

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: P971028

Luminaire Tested: **NVN-SB6C-827-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6C-827-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

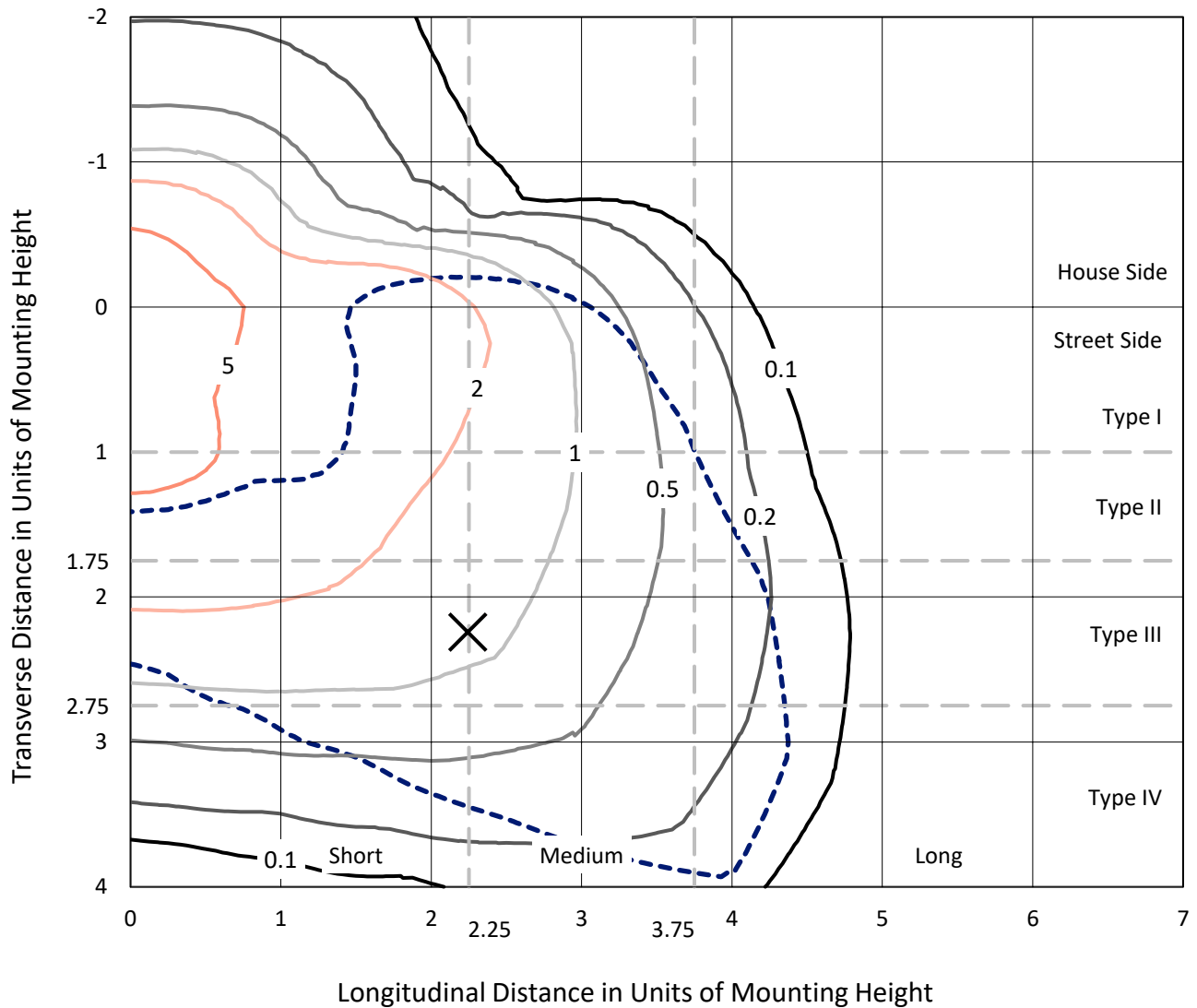
Lumens per Lamp: N/A  
Luminaire Lumens: 40399.3 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P971028  
 CATALOG NUMBER: NVN-SB6C-827-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

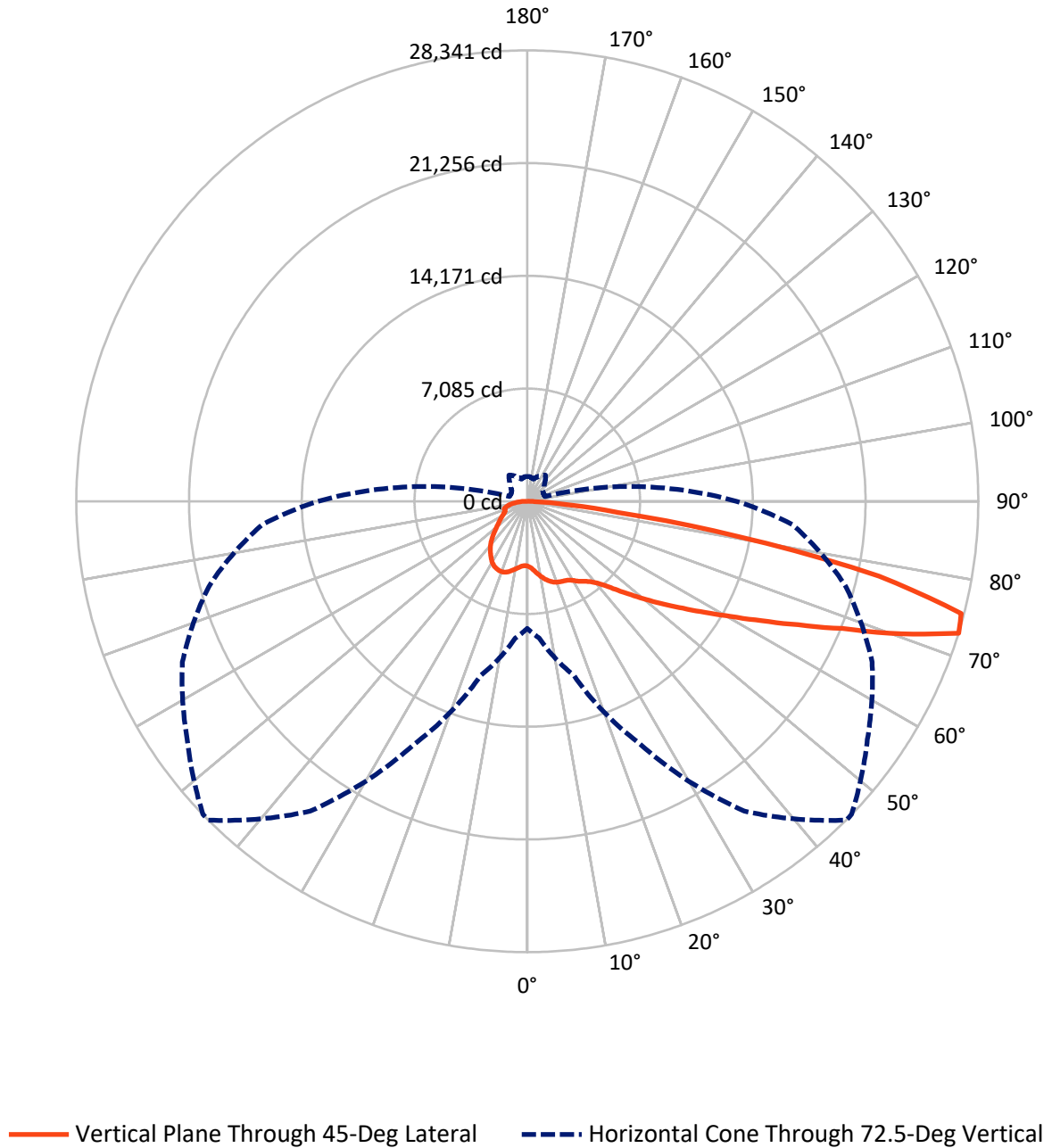
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P971028  
CATALOG NUMBER: NVN-SB6C-827-U-T4W

### Luminous Intensity Polar Plot



REPORT NUMBER: P971028  
 CATALOG NUMBER: NVN-SB6C-827-U-T4W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9132.9	0.0	9132.9
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	31266.4	0.0	31266.4
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	40399.3	0.0	40399.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.8	1.0
10°-20°	1383.0	3.4
20°-30°	2405.8	6.0
30°-40°	3448.9	8.5
40°-50°	4856.2	12.0
50°-60°	7438.3	18.4
60°-70°	10775.5	26.7
70°-80°	8604.9	21.3
80°-90°	1071.7	2.7
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°	40399.3	100.0
0°-180°	40399.3	100.0



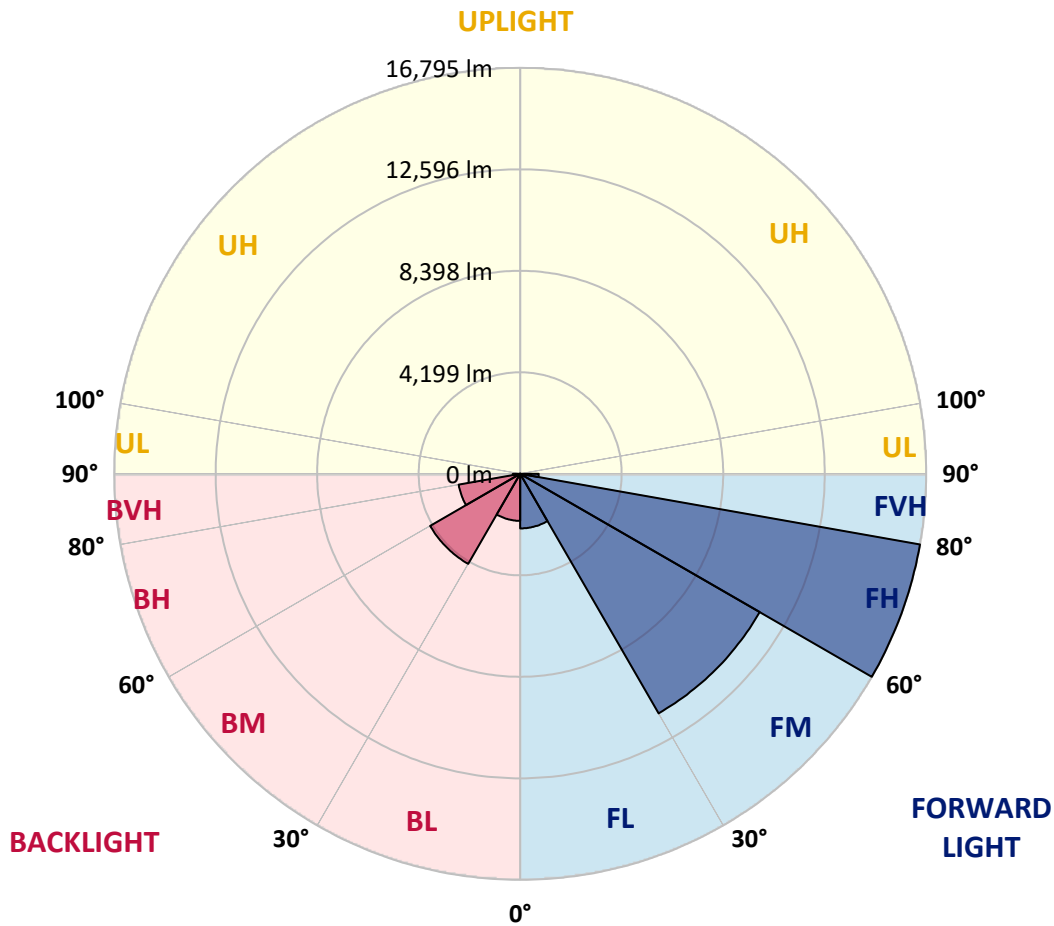
REPORT NUMBER: P971028  
 CATALOG NUMBER: NVN-SB6C-827-U-T4W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2259.2	5.6			
FM (30°-60°)	11443.2	28.3			
FH (60°-80°)	16795.2	41.6			G5
FVH (80°-90°)	768.9	1.9			G5
BL (0°-30°)	1944.5	4.8	B3/2500		
BM (30°-60°)	4300.3	10.6	B3/5000		
BH (60°-80°)	2585.3	6.4	B4/5000		G4/5000
BVH (80°-90°)	302.8	0.7			G3/500
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 Short



REPORT NUMBER: P971028  
 CATALOG NUMBER: NVN-SB6C-827-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4075.5	4075.5	4075.5	4075.5	4075.5	4075.5	4075.5	4075.5	4075.5	4075.5	4075.5
2.5°	4235.1	4262.8	4237.2	4213.9	4203.2	4175.5	4173.4	4156.4	4145.7	4116.0	4107.4
5°	4530.9	4567.1	4524.6	4477.7	4435.2	4367.1	4358.6	4309.6	4254.3	4190.4	4154.2
7.5°	4865.1	4897.0	4848.0	4777.8	4703.3	4590.6	4588.4	4499.0	4411.8	4303.3	4241.6
10°	5156.7	5199.2	5133.2	5037.5	4943.8	4816.2	4801.2	4699.1	4588.4	4448.0	4354.3
12.5°	5414.2	5444.0	5380.1	5263.1	5154.5	5026.8	5007.6	4894.9	4771.5	4611.8	4492.7
15°	5618.4	5656.8	5571.6	5446.0	5331.1	5205.6	5188.5	5086.4	4962.9	4794.8	4641.6
17.5°	5752.5	5784.5	5697.2	5556.7	5446.0	5341.8	5329.0	5243.9	5135.4	4965.1	4801.2
20°	5803.7	5837.7	5746.2	5603.6	5501.4	5420.5	5414.2	5352.4	5277.9	5122.5	4956.6
22.5°	5854.7	5886.6	5767.5	5618.4	5529.1	5478.0	5475.9	5435.5	5405.6	5277.9	5116.2
25°	6061.1	6069.6	5910.0	5695.1	5567.4	5522.7	5520.5	5518.4	5531.2	5431.2	5288.6
27.5°	6239.9	6237.7	6101.5	5899.4	5701.5	5607.8	5605.7	5626.9	5667.4	5584.4	5467.3
30°	6501.7	6478.2	6316.5	6105.8	5924.9	5780.2	5767.5	5748.3	5780.2	5714.3	5646.1
32.5°	7057.1	6982.6	6720.8	6346.3	6110.0	5999.4	5982.4	5863.2	5876.0	5835.5	5801.5
35°	7853.0	7755.2	7406.1	6801.7	6339.9	6182.4	6173.9	6022.8	5997.3	5961.1	5973.9
37.5°	8800.1	8678.8	8272.4	7461.5	6735.8	6395.3	6382.5	6246.2	6142.0	6103.7	6176.0
40°	9751.4	9598.2	9261.9	8265.9	7318.9	6750.6	6710.3	6503.8	6384.6	6320.8	6474.0
42.5°	10675.1	10547.4	10260.0	9168.3	8038.3	7269.9	7180.5	6827.3	6737.9	6678.3	6954.9
45°	11492.3	11377.4	11166.7	10132.3	8881.0	7976.6	7889.2	7312.6	7284.9	7284.9	7684.9
47.5°	12156.3	12130.8	11907.3	11115.6	9874.8	8781.0	8629.9	7987.1	8061.6	8176.5	8721.4
50°	12892.7	12822.4	12584.0	12083.9	11043.2	9702.4	9579.0	8815.0	9093.8	9408.8	10219.7
52.5°	13569.5	13607.7	13341.7	13092.7	12362.7	10730.4	10513.3	9791.8	10394.1	10915.5	11975.4
55°	14265.3	14267.5	14193.0	14158.9	13746.1	11866.8	11628.5	10966.6	11924.3	12571.3	14022.7
57.5°	14918.7	14923.0	15033.6	15333.7	15350.7	13177.8	12907.5	12409.6	13624.7	14284.5	16133.9
60°	15501.8	15531.6	15833.8	16536.1	16761.7	14680.4	14424.9	14114.2	15382.7	16046.7	18353.6
62.5°	15697.7	15806.1	16478.7	17476.8	18155.7	16523.4	16272.3	16087.1	17229.9	17847.1	20209.4
65°	15365.7	15614.6	16915.0	18253.6	19590.1	18713.3	18464.2	18262.1	19149.6	19730.5	21733.2
67.5°	14550.5	14871.9	16889.4	19068.7	21331.0	21348.0	21116.0	20641.4	21207.6	21431.0	22229.1
70°	12403.1	12884.1	15401.8	19373.0	23329.3	24951.1	24727.6	23506.0	23261.2	22180.1	20833.0
72.5°	7991.4	8638.4	11341.2	16868.1	23774.2	28341.2	28328.5	26091.8	23910.4	20724.5	16708.5
75°	2915.6	3311.5	5269.4	10587.8	19956.1	28168.8	28251.9	25649.1	21826.9	16008.3	10409.1
77.5°	1062.0	1162.0	1719.5	4069.1	12273.3	22601.6	22773.9	20505.2	15535.9	8033.9	4124.5
80°	557.6	612.9	881.1	1579.1	5258.8	13422.6	13692.9	12186.1	7301.9	2419.7	1236.5
82.5°	308.6	334.2	493.7	857.6	2368.7	5739.8	5901.5	4814.0	2568.8	1025.8	510.8
85°	166.0	176.6	232.0	468.2	1157.7	1989.8	2034.5	1438.7	1023.7	602.3	246.9
87.5°	49.0	59.6	76.6	148.9	453.4	446.9	457.6	285.2	404.4	304.3	80.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P971028  
 CATALOG NUMBER: NVN-SB6C-827-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4075.5	4075.5	4075.5	4075.5	4075.5	4075.5	4075.5	4075.5	4075.5	4075.5	4075.5
2.5°	4094.7	4088.3	4064.8	4054.2	4041.5	4039.3	4050.0	4052.1	4054.2	4056.3	4064.8
5°	4133.0	4111.7	4090.4	4077.7	4081.9	4084.0	4105.3	4120.2	4130.9	4139.4	4143.6
7.5°	4207.4	4190.4	4154.2	4152.2	4158.5	4177.7	4205.4	4239.4	4258.6	4273.4	4277.7
10°	4318.1	4286.2	4243.6	4250.1	4262.8	4290.4	4347.9	4375.6	4407.5	4435.2	4428.8
12.5°	4430.9	4403.3	4354.3	4358.6	4379.8	4428.8	4484.2	4518.2	4539.4	4560.7	4569.2
15°	4577.8	4528.9	4475.6	4475.6	4513.9	4567.1	4592.6	4620.3	4633.1	4656.5	4665.0
17.5°	4728.8	4665.0	4594.8	4590.6	4637.3	4662.9	4677.8	4682.0	4686.3	4711.8	4720.3
20°	4879.9	4809.7	4709.7	4701.2	4711.8	4707.6	4705.5	4701.2	4707.6	4739.5	4752.3
22.5°	5029.0	4948.1	4809.7	4771.5	4741.6	4701.2	4699.1	4697.0	4701.2	4733.1	4754.4
25°	5203.4	5105.5	4920.4	4805.5	4705.5	4650.1	4656.5	4658.6	4662.9	4688.5	4722.5
27.5°	5392.8	5284.3	5022.6	4794.8	4613.9	4575.6	4565.0	4571.4	4586.3	4626.7	4667.1
30°	5582.3	5454.5	5116.2	4752.3	4499.0	4445.8	4411.8	4426.7	4473.5	4513.9	4558.6
32.5°	5754.7	5626.9	5190.7	4658.6	4352.2	4269.1	4224.4	4243.6	4290.4	4305.3	4358.6
35°	5956.9	5812.2	5222.6	4509.7	4192.6	4064.8	4005.3	3977.6	4001.0	3986.1	4033.0
37.5°	6182.4	6031.3	5218.4	4313.9	4005.3	3858.4	3775.4	3671.1	3622.2	3571.1	3603.1
40°	6516.5	6299.4	5167.2	4077.7	3773.3	3639.3	3490.2	3313.6	3202.9	3102.9	3109.3
42.5°	6971.9	6671.9	5073.6	3818.0	3511.5	3386.0	3183.8	2977.3	2802.9	2636.8	2622.0
45°	7650.9	7159.3	4956.6	3541.4	3228.4	3105.0	2885.9	2653.8	2455.9	2243.1	2217.6
47.5°	8629.9	7814.8	4845.9	3226.4	2930.6	2817.7	2619.8	2404.9	2170.7	1964.3	1940.9
50°	9974.9	8755.4	4743.8	2919.9	2636.8	2551.7	2394.2	2175.0	1938.8	1772.8	1762.2
52.5°	11685.9	10034.4	4701.2	2624.1	2362.3	2330.3	2204.8	2000.5	1777.0	1636.6	1626.0
55°	13650.3	11564.7	4701.2	2341.0	2121.9	2132.4	2045.2	1855.8	1662.1	1536.6	1523.8
57.5°	15655.0	13114.0	4616.1	2079.2	1917.5	1962.2	1906.9	1740.9	1566.4	1436.5	1415.2
60°	17502.4	14412.2	4271.3	1840.9	1736.7	1806.9	1770.7	1628.1	1415.2	1306.7	1289.7
62.5°	18921.8	15144.3	3607.3	1651.5	1587.6	1668.5	1649.3	1479.1	1387.5	1342.9	1328.0
65°	19632.6	15025.1	2758.2	1483.4	1462.1	1587.6	1547.2	1540.8	1468.4	1417.4	1400.4
67.5°	19196.4	13999.3	2000.5	1360.0	1389.7	1513.1	1668.5	1694.0	1559.9	1459.9	1442.9
70°	17283.1	12143.5	1489.7	1242.9	1298.2	1515.3	1902.6	1772.8	1530.2	1413.2	1394.0
72.5°	13148.1	9055.5	1155.6	1119.4	1179.1	1525.9	2006.8	1736.7	1445.0	1562.1	1549.3
75°	7519.0	4971.5	927.9	968.3	1030.0	1425.9	1953.6	1643.0	1379.0	1434.4	1434.4
77.5°	2866.7	1911.1	766.2	819.4	827.9	1245.0	1868.6	1636.6	1313.1	1281.1	1168.4
80°	993.8	747.0	634.2	651.2	640.6	1106.7	1791.9	1423.7	1074.7	962.0	930.0
82.5°	406.5	372.5	502.2	480.9	455.4	859.8	1447.2	1164.1	878.9	776.7	768.2
85°	176.6	236.3	332.0	291.6	263.9	595.9	1159.9	985.3	742.7	640.6	638.5
87.5°	36.2	89.4	140.4	131.9	136.2	398.0	823.6	700.2	525.6	393.7	308.6
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)