

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: P884424

Luminaire Tested: **NVN-SB5B-727-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884424
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: STREETWORKS
Catalog Number: NVN-SB5B-727-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 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: 25669 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

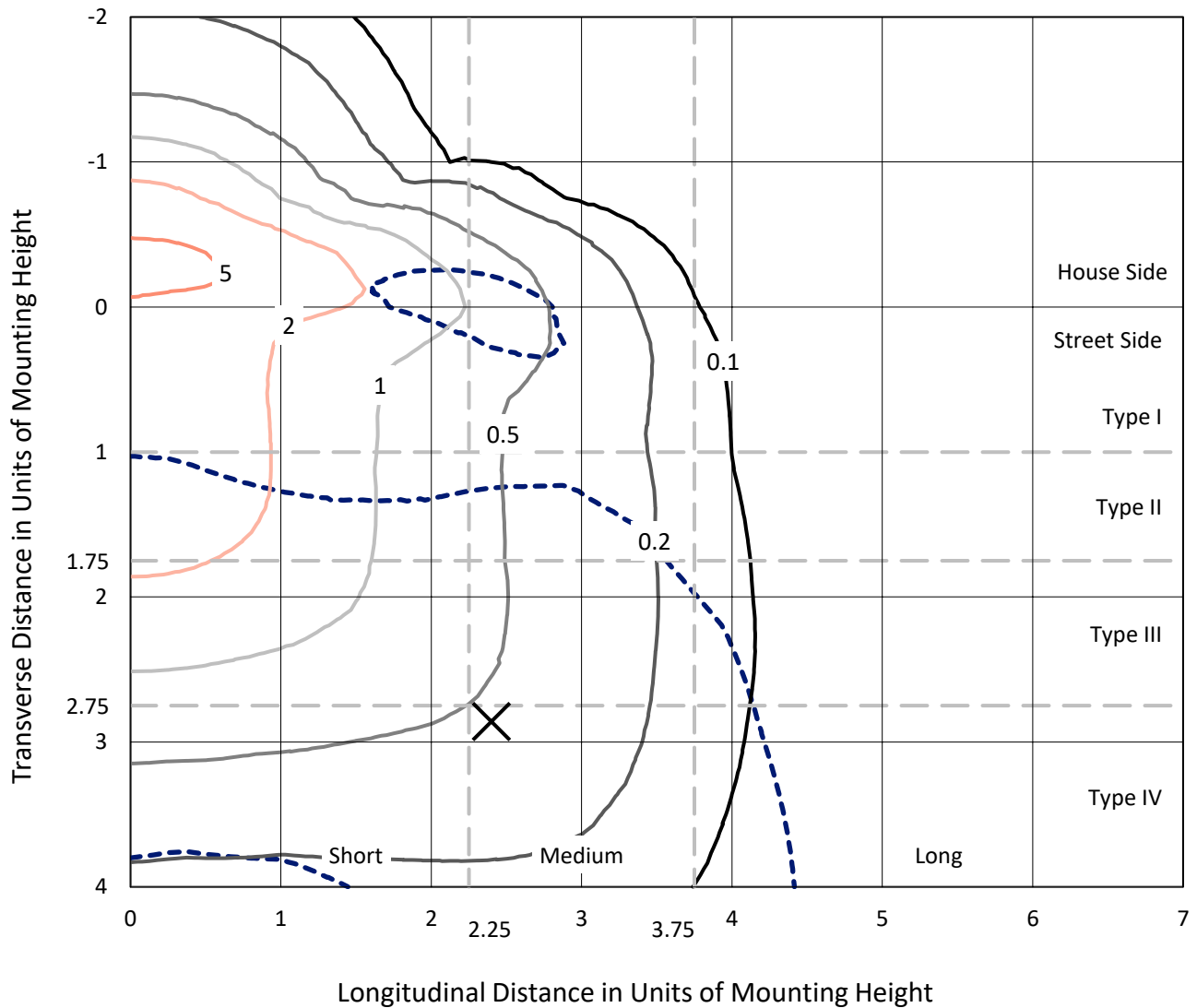
Input Watts (W): 182.7
Input Voltage (V): 120.0
Input Current (Ain): 1.547
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 11.125
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

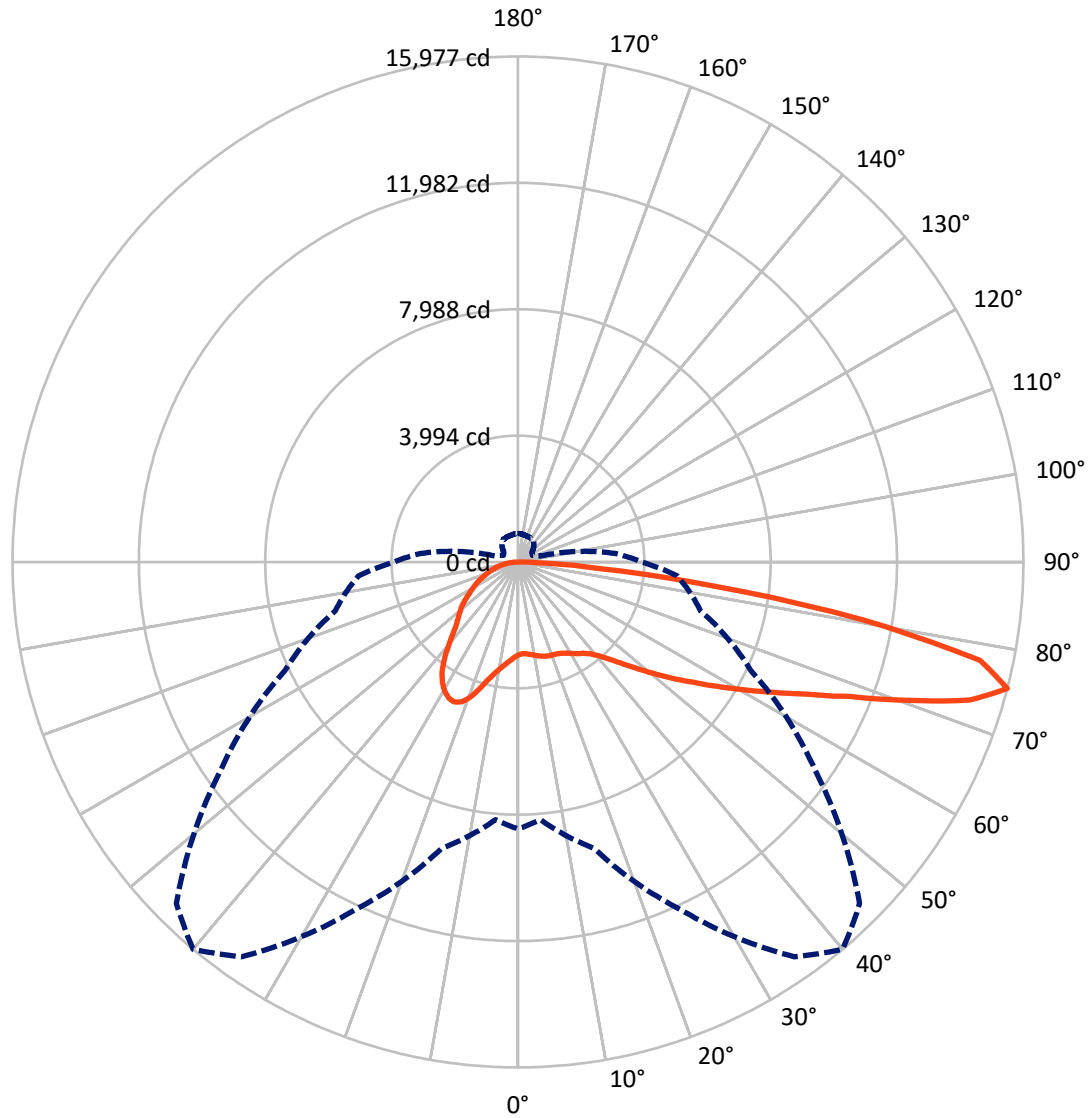
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	7953.1	0.0	7953.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	17715.9	0.0	17715.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	25669.0	0.0	25669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.0	1.1
10°-20°	983.7	3.8
20°-30°	1796.2	7.0
30°-40°	2547.5	9.9
40°-50°	3439.9	13.4
50°-60°	4627.6	18.0
60°-70°	5873.5	22.9
70°-80°	5330.5	20.8
80°-90°	777.0	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°	25669.0	100.0
0°-180°	25669.0	100.0

Coefficient of Utilization



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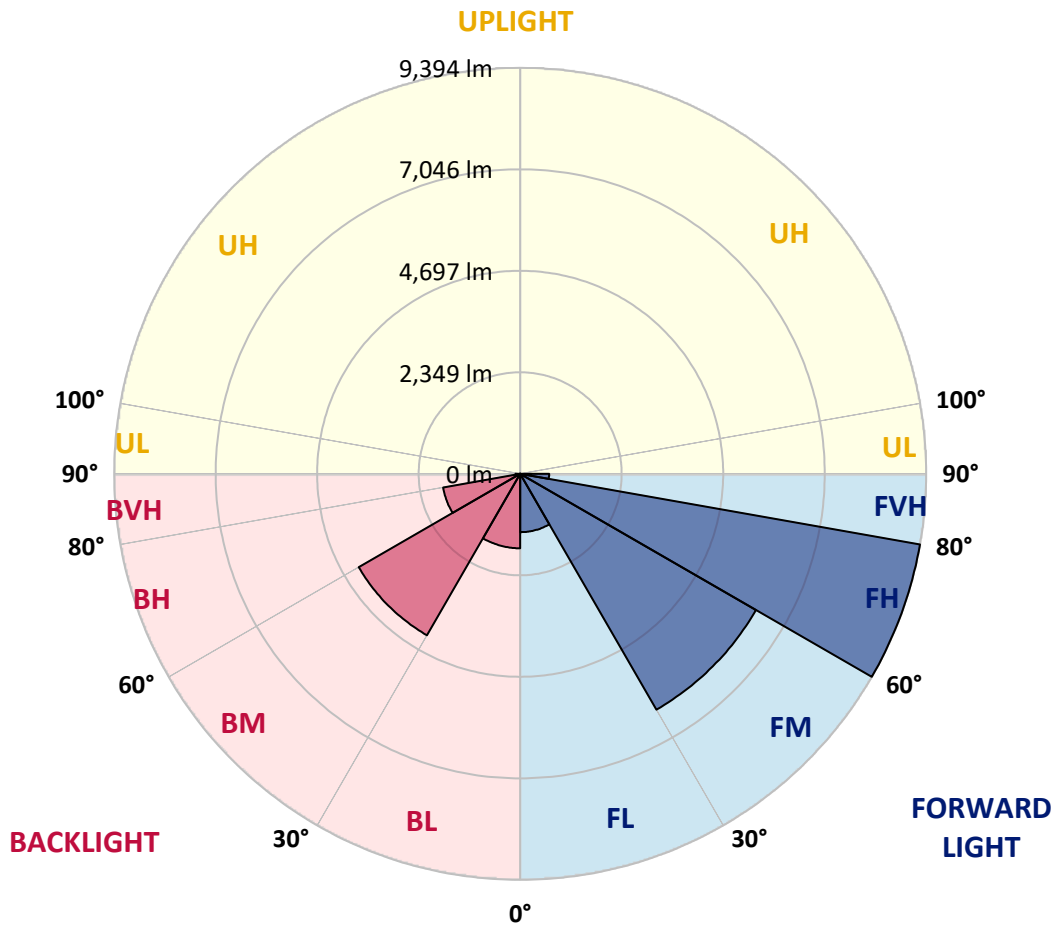
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1350.2	5.3			
FM (30°-60°)	6301.2	24.5			
FH (60°-80°)	9394.5	36.6			G4/12000
FVH (80°-90°)	670.0	2.6			G4/750
BL (0°-30°)	1722.7	6.7	B3/2500		
BM (30°-60°)	4313.8	16.8	B3/5000		
BH (60°-80°)	1809.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	107.0	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°	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3
2.5°	2890.4	2906.7	2902.6	2897.2	2897.2	2898.5	2897.2	2906.7	2916.2	2925.8	2940.7
5°	2920.3	2936.6	2928.5	2921.7	2916.2	2914.9	2910.8	2909.4	2914.9	2927.1	2947.5
7.5°	2978.9	2995.2	2982.9	2970.7	2959.8	2954.3	2948.9	2940.7	2936.6	2943.5	2972.0
10°	3044.2	3060.5	3045.6	3023.8	3006.1	2999.3	2993.8	2985.7	2980.2	2984.3	3015.6
12.5°	3109.5	3125.9	3105.5	3075.5	3052.4	3048.3	3041.5	3038.8	3037.4	3036.0	3067.3
15°	3170.8	3184.4	3158.6	3123.2	3098.7	3091.9	3085.0	3089.1	3095.9	3104.1	3139.5
17.5°	3218.5	3232.1	3194.0	3147.7	3124.5	3121.8	3117.7	3131.3	3150.4	3170.8	3214.4
20°	3262.0	3275.6	3226.6	3164.0	3136.8	3136.8	3138.1	3166.7	3194.0	3223.9	3283.8
22.5°	3323.3	3334.2	3274.3	3188.5	3149.0	3151.8	3162.6	3191.2	3225.3	3266.1	3349.2
25°	3414.5	3422.7	3349.2	3234.8	3189.9	3198.0	3207.6	3221.2	3253.9	3301.5	3413.2
27.5°	3561.6	3568.4	3471.7	3316.5	3248.4	3262.0	3275.6	3266.1	3281.1	3321.9	3464.9
30°	3768.5	3772.6	3650.0	3444.5	3347.8	3354.6	3357.3	3317.9	3289.3	3321.9	3501.6
32.5°	4013.6	4012.2	3866.5	3599.7	3460.8	3454.0	3430.9	3353.2	3286.5	3315.1	3534.3
35°	4393.4	4378.4	4190.5	3817.5	3588.8	3546.6	3492.1	3392.7	3300.2	3308.3	3562.9
37.5°	5022.4	4976.1	4716.1	4174.2	3779.4	3671.8	3591.5	3456.7	3330.1	3305.6	3596.9
40°	5731.7	5673.2	5387.3	4663.0	4065.3	3892.4	3763.0	3547.9	3379.1	3317.9	3647.3
42.5°	6573.1	6490.0	6182.3	5238.9	4427.4	4176.9	3982.2	3663.7	3451.3	3357.3	3715.4
45°	7606.4	7496.1	7060.5	5888.3	4883.5	4550.0	4289.9	3839.3	3561.6	3433.6	3817.5
47.5°	8650.6	8677.9	8058.4	6631.6	5430.8	5010.1	4675.2	4103.4	3722.2	3556.1	3982.2
50°	9760.2	9779.3	9050.9	7455.3	6051.6	5530.2	5108.2	4398.8	3945.5	3730.4	4228.7
52.5°	10626.1	10628.8	9952.2	8317.1	6698.3	6102.0	5575.1	4736.5	4204.2	3961.8	4556.8
55°	11168.0	11161.2	10583.9	9132.6	7441.7	6702.4	6092.5	5120.4	4520.0	4234.1	4969.3
57.5°	11561.4	11541.0	11019.6	9833.7	8234.0	7411.7	6677.9	5556.1	4893.0	4558.1	5512.5
60°	11711.2	11698.9	11315.0	10439.6	9067.3	8195.9	7353.2	6043.5	5316.5	4940.7	6210.9
62.5°	11768.4	11791.5	11605.0	11026.4	9959.0	9064.5	8095.2	6626.2	5793.0	5373.6	6947.5
65°	11969.9	12012.1	11973.9	11794.2	10966.5	10081.5	9079.5	7319.2	6313.0	5837.9	7716.7
67.5°	12368.8	12411.0	12427.3	12713.2	12197.2	11349.0	10307.5	8182.3	6921.6	6319.8	8295.3
70°	12359.2	12347.0	12635.6	13444.3	13738.4	13103.9	11963.1	9244.2	7647.3	6720.1	8368.8
72.5°	11249.7	11151.6	11833.7	13436.1	15020.9	14936.5	13984.8	10613.9	8273.5	6769.1	7262.0
75°	8439.6	8178.2	9383.1	12108.7	15234.6	15976.6	15270.0	11463.4	8125.1	5980.8	5053.7
77.5°	3609.2	3346.4	4766.4	8963.8	13634.9	14935.1	14091.0	10001.2	6485.9	3955.0	2481.9
80°	944.8	943.5	1440.4	4063.9	9272.8	11029.1	9675.8	6458.7	3705.9	1413.2	684.8
82.5°	390.7	381.2	529.6	1580.6	4530.9	6189.1	5051.0	2880.8	1338.3	382.6	227.4
85°	145.7	144.3	257.3	545.9	1598.3	2552.7	1847.5	736.5	333.6	186.5	102.1
87.5°	40.8	39.5	55.8	189.2	389.4	590.9	315.9	121.2	93.9	73.5	30.0
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°	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3	2935.3
2.5°	2944.8	2951.6	2963.9	2973.4	2985.7	2999.3	3018.3	3030.6	3042.8	3051.0	3045.6
5°	2957.1	2972.0	3003.4	3034.7	3071.4	3105.5	3144.9	3173.5	3196.7	3203.5	3206.2
7.5°	2984.3	3008.8	3061.9	3115.0	3173.5	3229.4	3286.5	3335.6	3375.0	3390.0	3391.4
10°	3031.9	3064.6	3139.5	3214.4	3292.0	3377.8	3451.3	3522.1	3577.9	3601.0	3602.4
12.5°	3091.9	3132.7	3230.7	3334.2	3441.7	3560.2	3655.5	3742.6	3812.1	3843.4	3843.4
15°	3169.5	3222.6	3347.8	3486.7	3644.6	3809.3	3930.5	4027.2	4104.8	4142.9	4140.2
17.5°	3253.9	3324.7	3482.6	3692.3	3918.3	4134.7	4276.3	4347.1	4427.4	4464.2	4462.8
20°	3335.6	3422.7	3648.7	3953.6	4254.5	4484.6	4599.0	4618.0	4623.5	4627.6	4638.5
22.5°	3420.0	3537.0	3857.0	4283.1	4605.8	4765.1	4781.4	4699.7	4585.4	4532.3	4547.2
25°	3512.5	3667.7	4129.3	4646.6	4908.0	4927.1	4801.8	4603.1	4386.6	4287.2	4302.2
27.5°	3602.4	3818.9	4456.0	4993.8	5125.9	4958.4	4688.8	4407.0	4145.6	4040.8	4053.0
30°	3692.3	3991.8	4816.8	5297.4	5225.2	4880.8	4510.5	4196.0	3933.2	3822.9	3835.2
32.5°	3783.5	4193.3	5232.0	5516.6	5207.5	4716.1	4288.6	3959.1	3727.6	3611.9	3626.9
35°	3886.9	4441.0	5625.5	5636.4	5089.1	4473.7	3995.9	3675.9	3474.4	3381.8	3402.3
37.5°	4021.7	4755.5	5972.7	5666.4	4882.2	4118.4	3632.3	3341.0	3174.9	3132.7	3162.6
40°	4189.2	5134.0	6238.2	5618.7	4575.8	3686.8	3234.8	3002.0	2908.1	2917.6	2950.3
42.5°	4407.0	5557.4	6424.7	5496.2	4149.7	3241.6	2886.3	2782.8	2827.7	2865.9	2901.2
45°	4690.2	5997.2	6540.4	5287.9	3667.7	2864.5	2680.7	2705.2	2739.2	2743.3	2770.5
47.5°	5052.3	6442.4	6616.6	4973.4	3176.3	2599.0	2550.0	2555.4	2548.6	2520.0	2541.8
50°	5504.3	6875.3	6684.7	4556.8	2758.3	2432.9	2367.6	2348.5	2254.6	2162.0	2174.2
52.5°	6019.0	7272.9	6713.3	4039.4	2432.9	2294.0	2187.8	2068.0	1892.4	1863.8	1873.4
55°	6590.8	7640.5	6639.8	3403.6	2159.3	2115.7	1955.0	1810.7	1791.7	1767.2	1771.2
57.5°	7274.2	8036.6	6490.0	2694.3	1878.8	1907.4	1750.8	1767.2	1733.1	1695.0	1688.2
60°	8021.7	8446.4	6227.3	2047.6	1588.8	1647.4	1697.7	1696.4	1686.8	1655.5	1644.6
62.5°	8694.2	8716.0	5709.9	1568.4	1334.2	1445.9	1583.4	1582.0	1573.8	1556.1	1549.3
65°	9094.5	8675.2	4846.8	1234.8	1124.6	1279.8	1428.2	1439.1	1440.4	1439.1	1439.1
67.5°	9023.7	8197.3	3662.3	983.0	951.7	1110.9	1274.3	1289.3	1300.2	1302.9	1305.6
70°	8223.2	7147.6	2388.0	784.2	797.8	962.5	1128.6	1143.6	1153.1	1164.0	1169.5
72.5°	6409.7	5255.2	1366.9	634.4	663.0	834.6	984.3	1002.0	1007.5	1027.9	1036.1
75°	3906.0	3090.5	737.9	499.7	544.6	713.4	841.4	861.8	871.3	895.8	898.6
77.5°	1857.0	1338.3	420.7	389.4	438.4	582.7	710.7	733.8	708.0	721.6	710.7
80°	627.6	496.9	265.5	296.8	334.9	454.7	569.1	592.2	537.8	535.0	529.6
82.5°	219.2	201.5	168.8	197.4	216.5	325.4	430.2	460.2	400.3	398.9	379.8
85°	85.8	81.7	93.9	107.6	129.3	200.1	283.2	298.2	246.4	198.8	196.0
87.5°	17.7	19.1	23.1	24.5	39.5	69.4	102.1	125.3	99.4	84.4	77.6
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)