

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: P971019

Luminaire Tested: **NVN-SB6C-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971019
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-SB6C-827-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41020.5 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

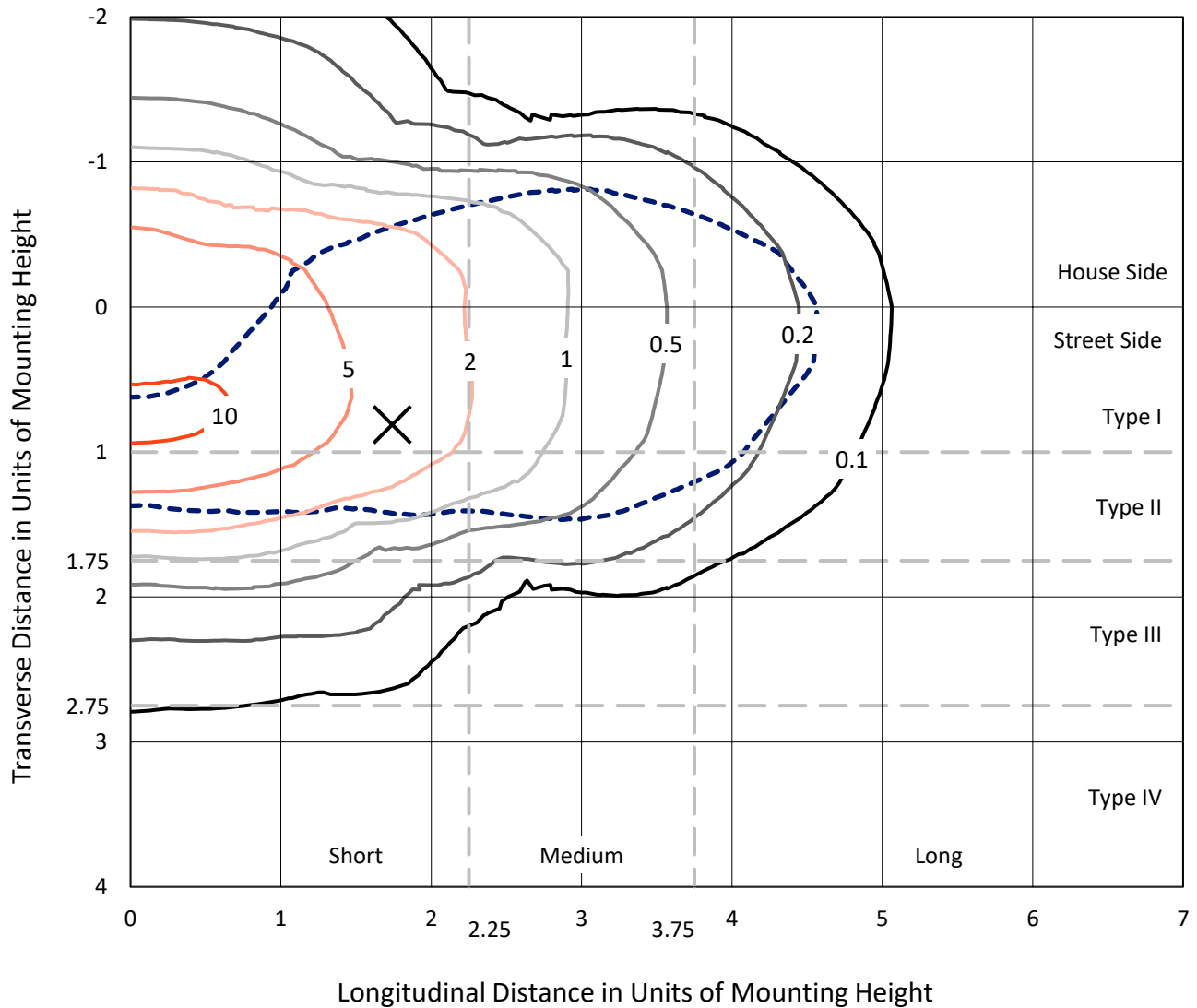
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

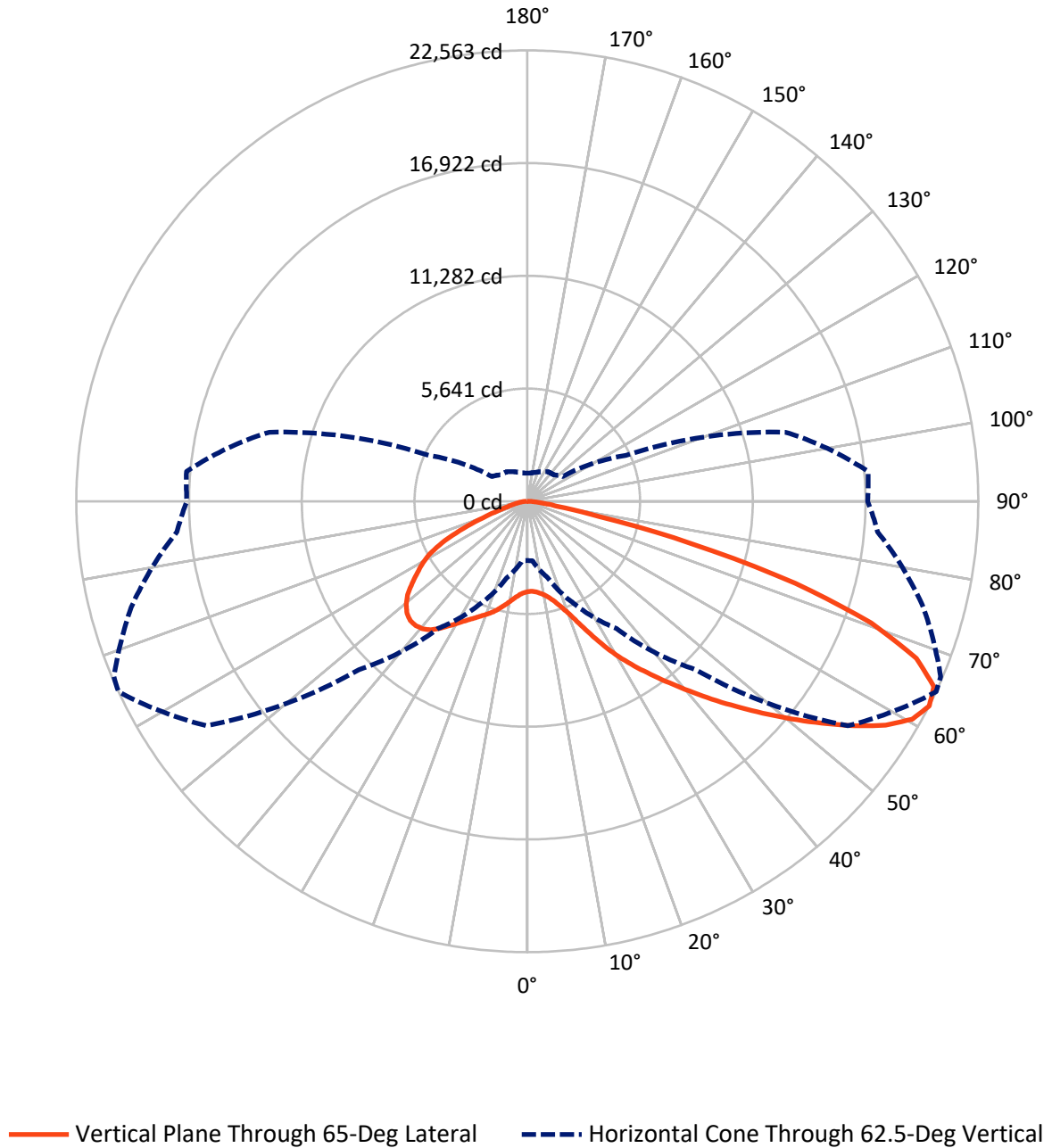
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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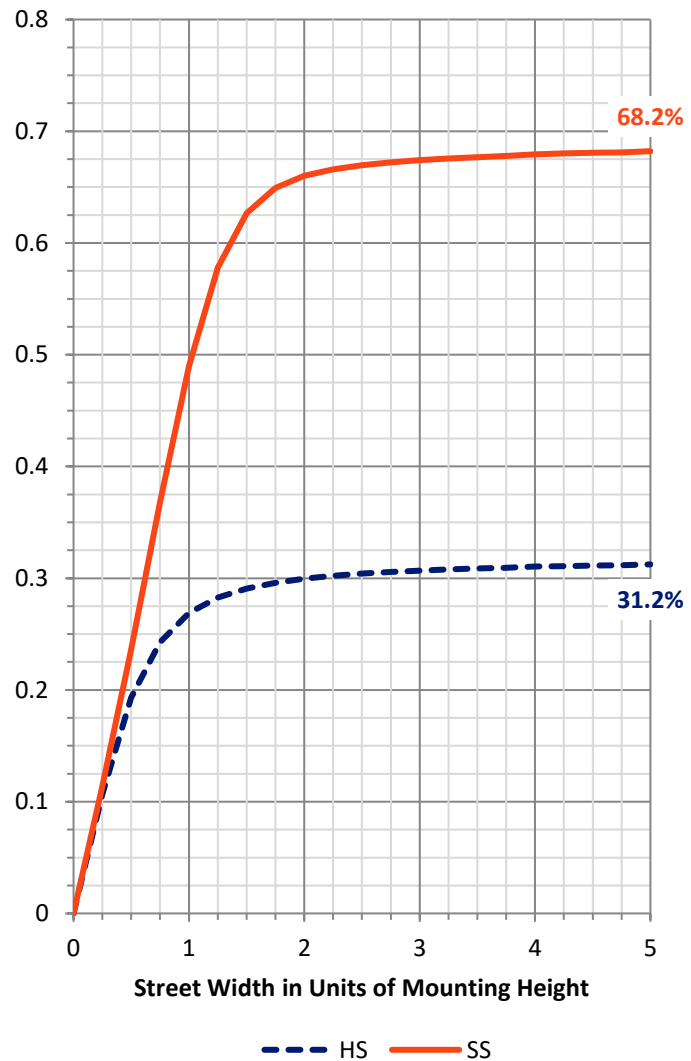
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12944.3	0.0	12944.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	28076.2	0.0	28076.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	41020.5	0.0	41020.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.7	1.1
10°-20°	1528.2	3.7
20°-30°	3098.7	7.6
30°-40°	5362.2	13.1
40°-50°	8114.7	19.8
50°-60°	9514.0	23.2
60°-70°	7976.3	19.4
70°-80°	4403.6	10.7
80°-90°	572.0	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°	41020.5	100.0
0°-180°	41020.5	100.0

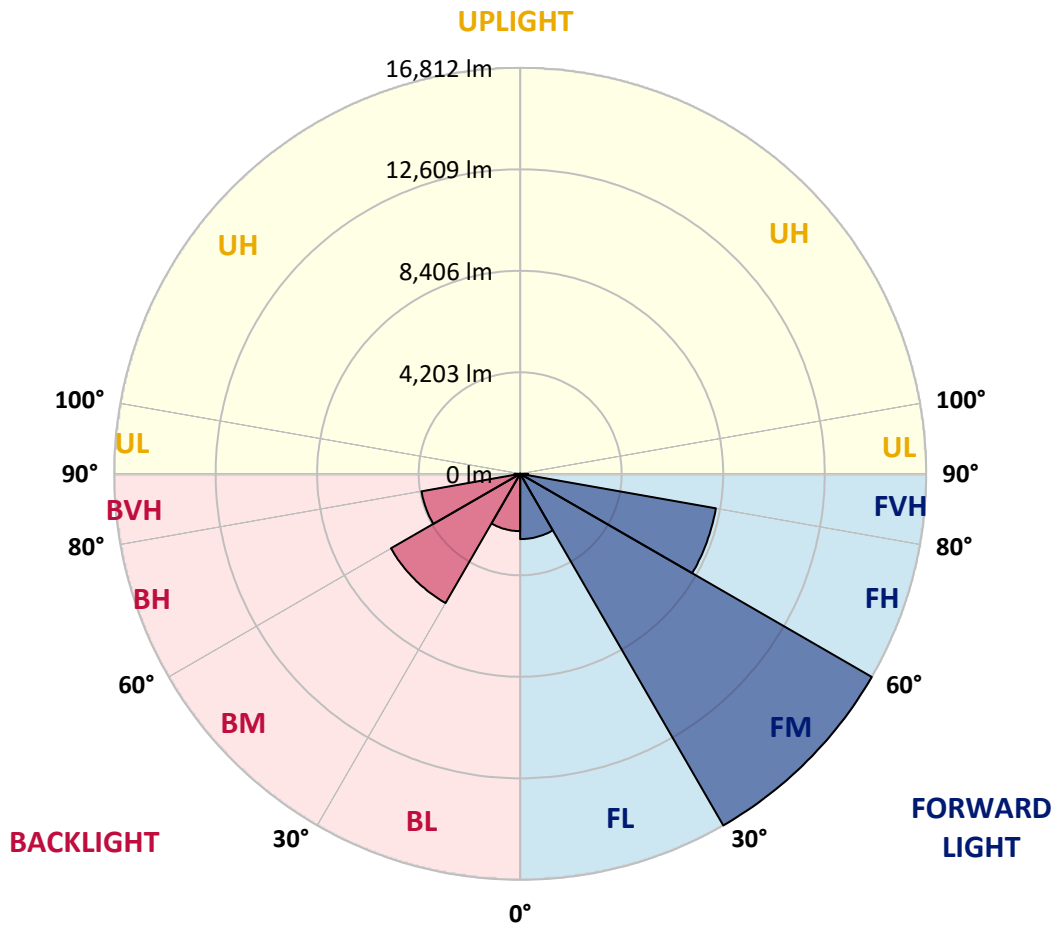


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2703.8	6.6			
FM (30°-60°)	16811.5	41.0			
FH (60°-80°)	8227.5	20.1			G4/12000
FVH (80°-90°)	333.4	0.8			G3/500
BL (0°-30°)	2373.8	5.8	B3/2500		
BM (30°-60°)	6179.4	15.1	B4/8500		
BH (60°-80°)	4152.4	10.1	B4/5000		G4/5000
BVH (80°-90°)	238.6	0.6			G3/500
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°	4520.2	4520.2	4520.2	4520.2	4520.2	4520.2	4520.2	4520.2	4520.2	4520.2	4520.2
2.5°	4490.5	4477.7	4488.4	4488.4	4492.6	4490.5	4505.4	4509.6	4516.0	4528.8	4528.8
5°	4445.8	4443.7	4462.8	4479.9	4496.9	4511.7	4530.9	4558.6	4562.9	4577.8	4596.9
7.5°	4430.9	4418.2	4447.9	4469.2	4509.6	4545.8	4596.9	4643.8	4662.8	4669.3	4705.5
10°	4545.8	4524.6	4552.2	4564.9	4599.1	4635.2	4694.8	4769.3	4790.5	4816.1	4856.6
12.5°	4741.6	4718.2	4758.7	4777.8	4809.7	4841.6	4882.1	4954.4	4965.1	5011.9	5050.2
15°	5009.8	4982.1	5007.6	5031.0	5084.2	5114.0	5154.5	5224.7	5224.7	5260.9	5288.6
17.5°	5373.7	5337.5	5356.6	5365.2	5399.2	5443.9	5512.0	5573.7	5605.6	5592.9	5554.6
20°	5916.4	5871.7	5871.7	5829.1	5816.4	5852.5	5941.9	6027.0	6061.1	5995.1	5901.4
22.5°	6731.5	6667.6	6631.4	6486.7	6429.3	6433.5	6522.9	6627.2	6654.8	6537.8	6327.1
25°	7767.9	7667.9	7618.9	7406.1	7276.3	7163.5	7233.7	7367.8	7406.1	7261.4	6920.9
27.5°	8804.3	8810.7	8763.9	8508.5	8293.6	8087.1	8051.0	8191.4	8231.9	8068.0	7646.6
30°	10257.9	10106.8	10017.4	9711.0	9404.5	9115.0	8966.1	9023.6	9034.1	8838.4	8348.9
32.5°	11511.4	11473.1	11281.6	11013.4	10619.7	10166.4	9917.4	9825.9	9808.8	9530.0	8949.1
35°	12939.4	12918.2	12715.9	12396.8	11971.1	11341.1	10892.1	10630.3	10609.1	10217.4	9542.9
37.5°	14390.8	14390.8	14192.9	13843.9	13403.3	12615.9	11932.7	11517.8	11449.7	10938.9	10147.2
40°	15548.5	15478.3	15514.5	15367.7	14863.3	14026.9	13088.4	12486.1	12394.6	11781.7	10790.0
42.5°	16206.2	16182.8	16399.9	16563.7	16357.3	15689.1	14361.1	13535.3	13407.6	12709.6	11530.5
45°	16353.1	16327.5	16714.8	17315.0	17604.4	17329.9	15744.4	14639.9	14484.5	13680.1	12324.4
47.5°	16014.6	15963.6	16531.8	17478.8	18406.7	18889.8	17242.7	15838.0	15612.4	14624.9	13139.5
50°	14997.4	14948.4	15808.2	17065.9	18677.0	19949.7	18868.5	17108.6	16763.8	15637.9	13963.1
52.5°	12786.2	12809.6	14156.8	15884.8	18321.6	20609.4	20268.9	18447.1	18032.2	16674.4	14735.6
55°	9959.9	10011.0	11666.8	13569.4	16900.0	20509.4	21224.5	19826.3	19413.4	17649.1	15533.7
57.5°	7131.5	7357.1	8908.6	10792.0	14169.5	18923.9	21433.1	21137.2	20737.1	18713.2	16314.7
60°	4622.4	4662.8	6259.1	8157.4	10790.0	16106.1	21009.5	22131.1	21818.3	19798.6	16968.1
62.5°	2962.5	2990.1	3962.6	5705.7	7765.8	11915.7	19583.6	22563.1	22467.3	20515.8	17595.9
65°	2177.1	2155.9	2662.3	3771.2	5231.1	7348.6	16814.8	22354.5	22544.0	20964.8	18115.1
67.5°	1817.4	1787.7	2036.7	2611.3	3854.2	4173.4	12441.4	20998.9	21692.7	20913.8	18496.1
70°	1655.8	1630.2	1781.3	1938.8	3007.1	2794.4	6271.8	18255.7	19324.0	20332.7	18434.4
72.5°	1402.5	1357.8	1564.3	1721.7	2338.8	2143.1	2592.1	14022.6	15325.1	18470.6	17566.1
75°	1087.5	1057.7	1234.3	1515.3	1757.9	1672.8	1638.7	8514.9	9936.6	14284.4	15367.7
77.5°	861.9	821.4	983.2	1181.1	1581.3	1262.0	1193.9	3666.8	5075.7	9119.3	11498.7
80°	649.1	612.9	747.0	934.3	1215.2	951.3	772.5	1496.1	1913.3	4620.3	5782.3
82.5°	461.9	429.9	521.4	685.3	817.2	853.4	474.6	838.6	942.8	1781.3	1291.8
85°	295.8	276.6	349.0	429.9	519.3	549.1	289.5	438.4	480.9	734.2	538.4
87.5°	161.7	131.9	187.3	200.1	240.5	219.2	138.4	159.6	172.4	266.0	227.8
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°	4520.2	4520.2	4520.2	4520.2	4520.2	4520.2	4520.2	4520.2	4520.2	4520.2	4520.2
2.5°	4537.3	4543.7	4564.9	4571.4	4586.3	4605.4	4618.1	4631.0	4631.0	4643.8	4643.8
5°	4599.1	4613.9	4658.6	4682.0	4720.3	4758.7	4782.0	4809.7	4826.7	4835.2	4839.5
7.5°	4718.2	4741.6	4805.5	4845.9	4911.9	4965.1	5001.3	5039.5	5048.0	5071.5	5063.0
10°	4879.9	4907.6	4980.0	5056.6	5135.4	5201.3	5235.4	5263.1	5273.6	5277.9	5267.3
12.5°	5065.1	5105.5	5199.2	5292.8	5375.8	5433.3	5441.8	5435.4	5405.6	5380.0	5380.0
15°	5292.8	5329.0	5433.3	5535.4	5616.3	5626.9	5573.7	5539.7	5503.5	5497.1	5497.1
17.5°	5565.2	5584.4	5680.1	5780.2	5786.5	5750.4	5671.6	5639.8	5605.6	5582.3	5584.4
20°	5882.4	5875.9	5944.1	5986.6	5941.9	5831.2	5712.1	5658.8	5624.8	5597.1	5599.3
22.5°	6261.1	6212.2	6203.7	6193.0	6073.8	5841.9	5680.1	5612.1	5558.9	5520.5	5533.3
25°	6812.4	6625.1	6495.2	6422.9	6154.7	5784.4	5577.9	5426.9	5326.8	5260.9	5286.4
27.5°	7501.9	7186.9	6859.2	6682.5	6154.7	5667.3	5331.1	5086.4	4922.5	4854.4	4888.4
30°	8159.5	7829.7	7346.5	6995.4	6139.9	5475.9	4933.1	4592.6	4401.1	4333.0	4373.5
32.5°	8721.3	8361.6	7863.7	7338.0	6103.7	5165.1	4439.4	4062.7	3877.6	3796.7	3837.1
35°	9242.7	8859.7	8383.0	7714.7	6007.9	4709.7	3896.7	3609.4	3403.0	3273.1	3315.8
37.5°	9777.0	9321.5	8874.6	8055.2	5835.5	4177.6	3479.6	3234.9	2992.3	2817.7	2864.6
40°	10357.9	9813.1	9400.3	8257.4	5552.4	3671.1	3156.1	2932.6	2675.1	2490.0	2526.2
42.5°	11036.8	10402.6	9985.4	8361.6	5165.1	3311.5	2945.4	2726.2	2483.6	2332.5	2362.3
45°	11745.5	11051.8	10519.7	8359.5	4733.1	3143.4	2877.3	2660.3	2392.0	2234.6	2260.1
47.5°	12488.2	11730.6	10981.4	8223.4	4358.5	3166.7	2839.0	2517.6	2221.8	2068.6	2089.9
50°	13233.1	12473.3	11428.4	7967.9	4198.9	3115.7	2696.5	2317.6	1968.6	1830.2	1838.7
52.5°	13971.6	13262.9	11813.6	7604.1	4037.2	2926.3	2513.4	2058.0	1864.3	1768.5	1768.5
55°	14714.3	14043.9	12232.9	7074.1	3632.8	2705.0	2206.9	1960.1	1781.3	1694.0	1685.5
57.5°	15459.2	14946.3	12630.9	6544.2	3124.2	2432.5	2038.8	1840.9	1698.3	1623.8	1611.0
60°	16233.8	15978.5	13041.6	6056.8	2622.0	2083.5	1915.4	1745.2	1600.4	1517.4	1511.1
62.5°	17031.9	17114.9	13362.9	5429.0	2160.1	1870.7	1804.7	1630.2	1489.7	1411.0	1408.9
65°	17836.3	18211.0	13573.6	4558.6	1751.5	1668.5	1685.5	1504.6	1362.0	1294.0	1291.8
67.5°	18442.9	19000.5	13514.0	3449.8	1436.5	1476.9	1536.6	1372.7	1238.6	1185.4	1187.6
70°	18511.0	18906.8	12926.7	2362.3	1202.4	1289.7	1370.5	1242.9	1104.5	1066.2	1068.4
72.5°	17604.4	17629.9	11290.1	1542.9	1017.3	1132.2	1196.1	1110.9	976.8	938.5	936.4
75°	15227.2	14580.2	8289.3	1017.3	851.3	972.6	1032.2	972.6	842.8	851.3	821.4
77.5°	11536.9	10326.0	5033.2	723.5	710.8	817.2	898.1	855.6	744.9	836.4	736.4
80°	5944.1	5586.5	2245.3	540.6	561.8	653.3	738.5	683.2	589.5	561.8	512.9
82.5°	1362.0	1583.4	885.3	387.3	406.5	470.4	564.0	512.9	423.5	357.5	353.3
85°	476.7	521.4	391.5	242.6	238.3	293.7	383.0	342.7	287.3	229.8	242.6
87.5°	151.1	197.9	146.9	97.9	102.2	131.9	176.6	161.7	134.1	87.2	91.5
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)