

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: P885114

Luminaire Tested: **NVN-SB6B-730-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885114
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-SB6B-730-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 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: 33351 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

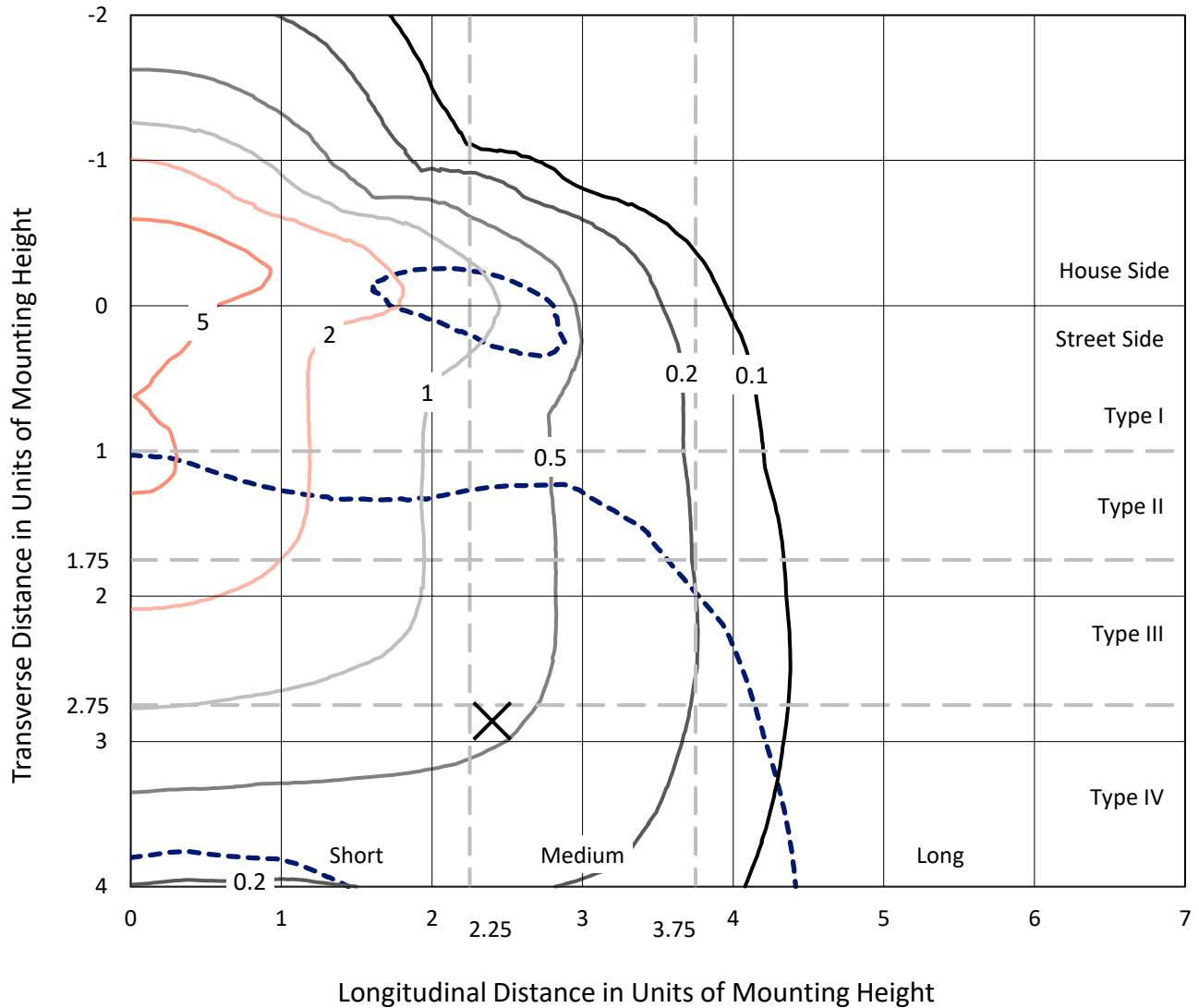
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

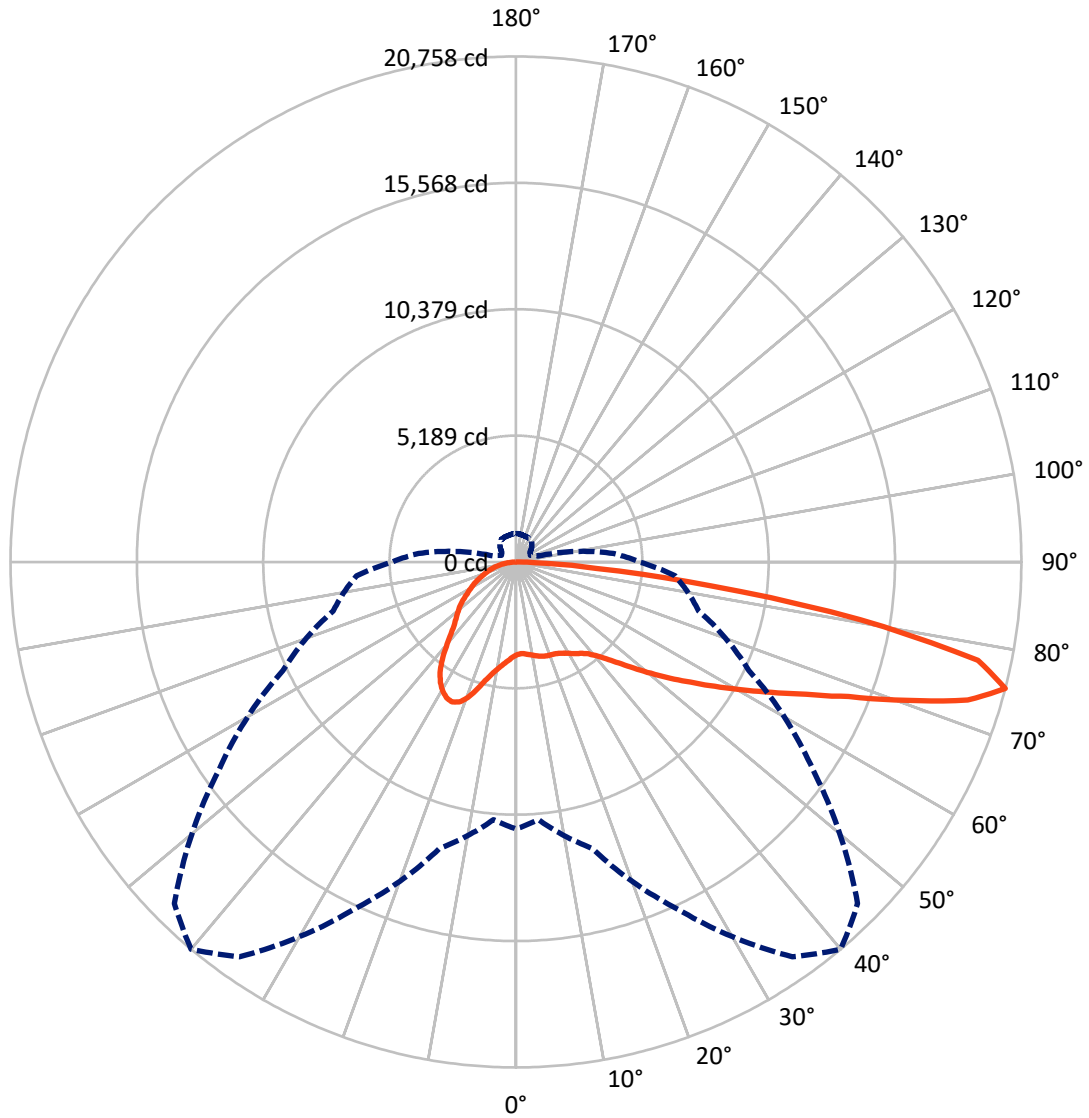
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	10333.3	0.0	10333.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	23017.7	0.0	23017.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	33351.0	0.0	33351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.7	1.1
10°-20°	1278.1	3.8
20°-30°	2333.8	7.0
30°-40°	3309.9	9.9
40°-50°	4469.4	13.4
50°-60°	6012.5	18.0
60°-70°	7631.2	22.9
70°-80°	6925.8	20.8
80°-90°	1009.6	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°	33351.0	100.0
0°-180°	33351.0	100.0

Coefficient of Utilization



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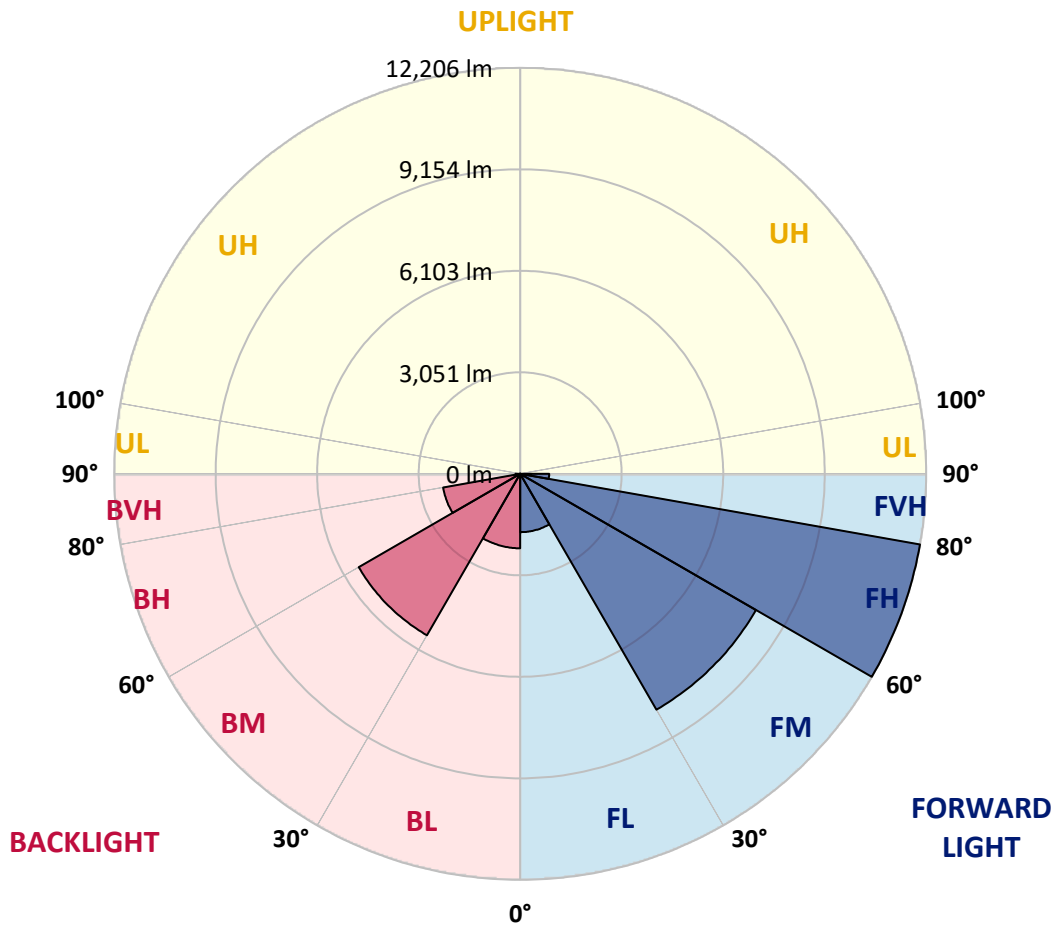
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1754.3	5.3			
FM (30°-60°)	8186.9	24.5			
FH (60°-80°)	12206.0	36.6			G5
FVH (80°-90°)	870.6	2.6			G5
BL (0°-30°)	2238.3	6.7	B3/2500		
BM (30°-60°)	5604.9	16.8	B4/8500		
BH (60°-80°)	2351.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	139.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7
2.5°	3755.4	3776.6	3771.3	3764.2	3764.2	3766.0	3764.2	3776.6	3789.0	3801.3	3820.8
5°	3794.3	3815.5	3804.9	3796.0	3789.0	3787.2	3781.9	3780.1	3787.2	3803.1	3829.7
7.5°	3870.3	3891.6	3875.6	3859.7	3845.6	3838.5	3831.4	3820.8	3815.5	3824.3	3861.5
10°	3955.2	3976.5	3957.0	3928.7	3905.7	3896.9	3889.8	3879.2	3872.1	3877.4	3918.1
12.5°	4040.1	4061.4	4034.8	3995.9	3965.9	3960.5	3951.7	3948.2	3946.4	3944.6	3985.3
15°	4119.7	4137.4	4103.8	4057.8	4026.0	4017.2	4008.3	4013.6	4022.5	4033.1	4079.1
17.5°	4181.7	4199.3	4149.8	4089.7	4059.6	4056.1	4050.8	4068.5	4093.2	4119.7	4176.4
20°	4238.3	4256.0	4192.3	4110.9	4075.5	4075.5	4077.3	4114.4	4149.8	4188.7	4266.6
22.5°	4317.9	4332.0	4254.2	4142.7	4091.4	4095.0	4109.1	4146.3	4190.5	4243.6	4351.5
25°	4436.4	4447.0	4351.5	4202.9	4144.5	4155.1	4167.5	4185.2	4227.7	4289.6	4434.6
27.5°	4627.4	4636.3	4510.7	4309.0	4220.6	4238.3	4256.0	4243.6	4263.0	4316.1	4501.8
30°	4896.3	4901.6	4742.4	4475.3	4349.7	4358.6	4362.1	4310.8	4273.6	4316.1	4549.6
32.5°	5214.7	5212.9	5023.7	4677.0	4496.5	4487.7	4457.6	4356.8	4270.1	4307.3	4592.0
35°	5708.2	5688.8	5444.6	4960.0	4662.8	4608.0	4537.2	4408.1	4287.8	4298.4	4629.2
37.5°	6525.4	6465.3	6127.4	5423.4	4910.4	4770.7	4666.3	4491.2	4326.7	4294.9	4673.4
40°	7447.0	7371.0	6999.5	6058.5	5281.9	5057.3	4889.2	4609.7	4390.4	4310.8	4738.9
42.5°	8540.2	8432.3	8032.5	6806.7	5752.4	5427.0	5174.0	4760.1	4484.1	4362.1	4827.3
45°	9882.8	9739.5	9173.5	7650.5	6345.0	5911.6	5573.8	4988.3	4627.4	4461.1	4960.0
47.5°	11239.5	11274.9	10470.1	8616.3	7056.1	6509.5	6074.4	5331.4	4836.2	4620.3	5174.0
50°	12681.2	12706.0	11759.6	9686.5	7862.7	7185.2	6636.9	5715.3	5126.2	4846.8	5494.2
52.5°	13806.2	13809.7	12930.6	10806.2	8702.9	7928.2	7243.6	6154.0	5462.3	5147.5	5920.5
55°	14510.2	14501.4	13751.4	11865.7	9668.8	8708.3	7915.8	6652.8	5872.7	5501.3	6456.5
57.5°	15021.4	14994.9	14317.4	12776.7	10698.3	9629.8	8676.4	7218.8	6357.4	5922.3	7162.2
60°	15216.0	15200.1	14701.3	13563.9	11780.8	10648.7	9553.8	7852.1	6907.5	6419.3	8069.7
62.5°	15290.3	15320.4	15078.0	14326.3	12939.4	11777.3	10517.8	8609.2	7526.6	6981.8	9026.7
65°	15552.1	15606.9	15557.4	15323.9	14248.4	13098.6	11796.7	9509.6	8202.4	7585.0	10026.1
67.5°	16070.4	16125.2	16146.4	16517.9	15847.5	14745.5	13392.3	10631.0	8993.0	8211.2	10777.9
70°	16058.0	16042.1	16417.1	17467.8	17849.9	17025.6	15543.3	12010.8	9935.9	8731.3	10873.4
72.5°	14616.4	14489.0	15375.2	17457.2	19516.2	19406.5	18170.1	13790.3	10749.6	8794.9	9435.3
75°	10965.4	10625.7	12191.2	15732.5	19793.9	20757.9	19839.9	14894.1	10556.7	7770.7	6566.1
77.5°	4689.3	4347.9	6192.9	11646.4	17715.5	19404.7	18308.0	12994.3	8427.0	5138.6	3224.7
80°	1227.6	1225.8	1871.5	5280.1	12047.9	14329.8	12571.5	8391.6	4814.9	1836.1	889.8
82.5°	507.7	495.3	688.1	2053.7	5886.9	8041.4	6562.6	3743.0	1738.8	497.1	295.4
85°	189.3	187.5	334.3	709.3	2076.7	3316.7	2400.4	957.0	433.4	242.3	132.7
87.5°	53.1	51.3	72.5	245.9	505.9	767.7	410.4	157.4	122.1	95.5	38.9
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°	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7
2.5°	3826.1	3835.0	3850.9	3863.3	3879.2	3896.9	3921.6	3937.6	3953.5	3964.1	3957.0
5°	3842.0	3861.5	3902.2	3942.9	3990.6	4034.8	4086.1	4123.3	4153.4	4162.2	4165.7
7.5°	3877.4	3909.3	3978.2	4047.2	4123.3	4195.8	4270.1	4333.8	4385.1	4404.5	4406.3
10°	3939.3	3981.8	4079.1	4176.4	4277.2	4388.6	4484.1	4576.1	4648.6	4678.7	4680.5
12.5°	4017.2	4070.2	4197.6	4332.0	4471.8	4625.7	4749.5	4862.7	4952.9	4993.6	4993.6
15°	4118.0	4187.0	4349.7	4530.1	4735.3	4949.4	5106.8	5232.4	5333.2	5382.7	5379.2
17.5°	4227.7	4319.6	4524.8	4797.2	5090.9	5372.1	5556.1	5648.1	5752.4	5800.2	5798.4
20°	4333.8	4447.0	4740.6	5136.9	5527.8	5826.7	5975.3	6000.1	6007.2	6012.5	6026.6
22.5°	4443.5	4595.6	5011.3	5564.9	5984.2	6191.1	6212.3	6106.2	5957.6	5888.6	5908.1
25°	4563.7	4765.4	5365.0	6037.2	6376.9	6401.6	6238.9	5980.6	5699.4	5570.2	5589.7
27.5°	4680.5	4961.7	5789.6	6488.3	6659.9	6442.3	6092.1	5725.9	5386.3	5250.1	5266.0
30°	4797.2	5186.4	6258.3	6882.8	6789.0	6341.5	5860.3	5451.7	5110.3	4967.0	4983.0
32.5°	4915.8	5448.2	6797.9	7167.6	6766.0	6127.4	5572.0	5143.9	4843.2	4692.9	4712.3
35°	5050.2	5770.1	7309.1	7323.2	6612.1	5812.6	5191.7	4776.0	4514.2	4393.9	4420.5
37.5°	5225.3	6178.7	7760.1	7362.1	6343.2	5350.9	4719.4	4340.9	4125.1	4070.2	4109.1
40°	5442.9	6670.5	8105.1	7300.2	5945.2	4790.2	4202.9	3900.4	3778.4	3790.7	3833.2
42.5°	5725.9	7220.6	8347.4	7141.0	5391.6	4211.7	3750.1	3615.6	3674.0	3723.5	3769.5
45°	6093.8	7792.0	8497.8	6870.4	4765.4	3721.7	3482.9	3514.8	3559.0	3564.3	3599.7
47.5°	6564.4	8370.4	8596.8	6461.8	4126.8	3376.8	3313.1	3320.2	3311.4	3274.2	3302.5
50°	7151.6	8932.9	8685.3	5920.5	3583.8	3161.0	3076.1	3051.3	2929.3	2809.0	2824.9
52.5°	7820.3	9449.4	8722.4	5248.3	3161.0	2980.6	2842.6	2686.9	2458.8	2421.6	2434.0
55°	8563.2	9927.0	8626.9	4422.2	2805.5	2748.9	2540.1	2352.6	2327.9	2296.0	2301.3
57.5°	9451.2	10441.8	8432.3	3500.6	2441.1	2478.2	2274.8	2296.0	2251.8	2202.3	2193.4
60°	10422.3	10974.2	8090.9	2660.4	2064.3	2140.4	2205.8	2204.0	2191.7	2151.0	2136.8
62.5°	11296.1	11324.4	7418.7	2037.8	1733.5	1878.6	2057.2	2055.5	2044.8	2021.8	2013.0
65°	11816.2	11271.4	6297.3	1604.4	1461.1	1662.8	1855.6	1869.7	1871.5	1869.7	1869.7
67.5°	11724.2	10650.5	4758.3	1277.1	1236.5	1443.4	1655.7	1675.1	1689.3	1692.8	1696.4
70°	10684.1	9286.7	3102.6	1018.9	1036.6	1250.6	1466.4	1485.9	1498.3	1512.4	1519.5
72.5°	8327.9	6827.9	1776.0	824.3	861.5	1084.3	1278.9	1301.9	1309.0	1335.5	1346.1
75°	5075.0	4015.4	958.7	649.2	707.6	926.9	1093.2	1119.7	1132.1	1163.9	1167.5
77.5°	2412.8	1738.8	546.6	505.9	569.6	757.1	923.4	953.4	919.8	937.5	923.4
80°	815.5	645.6	344.9	385.6	435.1	590.8	739.4	769.5	698.7	695.2	688.1
82.5°	284.8	261.8	219.3	256.5	281.3	422.8	559.0	597.9	520.1	518.3	493.5
85°	111.4	106.1	122.1	139.7	168.0	260.0	367.9	387.4	320.2	258.3	254.7
87.5°	23.0	24.8	30.1	31.8	51.3	90.2	132.7	162.7	129.1	109.7	100.8
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)