

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: P968384

Luminaire Tested: **NVN-SB5B-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5B-827-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25692.7 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

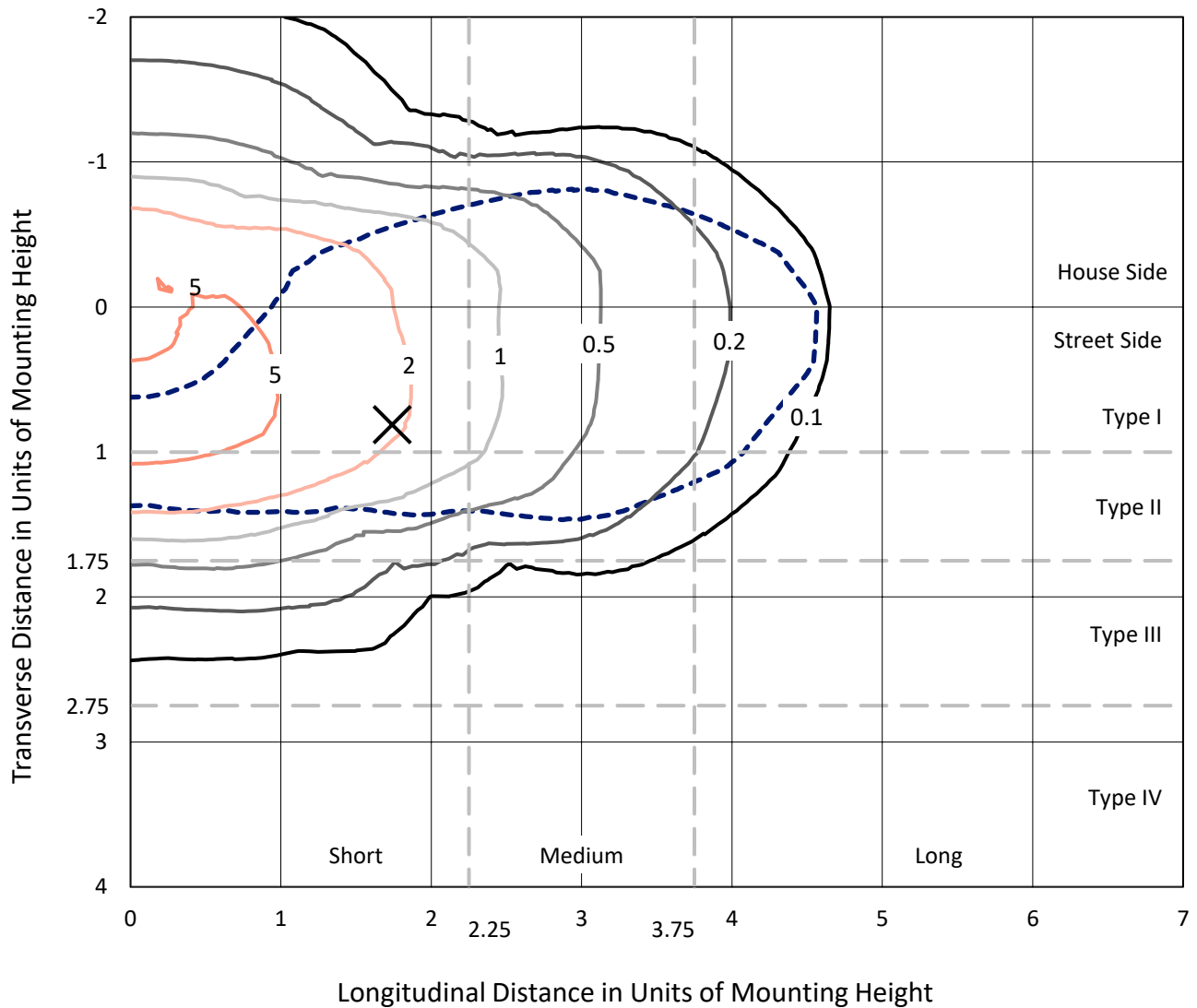
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

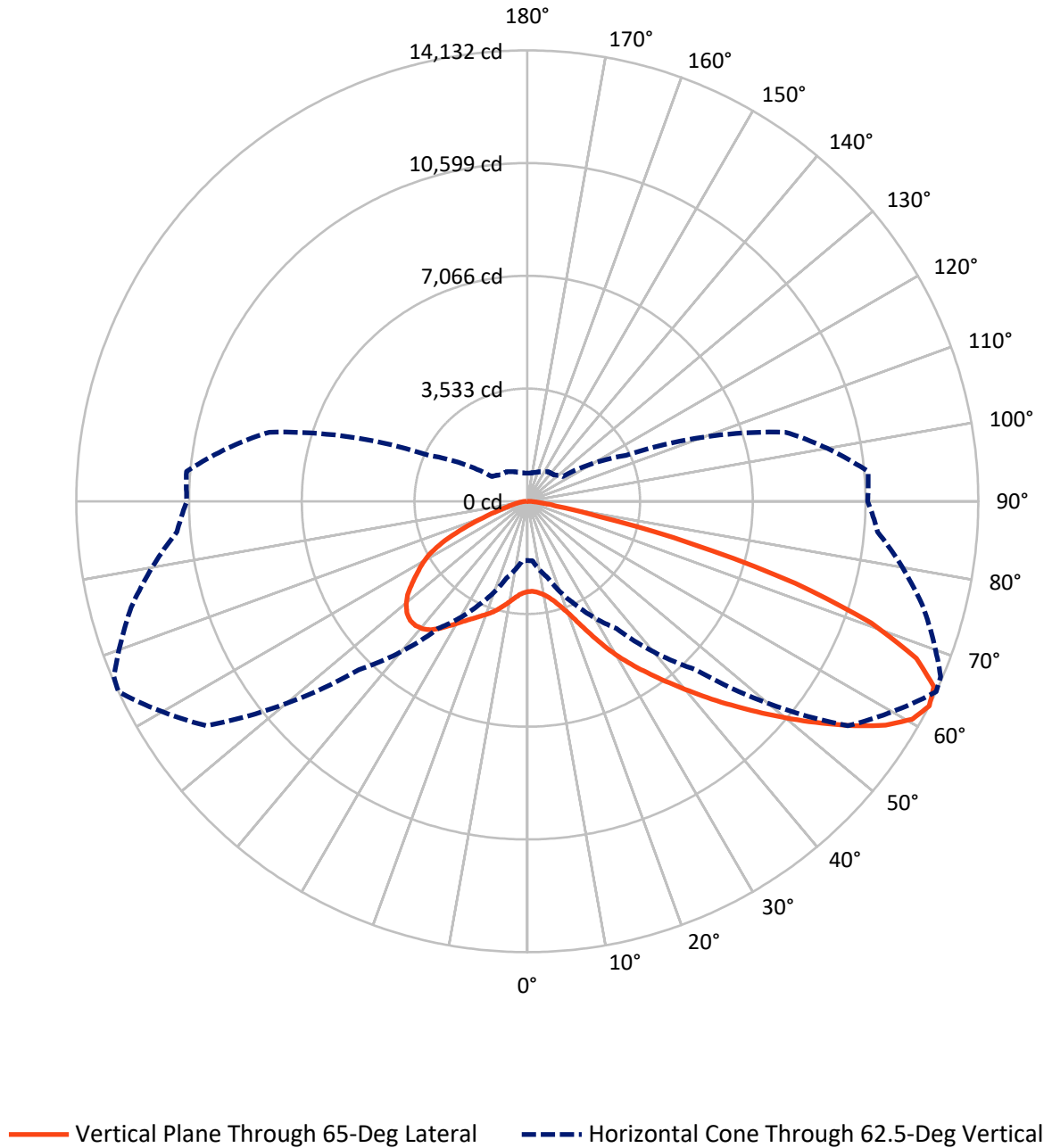
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8107.5	0.0	8107.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	17585.2	0.0	17585.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	25692.7	0.0	25692.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.3	1.1
10°-20°	957.2	3.7
20°-30°	1940.8	7.6
30°-40°	3358.6	13.1
40°-50°	5082.5	19.8
50°-60°	5959.0	23.2
60°-70°	4995.9	19.4
70°-80°	2758.1	10.7
80°-90°	358.3	1.4
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°	25692.7	100.0
0°-180°	25692.7	100.0



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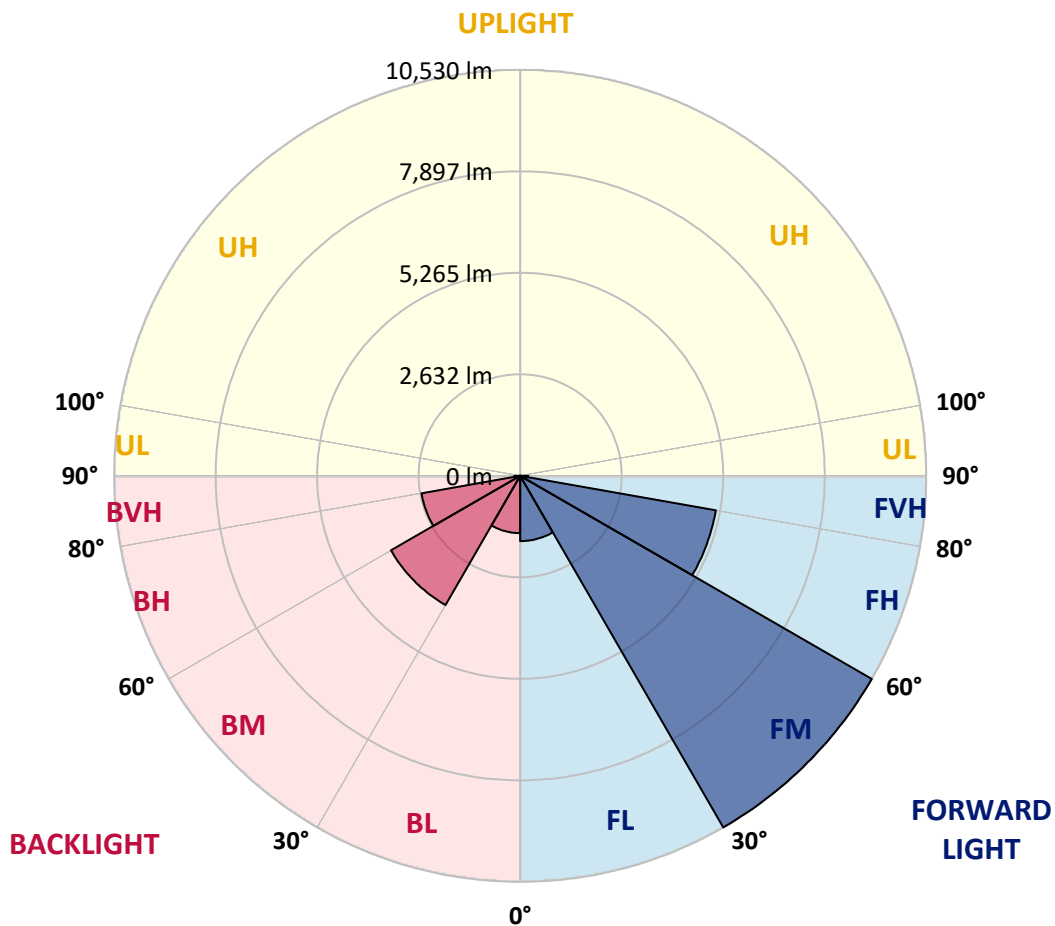
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1693.5	6.6			
FM (30°-60°)	10529.7	41.0			
FH (60°-80°)	5153.2	20.1			G3/7500
FVH (80°-90°)	208.8	0.8			G2/225
BL (0°-30°)	1486.8	5.8	B3/2500		
BM (30°-60°)	3870.4	15.1	B3/5000		
BH (60°-80°)	2600.8	10.1	B4/5000		G4/5000
BVH (80°-90°)	149.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2831.3	2831.3	2831.3	2831.3	2831.3	2831.3	2831.3	2831.3	2831.3	2831.3	2831.3
2.5°	2812.6	2804.6	2811.3	2811.3	2813.9	2812.6	2821.9	2824.6	2828.6	2836.6	2836.6
5°	2784.5	2783.2	2795.3	2805.9	2816.6	2825.9	2837.9	2855.2	2857.9	2867.2	2879.2
7.5°	2775.2	2767.2	2785.8	2799.3	2824.6	2847.2	2879.2	2908.5	2920.5	2924.5	2947.2
10°	2847.2	2833.9	2851.2	2859.2	2880.6	2903.2	2940.5	2987.2	3000.5	3016.5	3041.8
12.5°	2969.8	2955.2	2980.5	2992.5	3012.5	3032.5	3057.8	3103.2	3109.8	3139.2	3163.1
15°	3137.8	3120.5	3136.5	3151.2	3184.5	3203.1	3228.4	3272.4	3272.4	3295.1	3312.4
17.5°	3365.7	3343.0	3355.0	3360.4	3381.8	3409.8	3452.4	3491.0	3511.0	3503.0	3479.1
20°	3705.7	3677.7	3677.7	3650.9	3643.0	3665.6	3721.7	3775.0	3796.3	3755.0	3696.4
22.5°	4216.1	4176.2	4153.5	4062.9	4026.9	4029.6	4085.5	4150.8	4168.2	4094.9	3963.0
25°	4865.4	4802.6	4772.0	4638.7	4557.5	4486.7	4530.7	4614.8	4638.7	4548.0	4334.8
27.5°	5514.5	5518.5	5489.2	5329.2	5194.6	5065.2	5042.6	5130.5	5156.0	5053.2	4789.3
30°	6424.9	6330.3	6274.2	6082.3	5890.4	5709.0	5615.8	5651.7	5658.4	5535.8	5229.2
32.5°	7210.1	7186.0	7066.0	6898.0	6651.5	6367.6	6211.6	6154.3	6143.6	5969.0	5605.1
35°	8104.5	8091.1	7964.5	7764.5	7498.0	7103.4	6822.1	6658.2	6644.9	6399.6	5977.0
37.5°	9013.5	9013.5	8889.5	8671.0	8395.1	7901.8	7473.9	7214.1	7171.3	6851.4	6355.6
40°	9738.6	9694.7	9717.3	9625.4	9309.5	8785.6	8197.7	7820.5	7763.1	7379.3	6758.1
42.5°	10150.6	10135.9	10271.8	10374.4	10245.2	9826.6	8994.9	8477.7	8397.7	7960.5	7222.0
45°	10242.5	10226.5	10469.1	10845.0	11026.3	10854.3	9861.3	9169.4	9072.2	8568.3	7719.2
47.5°	10030.5	9998.6	10354.4	10947.6	11528.8	11831.4	10799.7	9919.9	9778.6	9160.1	8229.7
50°	9393.4	9362.8	9901.3	10689.0	11698.1	12495.3	11818.0	10715.8	10499.8	9794.6	8745.6
52.5°	8008.4	8023.1	8866.9	9949.3	11475.5	12908.4	12695.1	11554.1	11294.2	10443.8	9229.4
55°	6238.3	6270.2	7307.3	8499.0	10585.1	12845.8	13293.6	12417.9	12159.3	11054.3	9729.3
57.5°	4466.7	4608.1	5579.8	6759.5	8874.9	11852.7	13424.3	13239.0	12988.4	11720.8	10218.5
60°	2895.2	2920.5	3920.2	5109.2	6758.1	10087.8	13159.1	13861.5	13665.6	12400.6	10627.7
62.5°	1855.5	1872.8	2481.9	3573.7	4864.0	7463.2	12266.0	14132.1	14072.1	12849.8	11021.0
65°	1363.7	1350.3	1667.6	2362.0	3276.4	4602.8	10531.8	14001.5	14120.1	13131.1	11346.2
67.5°	1138.4	1119.7	1275.6	1635.6	2414.0	2614.0	7792.6	13152.4	13586.9	13099.1	11584.8
70°	1037.1	1021.0	1115.7	1214.3	1883.4	1750.2	3928.2	11434.2	12103.3	12735.1	11546.1
72.5°	878.4	850.4	979.7	1078.4	1464.9	1342.3	1623.6	8782.9	9598.7	11568.8	11002.2
75°	681.1	662.5	773.2	949.0	1101.1	1047.8	1026.3	5333.2	6223.6	8946.8	9625.4
77.5°	539.9	514.6	615.8	739.8	990.4	790.5	747.8	2296.7	3179.1	5711.7	7202.1
80°	406.5	383.9	467.9	585.2	761.2	595.8	483.9	937.1	1198.3	2893.9	3621.6
82.5°	289.3	269.3	326.6	429.2	511.9	534.5	297.2	525.2	590.5	1115.7	809.1
85°	185.3	173.3	218.6	269.3	325.2	343.9	181.3	274.6	301.2	459.9	337.2
87.5°	101.3	82.6	117.3	125.3	150.7	137.2	86.6	99.9	107.9	166.7	142.6
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°	2831.3	2831.3	2831.3	2831.3	2831.3	2831.3	2831.3	2831.3	2831.3	2831.3	2831.3
2.5°	2841.9	2845.9	2859.2	2863.2	2872.6	2884.6	2892.5	2900.5	2900.5	2908.5	2908.5
5°	2880.6	2889.9	2917.9	2932.5	2956.5	2980.5	2995.2	3012.5	3023.1	3028.5	3031.1
7.5°	2955.2	2969.8	3009.8	3035.1	3076.4	3109.8	3132.5	3156.5	3161.8	3176.5	3171.1
10°	3056.4	3073.8	3119.2	3167.1	3216.4	3257.8	3279.1	3296.4	3303.1	3305.7	3299.1
12.5°	3172.5	3197.8	3256.4	3315.1	3367.0	3403.1	3408.4	3404.4	3385.8	3369.7	3369.7
15°	3315.1	3337.7	3403.1	3467.1	3517.7	3524.4	3491.0	3469.7	3447.1	3443.1	3443.1
17.5°	3485.7	3497.7	3557.7	3620.3	3624.3	3601.6	3552.3	3532.4	3511.0	3496.4	3497.7
20°	3684.4	3680.4	3723.0	3749.7	3721.7	3652.3	3577.7	3544.3	3523.0	3505.7	3507.0
22.5°	3921.5	3890.9	3885.6	3878.9	3804.3	3658.9	3557.7	3515.0	3481.7	3457.7	3465.7
25°	4266.9	4149.5	4068.2	4022.9	3854.9	3623.0	3493.7	3399.1	3336.4	3295.1	3311.1
27.5°	4698.7	4501.4	4296.2	4185.5	3854.9	3549.7	3339.0	3185.8	3083.2	3040.5	3061.8
30°	5110.5	4904.0	4601.4	4381.5	3845.6	3429.8	3089.9	2876.6	2756.5	2713.9	2739.2
32.5°	5462.5	5237.2	4925.3	4596.1	3822.9	3235.1	2780.5	2544.7	2428.6	2378.0	2403.3
35°	5789.1	5549.1	5250.6	4832.0	3763.0	2949.8	2440.6	2260.7	2131.4	2050.1	2076.8
37.5°	6123.7	5838.4	5558.5	5045.3	3654.9	2616.6	2179.4	2026.1	1874.1	1764.8	1794.2
40°	6487.5	6146.3	5887.7	5171.9	3477.7	2299.4	1976.8	1836.8	1675.6	1559.5	1582.2
42.5°	6912.8	6515.5	6254.2	5237.2	3235.1	2074.1	1844.8	1707.5	1555.5	1460.9	1479.6
45°	7356.6	6922.1	6588.8	5235.9	2964.5	1968.8	1802.2	1666.2	1498.2	1399.6	1415.6
47.5°	7821.9	7347.3	6878.1	5150.6	2729.9	1983.5	1778.2	1576.9	1391.6	1295.6	1308.9
50°	8288.4	7812.6	7158.0	4990.6	2629.9	1951.5	1688.9	1451.6	1233.0	1146.4	1151.7
52.5°	8750.9	8307.0	7399.3	4762.7	2528.7	1832.8	1574.2	1288.9	1167.7	1107.7	1107.7
55°	9216.1	8796.2	7661.9	4430.8	2275.4	1694.2	1382.3	1227.6	1115.7	1061.1	1055.8
57.5°	9682.7	9361.4	7911.2	4098.9	1956.8	1523.6	1276.9	1153.0	1063.7	1017.0	1009.0
60°	10167.9	10007.9	8168.4	3793.6	1642.3	1304.9	1199.7	1093.1	1002.3	950.4	946.4
62.5°	10667.7	10719.8	8369.7	3400.4	1353.0	1171.7	1130.4	1021.0	933.1	883.8	882.4
65°	11171.6	11406.2	8501.7	2855.2	1097.1	1045.1	1055.8	942.4	853.1	810.5	809.1
67.5°	11551.4	11900.8	8464.3	2160.7	899.7	925.1	962.4	859.8	775.8	742.5	743.8
70°	11594.1	11842.0	8096.5	1479.6	753.2	807.8	858.4	778.5	691.8	667.8	669.1
72.5°	11026.3	11042.3	7071.4	966.4	637.1	709.1	749.2	695.8	611.8	587.8	586.5
75°	9537.3	9132.1	5191.9	637.1	533.2	609.2	646.5	609.2	527.9	533.2	514.6
77.5°	7226.0	6467.5	3152.5	453.3	445.3	511.9	562.5	535.9	466.6	523.9	461.2
80°	3723.0	3499.0	1406.3	338.6	351.9	409.2	462.6	427.8	369.2	351.9	321.2
82.5°	853.1	991.7	554.5	242.6	254.6	294.6	353.2	321.2	265.3	224.0	221.3
85°	298.6	326.6	245.3	152.0	149.3	184.0	240.0	214.6	180.0	143.9	152.0
87.5°	94.6	123.9	91.9	61.3	64.0	82.6	110.6	101.3	83.9	54.6	57.3
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)