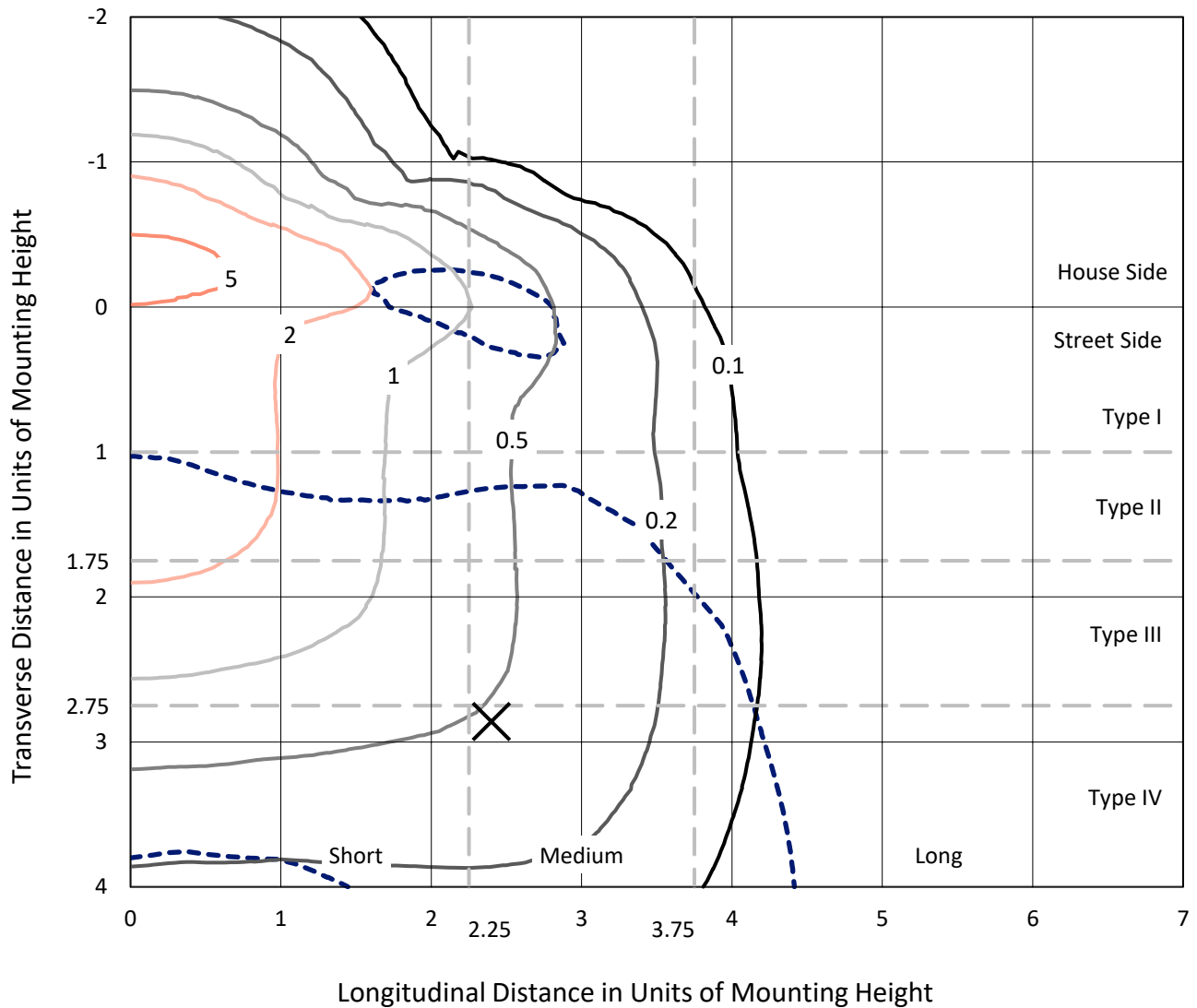
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

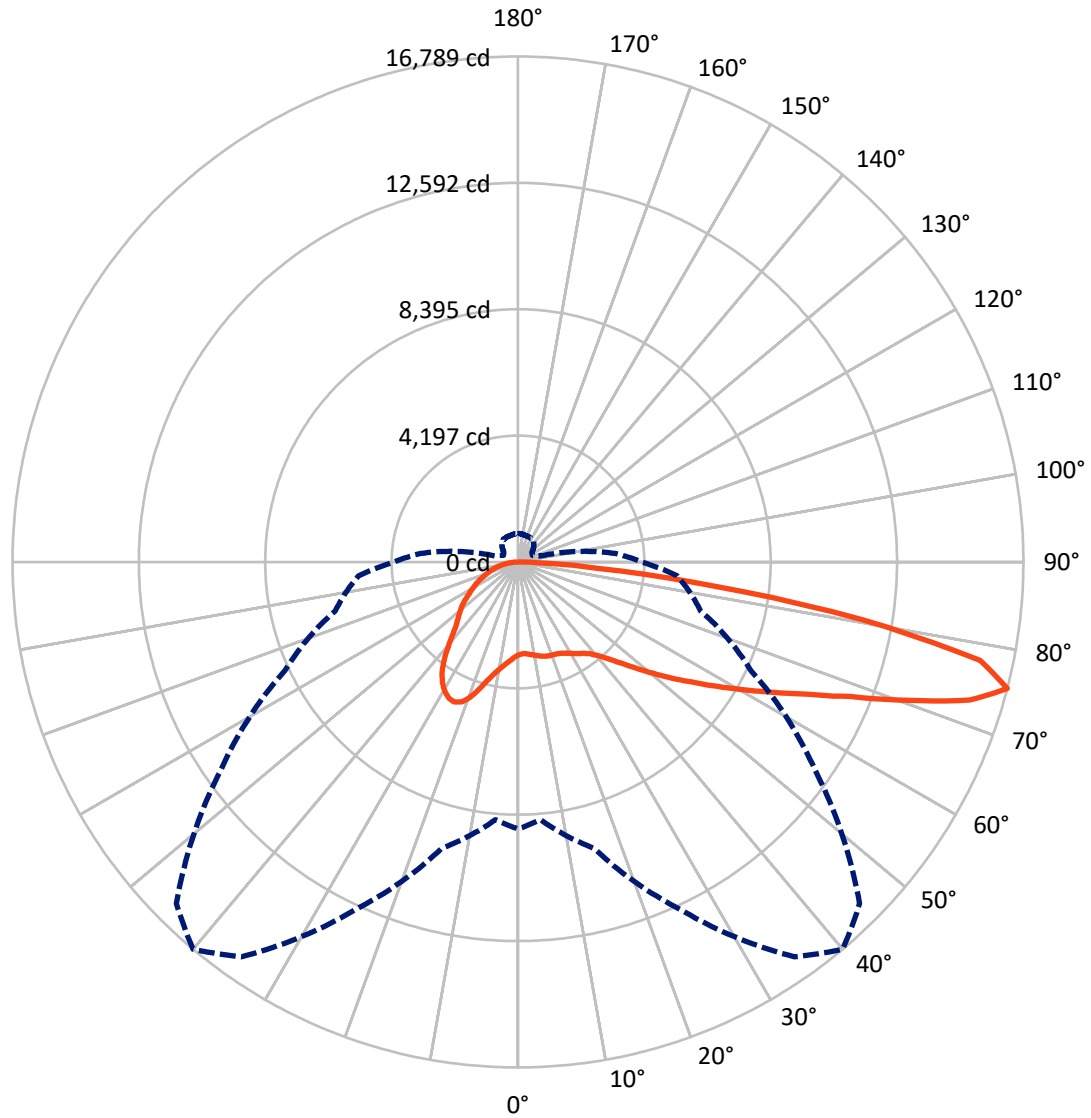
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	8357.7	0.0	8357.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	18617.2	0.0	18617.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	26974.9	0.0	26974.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.9	1.1
10°-20°	1033.8	3.8
20°-30°	1887.6	7.0
30°-40°	2677.1	9.9
40°-50°	3614.9	13.4
50°-60°	4863.0	18.0
60°-70°	6172.3	22.9
70°-80°	5601.7	20.8
80°-90°	816.6	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°	26974.9	100.0
0°-180°	26974.9	100.0



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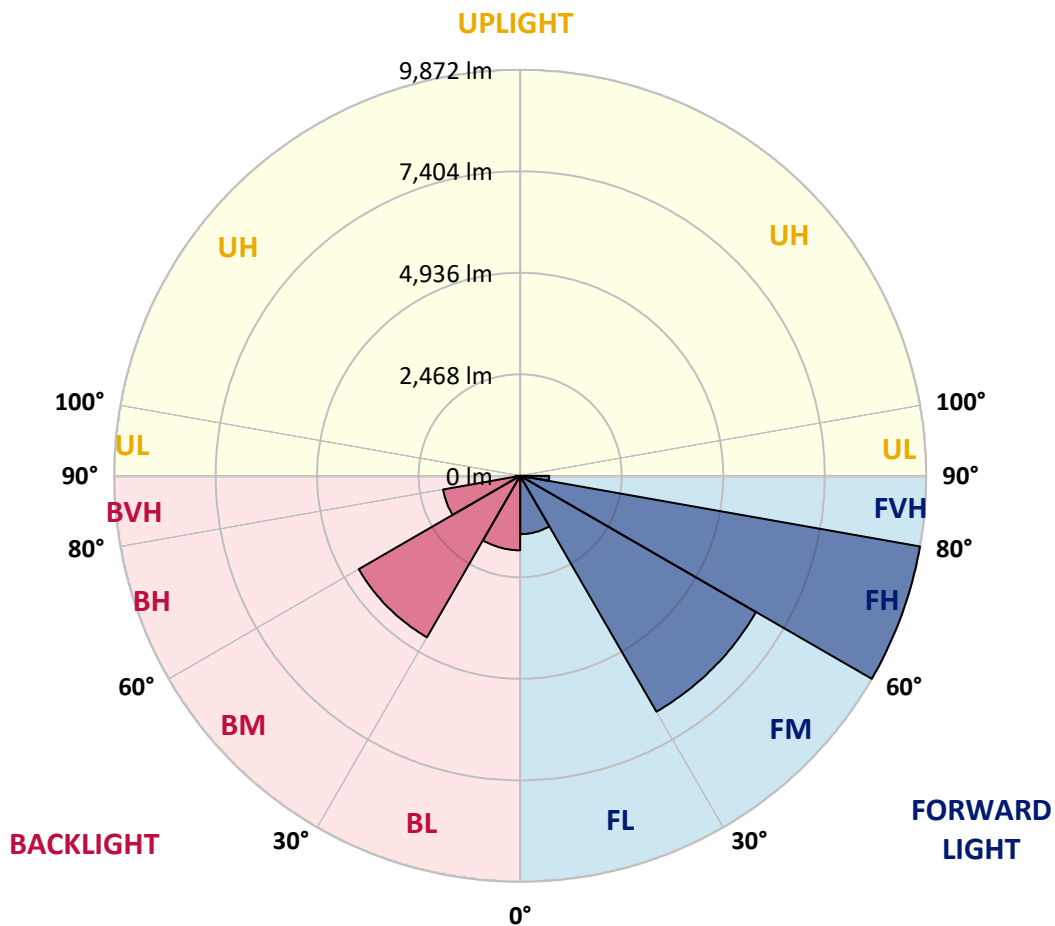
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.9	5.3			
FM (30°-60°)	6621.7	24.5			
FH (60°-80°)	9872.4	36.6			G4/12000
FVH (80°-90°)	704.1	2.6			G4/750
BL (0°-30°)	1810.4	6.7	B3/2500		
BM (30°-60°)	4533.3	16.8	B3/5000		
BH (60°-80°)	1901.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	112.4	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°	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6
2.5°	3037.4	3054.6	3050.3	3044.6	3044.6	3046.0	3044.6	3054.6	3064.5	3074.6	3090.4
5°	3068.8	3086.1	3077.5	3070.3	3064.5	3063.1	3058.9	3057.5	3063.1	3076.0	3097.4
7.5°	3130.5	3147.6	3134.7	3121.8	3110.4	3104.6	3098.9	3090.4	3086.1	3093.2	3123.3
10°	3199.0	3216.2	3200.5	3177.6	3159.0	3151.9	3146.1	3137.5	3131.8	3136.1	3169.0
12.5°	3267.7	3284.9	3263.5	3232.0	3207.6	3203.3	3196.3	3193.4	3192.0	3190.5	3223.4
15°	3332.2	3346.4	3319.3	3282.0	3256.3	3249.1	3242.0	3246.3	3253.5	3262.1	3299.3
17.5°	3382.2	3396.5	3356.5	3307.8	3283.5	3280.6	3276.3	3290.7	3310.6	3332.2	3377.9
20°	3428.0	3442.3	3390.8	3325.0	3296.4	3296.4	3297.8	3327.9	3356.5	3387.9	3450.9
22.5°	3492.4	3503.9	3440.8	3350.7	3309.2	3312.1	3323.6	3353.6	3389.4	3432.3	3519.5
25°	3588.2	3596.8	3519.5	3399.4	3352.2	3360.8	3370.7	3385.1	3419.4	3469.5	3586.8
27.5°	3742.8	3749.9	3648.3	3485.2	3413.7	3428.0	3442.3	3432.3	3448.0	3490.9	3641.2
30°	3960.2	3964.5	3835.8	3619.7	3518.1	3525.3	3528.2	3486.6	3456.6	3490.9	3679.7
32.5°	4217.8	4216.3	4063.2	3782.8	3636.9	3629.7	3605.4	3523.8	3453.7	3483.8	3714.1
35°	4616.9	4601.2	4403.7	4011.7	3771.4	3727.0	3669.8	3565.4	3468.1	3476.6	3744.2
37.5°	5277.9	5229.2	4956.0	4386.6	3971.7	3858.6	3774.3	3632.6	3499.6	3473.7	3780.0
40°	6023.3	5961.8	5661.4	4900.2	4272.1	4090.4	3954.4	3728.4	3551.0	3486.6	3832.9
42.5°	6907.5	6820.2	6496.9	5505.4	4652.7	4389.5	4184.9	3850.0	3626.9	3528.2	3904.4
45°	7993.4	7877.5	7419.7	6187.8	5132.0	4781.4	4508.2	4034.6	3742.8	3608.3	4011.7
47.5°	9090.7	9119.3	8468.3	6969.0	5707.1	5265.0	4913.0	4312.2	3911.6	3737.0	4184.9
50°	10256.8	10276.9	9511.4	7834.6	6359.5	5811.5	5368.0	4622.6	4146.2	3920.1	4443.8
52.5°	11166.8	11169.6	10458.5	8740.3	7039.1	6412.5	5858.8	4977.5	4418.1	4163.3	4788.6
55°	11736.1	11729.0	11122.4	9597.2	7820.2	7043.4	6402.5	5380.9	4750.0	4449.5	5222.1
57.5°	12149.6	12128.2	11580.2	10334.0	8652.9	7788.8	7017.7	5838.7	5142.0	4790.0	5793.0
60°	12307.0	12294.2	11890.6	10970.7	9528.5	8612.9	7727.3	6350.9	5587.0	5192.0	6526.9
62.5°	12367.1	12391.4	12195.4	11587.3	10465.7	9525.7	8507.0	6963.2	6087.7	5647.0	7301.0
65°	12578.8	12623.2	12583.1	12394.3	11524.4	10594.4	9541.4	7691.5	6634.2	6134.9	8109.3
67.5°	12998.0	13042.4	13059.5	13360.1	12817.7	11926.4	10831.9	8598.6	7273.7	6641.4	8717.3
70°	12988.0	12975.2	13278.5	14128.3	14437.3	13770.7	12571.7	9714.5	8036.3	7062.0	8794.6
72.5°	11821.9	11718.9	12435.8	14119.7	15785.1	15696.3	14696.2	11153.8	8694.5	7113.5	7631.4
75°	8869.0	8594.3	9860.5	12724.8	16009.7	16789.4	16046.9	12046.6	8538.5	6285.1	5310.8
77.5°	3792.8	3516.7	5009.0	9419.9	14328.6	15694.9	14807.9	10510.0	6815.9	4156.3	2608.2
80°	992.9	991.5	1513.7	4270.7	9744.6	11590.2	10168.1	6787.3	3894.4	1485.1	719.7
82.5°	410.6	400.6	556.6	1661.0	4761.4	6504.0	5308.0	3027.4	1406.4	402.0	238.9
85°	153.1	151.7	270.4	573.7	1679.7	2682.6	1941.5	774.0	350.5	196.0	107.3
87.5°	42.9	41.5	58.6	198.8	409.2	620.9	331.9	127.3	98.7	77.3	31.5
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°	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6	3084.6
2.5°	3094.7	3101.8	3114.7	3124.7	3137.5	3151.9	3171.9	3184.8	3197.7	3206.2	3200.5
5°	3107.5	3123.3	3156.2	3189.1	3227.7	3263.5	3304.9	3335.0	3359.3	3366.5	3369.4
7.5°	3136.1	3161.9	3217.7	3273.4	3335.0	3393.7	3453.7	3505.3	3546.7	3562.5	3563.9
10°	3186.2	3220.5	3299.3	3377.9	3459.5	3549.6	3626.9	3701.3	3759.9	3784.2	3785.6
12.5°	3249.1	3292.1	3395.1	3503.9	3616.8	3741.4	3841.5	3933.0	4006.0	4038.9	4038.9
15°	3330.7	3386.5	3518.1	3664.1	3830.0	4003.1	4130.4	4232.0	4313.6	4353.7	4350.8
17.5°	3419.4	3493.8	3659.8	3880.1	4117.6	4345.1	4493.9	4568.2	4652.7	4691.3	4689.9
20°	3505.3	3596.8	3834.3	4154.8	4470.9	4712.7	4833.0	4853.0	4858.7	4863.0	4874.5
22.5°	3594.0	3717.0	4053.3	4501.0	4840.2	5007.5	5024.7	4938.9	4818.6	4762.9	4778.5
25°	3691.2	3854.3	4339.3	4883.0	5157.7	5177.8	5046.2	4837.3	4609.7	4505.3	4521.1
27.5°	3785.6	4013.2	4682.7	5247.9	5386.7	5210.7	4927.4	4631.3	4356.6	4246.4	4259.3
30°	3880.1	4194.8	5061.9	5566.9	5491.1	5129.1	4739.9	4409.4	4133.3	4017.5	4030.3
32.5°	3976.0	4406.6	5498.2	5797.3	5472.5	4956.0	4506.7	4160.5	3917.3	3795.7	3811.5
35°	4084.7	4667.0	5911.7	5923.2	5348.0	4701.4	4199.1	3862.9	3651.2	3553.9	3575.3
37.5°	4226.3	4997.5	6276.6	5954.6	5130.5	4328.0	3817.1	3510.9	3336.4	3292.1	3323.6
40°	4402.3	5395.2	6555.5	5904.5	4808.6	3874.4	3399.4	3154.7	3056.0	3066.0	3100.3
42.5°	4631.3	5840.1	6751.6	5775.8	4360.9	3406.5	3033.1	2924.4	2971.6	3011.7	3048.9
45°	4928.8	6302.3	6873.1	5556.9	3854.3	3010.2	2817.1	2842.8	2878.6	2882.9	2911.5
47.5°	5309.4	6770.1	6953.3	5226.4	3337.8	2731.2	2679.8	2685.5	2678.3	2648.3	2671.1
50°	5784.4	7225.1	7024.8	4788.6	2898.6	2556.7	2488.0	2468.0	2369.3	2272.0	2284.8
52.5°	6325.2	7642.9	7054.9	4244.9	2556.7	2410.8	2299.2	2173.2	1988.7	1958.7	1968.6
55°	6926.1	8029.1	6977.6	3576.7	2269.1	2223.3	2054.5	1902.8	1882.8	1857.1	1861.4
57.5°	7644.3	8445.5	6820.2	2831.4	1974.4	2004.4	1839.9	1857.1	1821.3	1781.2	1774.1
60°	8429.8	8876.2	6544.1	2151.8	1669.6	1731.1	1784.1	1782.7	1772.6	1739.7	1728.3
62.5°	9136.5	9159.4	6000.5	1648.2	1402.1	1519.5	1663.9	1662.4	1653.9	1635.3	1628.1
65°	9557.2	9116.6	5093.3	1297.6	1181.7	1344.9	1500.8	1512.3	1513.7	1512.3	1512.3
67.5°	9482.8	8614.3	3848.7	1033.0	1000.1	1167.5	1339.2	1354.8	1366.3	1369.2	1372.1
70°	8641.5	7511.2	2509.5	824.1	838.3	1011.5	1186.0	1201.8	1211.9	1223.2	1229.0
72.5°	6735.8	5522.6	1436.4	666.8	696.8	877.0	1034.4	1053.0	1058.7	1080.1	1088.8
75°	4104.7	3247.7	775.4	525.1	572.3	749.7	884.2	905.7	915.6	941.4	944.2
77.5°	1951.5	1406.4	442.1	409.2	460.7	612.3	746.8	771.1	743.9	758.3	746.8
80°	659.6	522.2	279.0	311.9	352.0	477.9	598.1	622.4	565.1	562.3	556.6
82.5°	230.3	211.8	177.4	207.5	227.4	341.9	452.1	483.6	420.7	419.2	399.1
85°	90.1	85.8	98.7	113.1	135.9	210.3	297.6	313.3	258.9	208.9	206.0
87.5°	18.6	20.0	24.3	25.7	41.5	73.0	107.3	131.6	104.4	88.7	81.6
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)