

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: P885334

Luminaire Tested: **NVN-SB6C-827-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885334
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-SB6C-827-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 36611 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

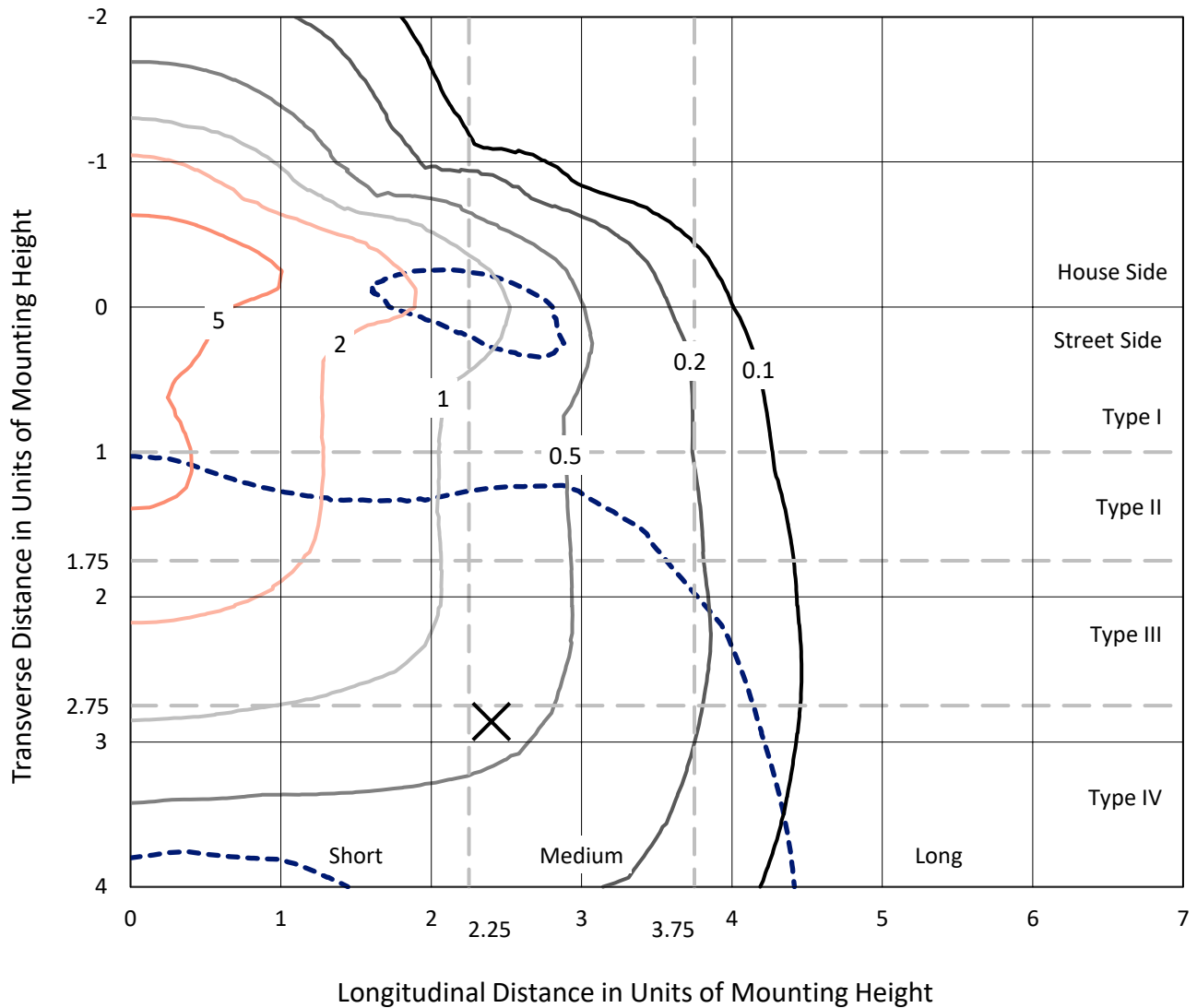
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

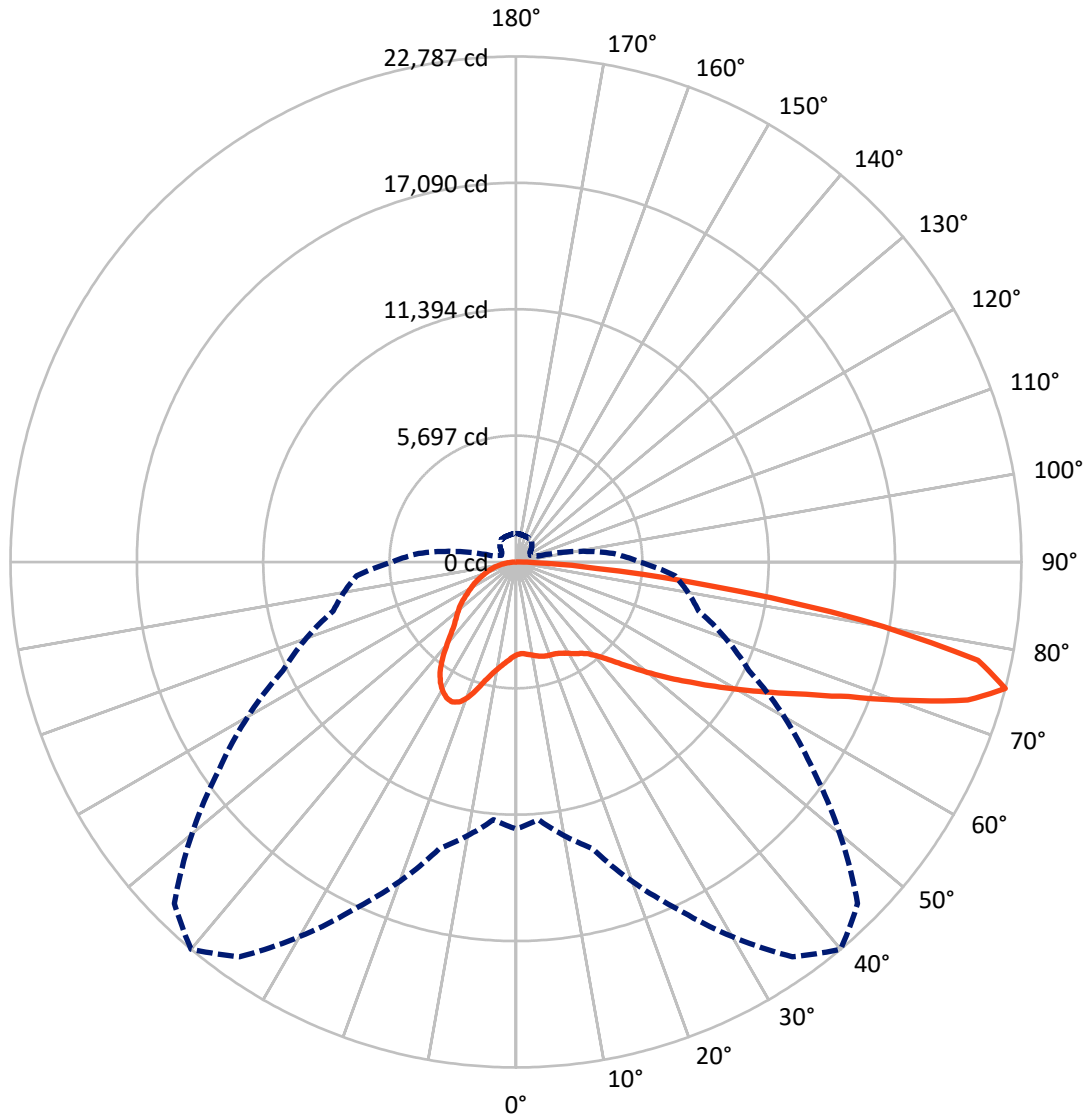
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	11343.3	0.0	11343.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	25267.7	0.0	25267.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	36611.0	0.0	36611.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.9	1.1
10°-20°	1403.1	3.8
20°-30°	2561.9	7.0
30°-40°	3633.4	9.9
40°-50°	4906.2	13.4
50°-60°	6600.2	18.0
60°-70°	8377.2	22.9
70°-80°	7602.8	20.8
80°-90°	1108.3	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°	36611.0	100.0
0°-180°	36611.0	100.0



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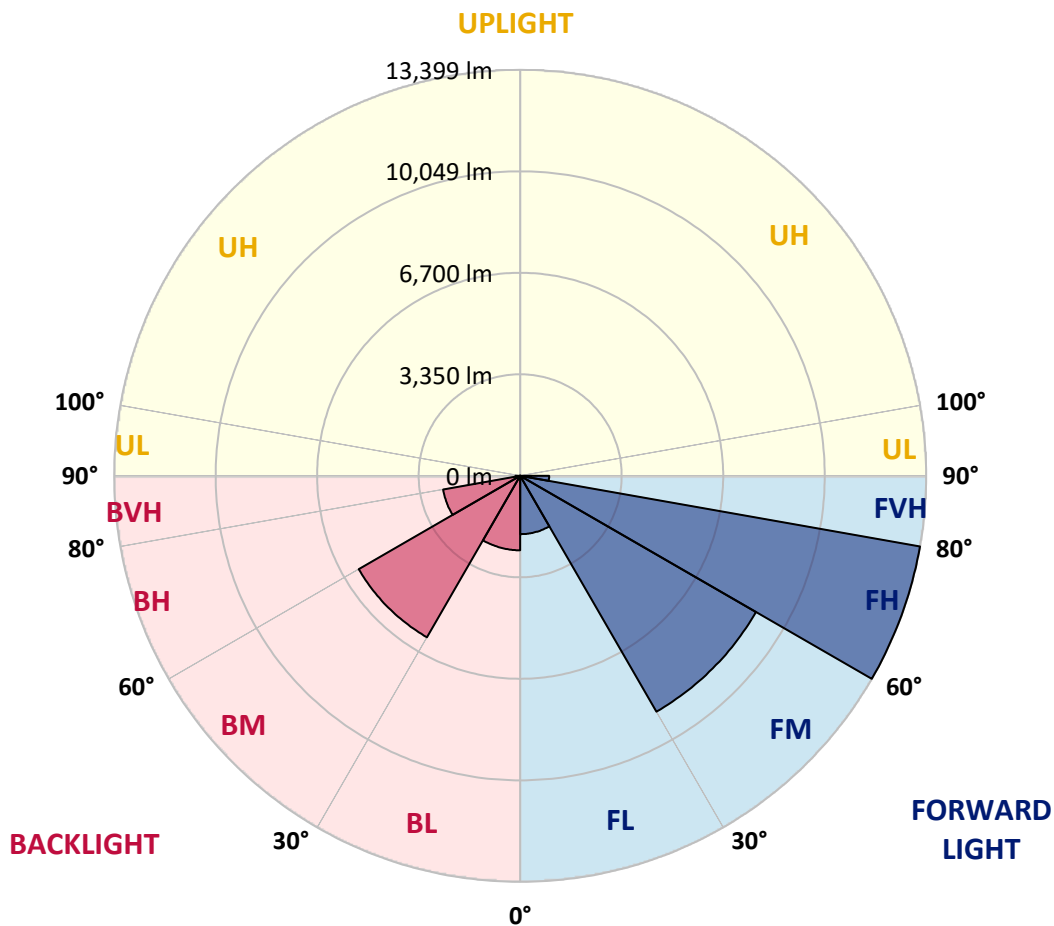
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1925.8	5.3			
FM (30°-60°)	8987.2	24.5			
FH (60°-80°)	13399.1	36.6			G5
FVH (80°-90°)	955.7	2.6			G5
BL (0°-30°)	2457.1	6.7	B3/2500		
BM (30°-60°)	6152.7	16.8	B4/8500		
BH (60°-80°)	2580.9	7.0	B4/5000		G4/5000
BVH (80°-90°)	152.6	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°	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5
2.5°	4122.4	4145.7	4139.9	4132.1	4132.1	4134.1	4132.1	4145.7	4159.3	4172.9	4194.3
5°	4165.2	4188.5	4176.8	4167.1	4159.3	4157.4	4151.6	4149.6	4157.4	4174.9	4204.0
7.5°	4248.7	4272.0	4254.5	4237.0	4221.5	4213.7	4205.9	4194.3	4188.5	4198.2	4238.9
10°	4341.9	4365.2	4343.8	4312.7	4287.5	4277.8	4270.0	4258.4	4250.6	4256.4	4301.1
12.5°	4435.1	4458.4	4429.2	4386.5	4353.5	4347.7	4338.0	4334.1	4332.2	4330.2	4374.9
15°	4522.4	4541.9	4505.0	4454.5	4419.5	4409.8	4400.1	4405.9	4415.6	4427.3	4477.8
17.5°	4590.4	4609.8	4555.5	4489.4	4456.4	4452.5	4446.7	4466.1	4493.3	4522.4	4584.6
20°	4652.5	4672.0	4602.1	4512.7	4473.9	4473.9	4475.8	4516.6	4555.5	4598.2	4683.6
22.5°	4739.9	4755.5	4670.0	4547.7	4491.4	4495.3	4510.8	4551.6	4600.1	4658.4	4776.8
25°	4870.0	4881.7	4776.8	4613.7	4549.6	4561.3	4574.9	4594.3	4640.9	4708.9	4868.1
27.5°	5079.7	5089.5	4951.6	4730.2	4633.1	4652.5	4672.0	4658.4	4679.7	4738.0	4941.9
30°	5374.9	5380.7	5206.0	4912.7	4774.9	4784.6	4788.5	4732.2	4691.4	4738.0	4994.3
32.5°	5724.4	5722.5	5514.7	5134.1	4936.1	4926.3	4893.3	4782.6	4687.5	4728.3	5040.9
35°	6266.2	6244.8	5976.9	5444.8	5118.6	5058.4	4980.7	4839.0	4706.9	4718.6	5081.7
37.5°	7163.3	7097.3	6726.4	5953.6	5390.4	5237.0	5122.5	4930.2	4749.6	4714.7	5130.2
40°	8175.0	8091.5	7683.7	6650.7	5798.2	5551.6	5367.1	5060.3	4819.5	4732.2	5202.1
42.5°	9375.0	9256.6	8817.7	7472.0	6314.7	5957.4	5679.8	5225.4	4922.5	4788.5	5299.2
45°	10848.8	10691.5	10070.2	8398.3	6965.2	6489.5	6118.6	5475.9	5079.7	4897.2	5444.8
47.5°	12338.2	12377.0	11493.5	9458.5	7745.8	7145.8	6668.1	5852.6	5308.9	5072.0	5679.8
50°	13920.8	13947.9	12909.1	10633.3	8631.3	7887.6	7285.6	6273.9	5627.3	5320.5	6031.2
52.5°	15155.7	15159.6	14194.5	11862.4	9553.6	8703.1	7951.7	6755.5	5996.3	5650.6	6499.2
55°	15928.6	15918.9	15095.5	13025.6	10613.9	9559.5	8689.5	7303.1	6446.8	6039.0	7087.6
57.5°	16489.7	16460.6	15716.9	14025.6	11744.0	10571.1	9524.5	7924.5	6978.8	6501.1	7862.3
60°	16703.3	16685.9	16138.3	14889.7	12932.4	11689.6	10487.7	8619.6	7582.7	7046.8	8858.5
62.5°	16784.9	16817.9	16551.9	15726.6	14204.3	12928.5	11545.9	9450.7	8262.4	7664.3	9909.0
65°	17072.3	17132.5	17078.1	16821.8	15641.2	14379.0	12949.9	10439.1	9004.1	8326.4	11006.1
67.5°	17641.2	17701.4	17724.7	18132.5	17396.6	16186.8	14701.4	11670.2	9872.1	9013.8	11831.4
70°	17627.6	17610.2	18021.8	19175.3	19594.7	18689.8	17062.6	13184.8	10907.1	9584.7	11936.2
72.5°	16045.1	15905.3	16878.1	19163.6	21423.9	21303.5	19946.1	15138.3	11800.3	9654.6	10357.6
75°	12037.2	11664.4	13382.9	17270.4	21728.7	22787.0	21779.2	16349.9	11588.7	8530.3	7208.0
77.5°	5147.7	4772.9	6798.2	12784.8	19447.1	21301.5	20097.6	14264.4	9250.7	5640.9	3539.9
80°	1347.6	1345.7	2054.4	5796.3	13225.6	15730.5	13800.4	9211.9	5285.6	2015.6	976.7
82.5°	557.3	543.7	755.4	2254.4	6462.3	8827.4	7204.1	4108.8	1908.8	545.6	324.3
85°	207.8	205.8	367.0	778.7	2279.7	3640.9	2635.0	1050.5	475.7	266.0	145.6
87.5°	58.3	56.3	79.6	269.9	555.4	842.7	450.5	172.8	134.0	104.9	42.7
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°	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5	4186.5
2.5°	4200.1	4209.8	4227.3	4240.9	4258.4	4277.8	4305.0	4322.4	4339.9	4351.6	4343.8
5°	4217.6	4238.9	4283.6	4328.3	4380.7	4429.2	4485.6	4526.3	4559.3	4569.1	4572.9
7.5°	4256.4	4291.4	4367.1	4442.8	4526.3	4605.9	4687.5	4757.4	4813.7	4835.1	4837.0
10°	4324.4	4371.0	4477.8	4584.6	4695.3	4817.6	4922.5	5023.4	5103.0	5136.1	5138.0
12.5°	4409.8	4468.1	4607.9	4755.5	4908.9	5077.8	5213.7	5338.0	5437.0	5481.7	5481.7
15°	4520.5	4596.2	4774.9	4972.9	5198.2	5433.2	5606.0	5743.8	5854.5	5908.9	5905.0
17.5°	4640.9	4741.9	4967.1	5266.2	5588.5	5897.2	6099.2	6200.2	6314.7	6367.2	6365.2
20°	4757.4	4881.7	5204.0	5639.0	6068.1	6396.3	6559.4	6586.6	6594.3	6600.2	6615.7
22.5°	4877.8	5044.8	5501.1	6108.9	6569.1	6796.3	6819.6	6703.1	6540.0	6464.2	6485.6
25°	5009.8	5231.2	5889.5	6627.4	7000.2	7027.4	6848.7	6565.2	6256.5	6114.7	6136.1
27.5°	5138.0	5446.7	6355.5	7122.5	7310.9	7072.0	6687.6	6285.6	5912.8	5763.3	5780.7
30°	5266.2	5693.4	6870.1	7555.5	7452.6	6961.3	6433.2	5984.6	5609.9	5452.6	5470.0
32.5°	5396.3	5980.7	7462.3	7868.2	7427.4	6726.4	6116.7	5646.7	5316.6	5151.6	5173.0
35°	5543.8	6334.1	8023.5	8039.0	7258.4	6380.7	5699.2	5242.9	4955.5	4823.4	4852.6
37.5°	5736.1	6782.7	8518.7	8081.8	6963.3	5873.9	5180.7	4765.2	4528.3	4468.1	4510.8
40°	5974.9	7322.5	8897.3	8013.8	6526.4	5258.4	4613.7	4281.7	4147.7	4161.3	4207.9
42.5°	6285.6	7926.4	9163.3	7839.0	5918.6	4623.4	4116.6	3969.0	4033.1	4087.5	4138.0
45°	6689.5	8553.6	9328.4	7541.9	5231.2	4085.5	3823.4	3858.4	3906.9	3912.7	3951.6
47.5°	7206.0	9188.6	9437.1	7093.4	4530.2	3706.9	3637.0	3644.8	3635.0	3594.3	3625.3
50°	7850.7	9806.1	9534.2	6499.2	3934.1	3470.0	3376.8	3349.6	3215.6	3083.6	3101.1
52.5°	8584.7	10373.1	9575.0	5761.3	3470.0	3271.9	3120.5	2949.6	2699.1	2658.3	2671.9
55°	9400.2	10897.4	9470.1	4854.5	3079.7	3017.6	2788.4	2582.6	2555.4	2520.5	2526.3
57.5°	10375.0	11462.4	9256.6	3842.8	2679.7	2720.5	2497.2	2520.5	2471.9	2417.5	2407.8
60°	11441.1	12046.9	8881.8	2920.5	2266.1	2349.6	2421.4	2419.5	2405.9	2361.2	2345.7
62.5°	12400.3	12431.4	8143.9	2237.0	1903.0	2062.2	2258.3	2256.4	2244.7	2219.5	2209.8
65°	12971.2	12373.1	6912.8	1761.2	1603.9	1825.3	2036.9	2052.5	2054.4	2052.5	2052.5
67.5°	12870.2	11691.6	5223.4	1402.0	1357.3	1584.5	1817.5	1838.9	1854.4	1858.3	1862.2
70°	11728.5	10194.4	3405.9	1118.5	1137.9	1372.9	1609.8	1631.1	1644.7	1660.2	1668.0
72.5°	9142.0	7495.3	1949.6	904.9	945.7	1190.3	1403.9	1429.2	1436.9	1466.1	1477.7
75°	5571.0	4407.9	1052.5	712.6	776.7	1017.5	1200.0	1229.2	1242.8	1277.7	1281.6
77.5°	2648.6	1908.8	600.0	555.4	625.3	831.1	1013.6	1046.6	1009.7	1029.2	1013.6
80°	895.2	708.8	378.7	423.3	477.7	648.6	811.7	844.7	767.0	763.1	755.4
82.5°	312.6	287.4	240.8	281.6	308.7	464.1	613.6	656.3	570.9	568.9	541.8
85°	122.3	116.5	134.0	153.4	184.5	285.4	403.9	425.3	351.5	283.5	279.6
87.5°	25.2	27.2	33.0	35.0	56.3	99.0	145.6	178.6	141.8	120.4	110.7
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)