

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: P969775

Luminaire Tested: **NVN-SB6A-727-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969775  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6A-727-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

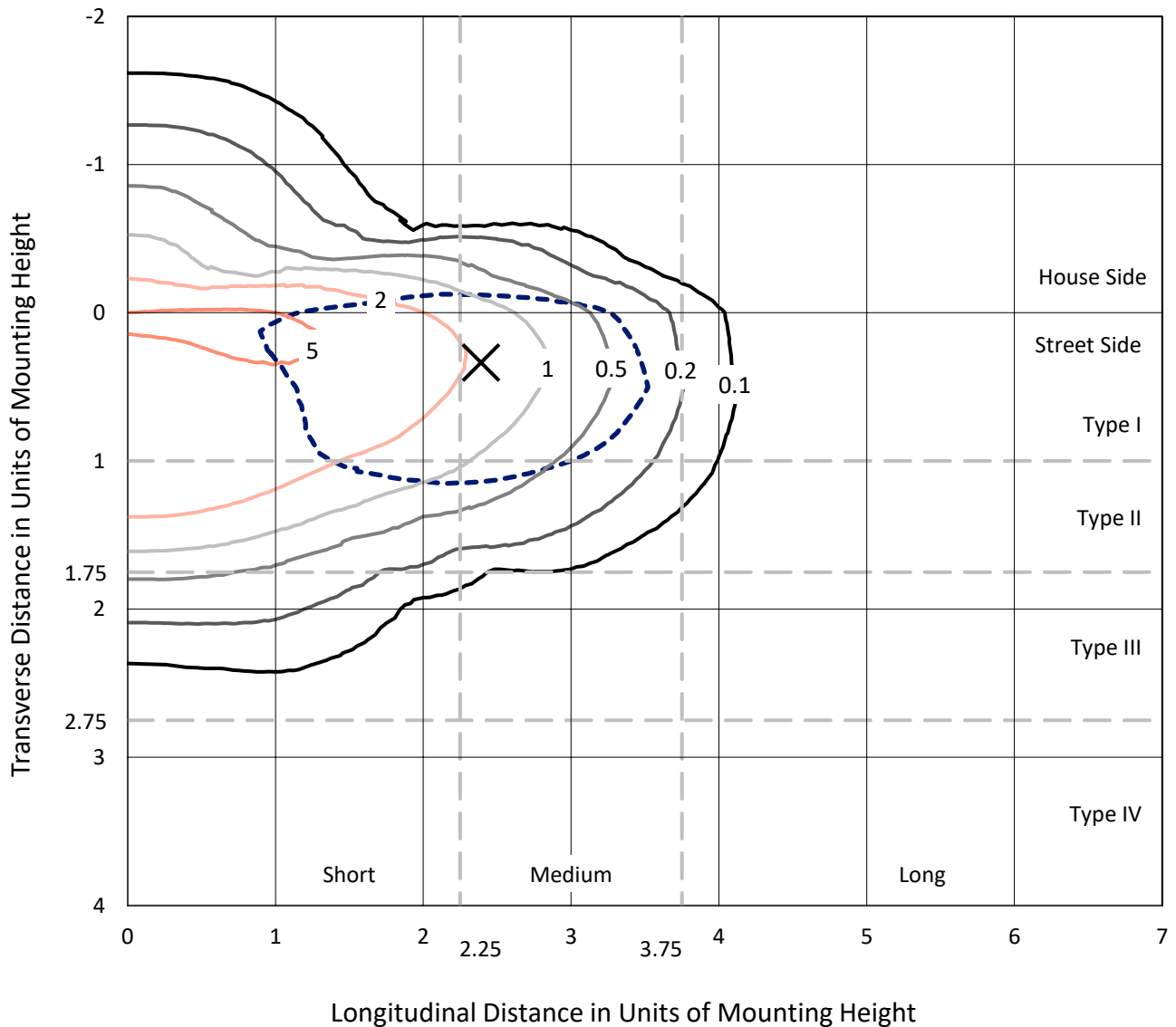
Lumens per Lamp: N/A  
Luminaire Lumens: 18884.6 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): 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

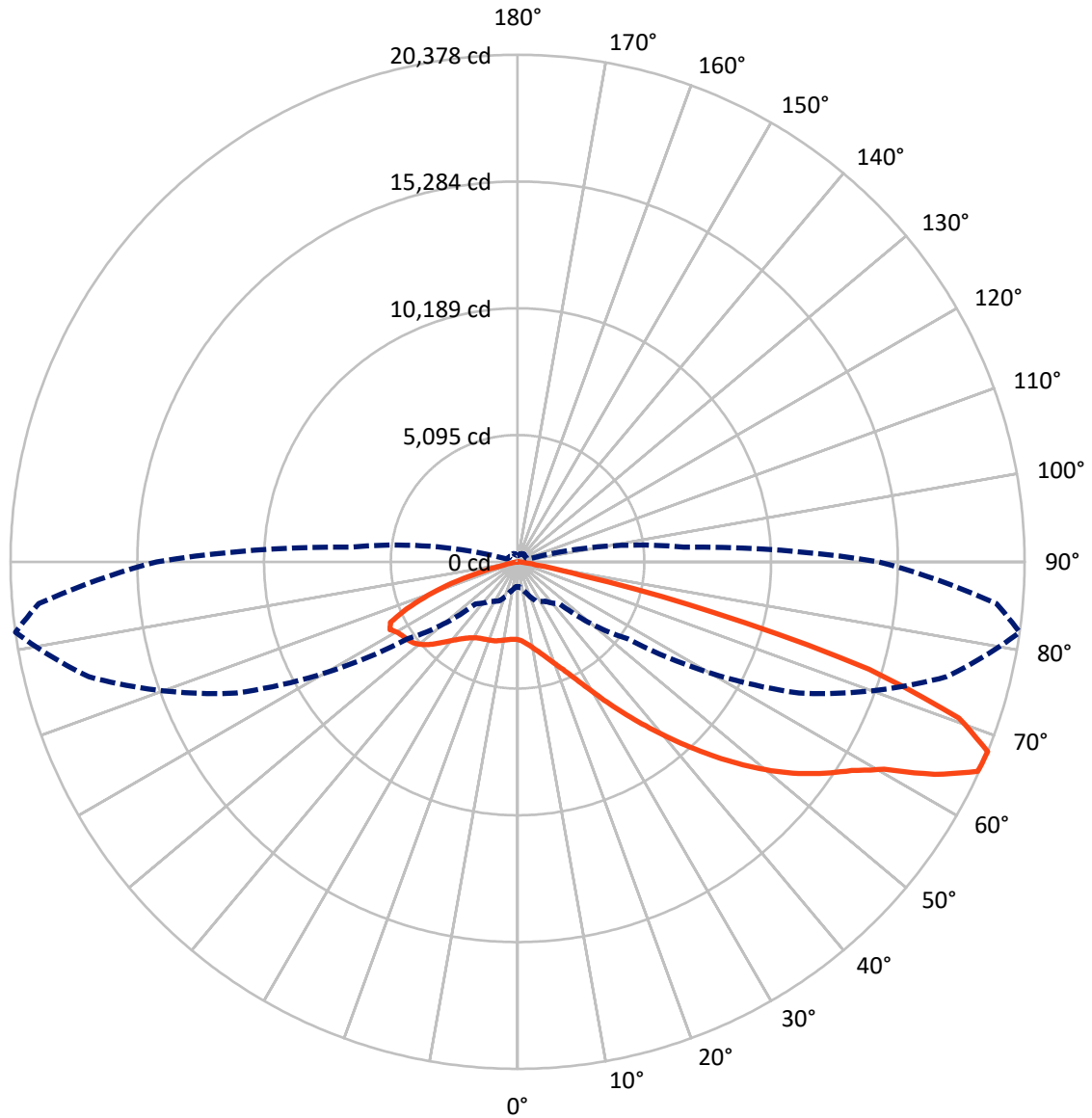
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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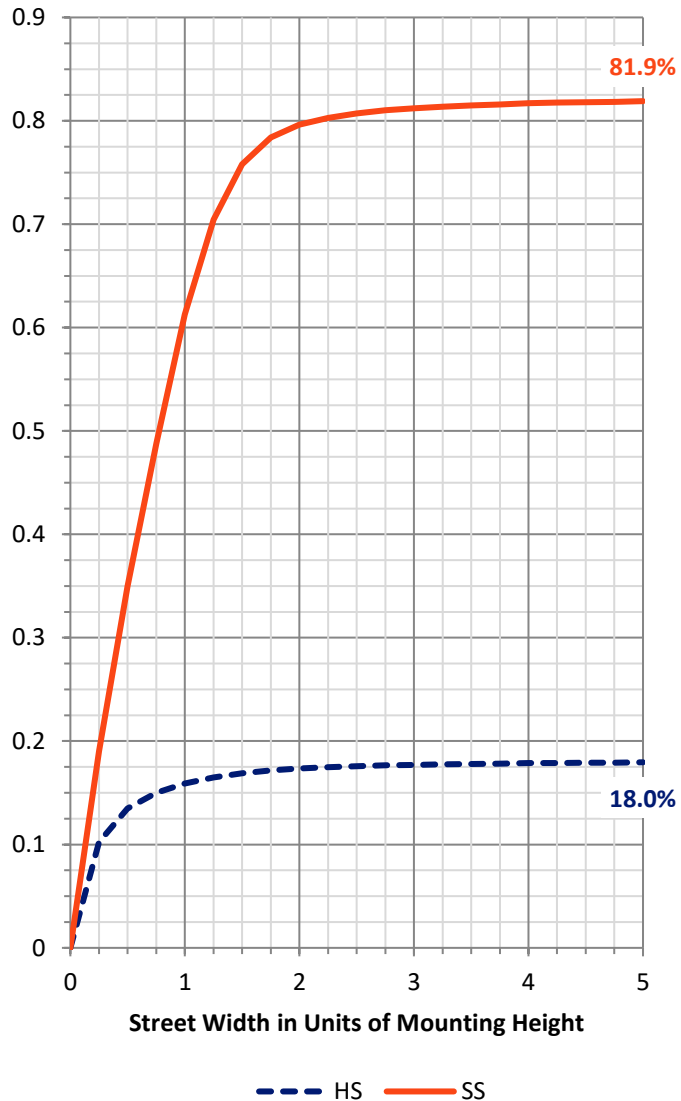
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3420.8	0.0	3420.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	15463.8	0.0	15463.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	18884.6	0.0	18884.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.7	1.5
10°-20°	724.3	3.8
20°-30°	1160.1	6.1
30°-40°	2051.4	10.9
40°-50°	3594.3	19.0
50°-60°	4793.8	25.4
60°-70°	4462.8	23.6
70°-80°	1712.8	9.1
80°-90°	106.4	0.6
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°	18884.6	100.0
0°-180°	18884.6	100.0

**Coefficient of Utilization**



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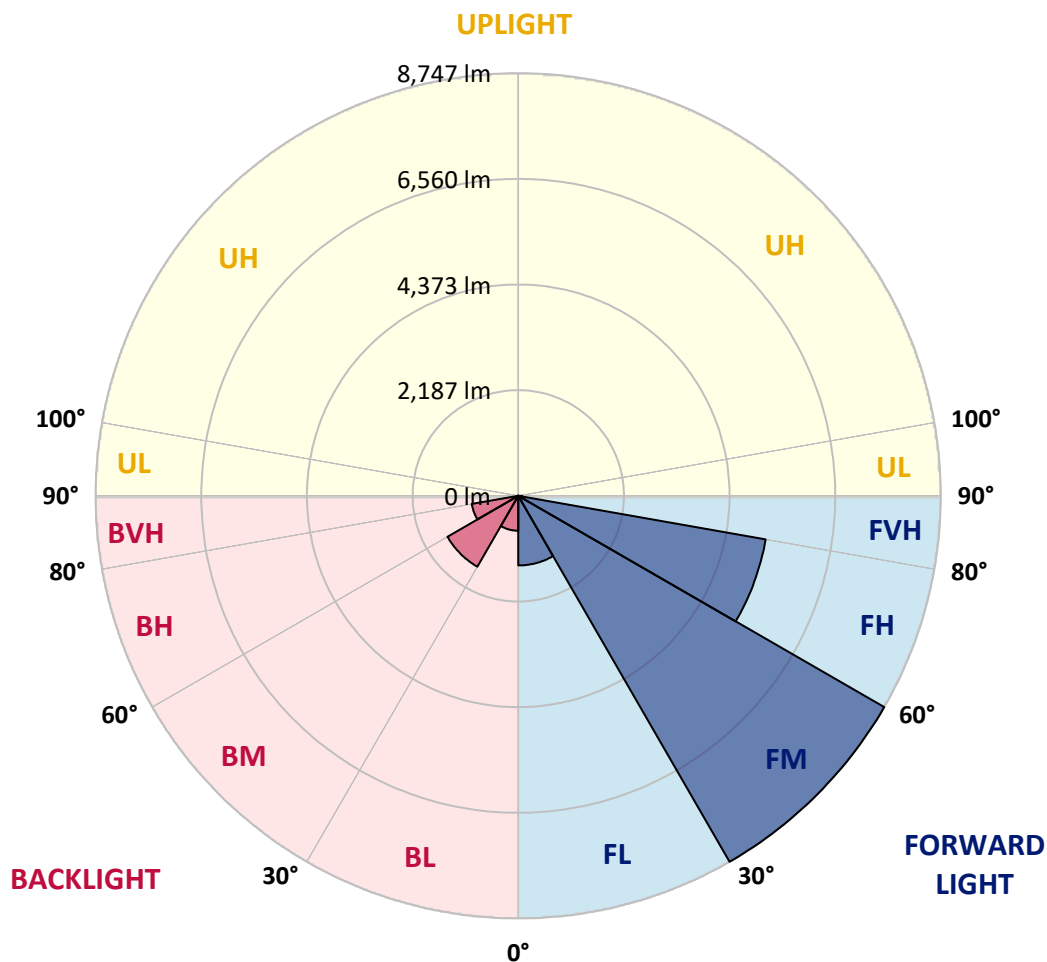
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1440.7	7.6			
FM (30°-60°)	8746.6	46.3			
FH (60°-80°)	5199.2	27.5			G3/7500
FVH (80°-90°)	77.3	0.4			G1/100
BL (0°-30°)	722.5	3.8	B2/1000		
BM (30°-60°)	1692.9	9.0	B2/2500		
BH (60°-80°)	976.4	5.2	B2/1000		G2/1000
BVH (80°-90°)	29.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5
2.5°	3306.6	3325.7	3314.8	3309.4	3299.9	3286.3	3275.4	3241.4	3206.0	3182.9	3174.7
5°	3373.3	3392.3	3390.9	3396.4	3403.2	3407.3	3404.5	3366.5	3316.2	3276.7	3253.7
7.5°	3316.2	3337.9	3355.6	3382.8	3430.4	3480.7	3505.2	3497.0	3445.3	3390.9	3362.4
10°	3154.3	3177.5	3219.6	3283.6	3384.1	3492.9	3584.0	3626.1	3593.5	3533.7	3494.3
12.5°	2858.0	2881.1	2964.0	3102.7	3271.3	3460.3	3634.3	3747.2	3755.3	3695.5	3649.3
15°	2524.9	2547.9	2636.3	2810.3	3067.3	3370.5	3661.5	3875.0	3947.1	3895.4	3839.6
17.5°	2318.2	2338.5	2405.2	2545.3	2813.1	3191.1	3652.0	4010.9	4175.4	4134.6	4068.0
20°	2255.6	2273.3	2304.6	2402.5	2625.4	3004.8	3589.4	4138.7	4421.5	4398.5	4323.7
22.5°	2322.2	2338.5	2348.1	2391.6	2531.6	2882.4	3510.6	4269.3	4707.1	4709.8	4618.8
25°	2475.9	2492.2	2481.3	2508.6	2569.7	2844.4	3480.7	4422.9	5066.1	5096.0	4992.6
27.5°	2728.8	2730.2	2704.4	2702.9	2712.5	2901.5	3512.0	4587.4	5518.8	5574.6	5446.7
30°	3235.9	3215.5	3116.3	3008.9	2959.9	3072.7	3599.0	4781.8	6053.1	6152.4	5991.9
32.5°	4017.8	3987.9	3805.6	3548.7	3290.4	3348.8	3755.3	5003.5	6635.0	6814.5	6618.7
35°	4866.2	4858.0	4667.6	4285.6	3834.2	3741.8	4009.6	5294.4	7270.0	7555.6	7323.0
37.5°	5654.7	5650.7	5541.9	5091.9	4542.6	4289.6	4417.4	5675.1	7949.8	8363.2	8088.5
40°	6375.4	6387.6	6278.8	5876.4	5323.0	4992.6	4972.2	6145.6	8705.8	9242.8	8916.6
42.5°	6998.1	7011.7	6901.5	6603.8	6093.9	5770.3	5653.4	6722.1	9444.0	10187.8	9801.7
45°	7420.9	7505.3	7489.0	7251.0	6885.2	6549.4	6472.0	7445.4	10285.7	11189.8	10737.1
47.5°	7540.6	7618.1	7740.5	7773.1	7550.2	7219.7	7312.1	8317.0	11136.8	12193.3	11677.9
50°	7245.5	7317.6	7571.9	7910.4	8065.4	7963.4	8129.3	9251.0	12008.4	13194.0	12601.1
52.5°	6663.6	6737.0	7057.9	7593.6	8225.8	8546.8	8949.2	10171.5	12852.7	14141.6	13475.5
55°	5822.0	5899.5	6311.4	6917.8	7920.0	8787.3	9633.1	11090.6	13626.4	14994.1	14264.0
57.5°	4677.2	4734.3	5162.5	6011.0	7150.4	8548.1	10137.5	12094.1	14355.1	15831.6	15045.8
60°	3048.4	3098.7	3596.2	4542.6	5875.0	7748.6	10238.1	13213.0	15323.1	16920.8	16099.6
62.5°	2027.2	2061.2	2356.3	3051.0	4137.4	6213.5	9649.3	14106.3	16742.7	18816.1	17906.5
65°	1390.9	1425.0	1720.0	2204.0	2673.1	4110.2	7956.7	13988.0	18028.8	20321.2	19245.7
67.5°	992.5	1021.1	1271.3	1728.2	1934.8	2387.5	5393.8	12476.1	17843.9	20378.3	19317.8
70°	711.0	727.4	934.1	1346.0	1537.8	1434.4	2999.4	9541.9	15623.7	18817.5	17846.7
72.5°	497.6	503.1	648.5	1025.2	1238.6	1046.9	1427.6	6361.8	11816.6	14769.8	13835.8
75°	337.2	344.0	436.4	751.8	993.9	799.5	755.9	3411.3	6936.9	8175.5	7328.4
77.5°	206.6	209.4	281.5	513.9	743.7	609.2	486.8	1445.2	2684.0	2635.0	2246.1
80°	117.0	117.0	179.5	319.5	507.2	393.0	341.2	614.6	849.8	746.4	658.0
82.5°	65.3	66.6	130.5	198.5	335.8	232.5	187.7	284.1	367.1	324.9	282.8
85°	27.2	29.9	80.3	93.8	160.4	115.6	76.2	119.6	135.9	121.1	88.4
87.5°	2.8	4.1	24.5	17.6	19.1	23.2	10.9	23.2	19.1	19.1	13.6
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°	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5
2.5°	3148.9	3128.5	3076.8	3017.1	2938.2	2900.1	2848.5	2813.1	2783.2	2786.0	2758.7
5°	3210.1	3158.4	3042.9	2898.8	2719.3	2591.5	2455.5	2361.7	2285.5	2269.2	2232.6
7.5°	3294.5	3212.9	3010.2	2750.6	2447.4	2217.6	2012.3	1880.4	1786.6	1756.6	1726.7
10°	3403.2	3284.9	2968.1	2564.2	2127.8	1835.5	1615.3	1511.9	1448.0	1426.3	1410.0
12.5°	3529.6	3367.8	2912.3	2337.2	1798.8	1517.4	1377.3	1325.6	1305.2	1298.5	1294.4
15°	3688.7	3471.2	2828.1	2068.0	1520.1	1323.0	1263.1	1256.3	1259.0	1256.3	1254.9
17.5°	3877.7	3584.0	2690.7	1790.7	1332.5	1223.6	1201.9	1207.3	1214.1	1212.8	1210.1
20°	4084.3	3695.5	2515.4	1544.6	1204.7	1153.0	1140.7	1146.2	1151.6	1148.9	1147.6
22.5°	4319.6	3815.2	2320.9	1352.8	1119.0	1087.7	1074.1	1075.4	1075.4	1070.0	1067.3
25°	4601.0	3947.1	2116.9	1216.9	1053.7	1029.2	1012.9	1007.5	999.4	983.0	980.3
27.5°	4936.9	4087.1	1921.2	1121.7	1002.0	979.0	959.9	946.3	925.9	898.7	896.1
30°	5314.8	4257.0	1755.3	1061.9	961.2	938.2	916.4	896.1	866.1	832.1	829.4
32.5°	5759.5	4439.3	1634.3	1022.4	924.6	900.1	874.2	849.8	817.1	783.2	784.5
35°	6289.7	4659.5	1563.6	995.3	896.1	863.4	834.9	807.6	783.2	753.3	750.5
37.5°	6864.8	4893.3	1541.8	981.6	877.0	826.7	794.1	775.0	772.2	754.6	753.3
40°	7494.4	5170.7	1558.1	973.5	856.6	791.3	755.9	751.8	758.7	727.4	728.8
42.5°	8160.5	5499.7	1585.4	964.0	828.0	755.9	722.0	722.0	716.6	673.0	673.0
45°	8881.2	5879.1	1612.5	940.8	794.1	720.6	694.7	685.2	662.2	620.0	618.6
47.5°	9607.2	6265.2	1632.9	898.7	753.3	690.7	667.6	645.9	611.8	573.8	572.4
50°	10296.5	6612.0	1611.2	836.2	707.0	662.2	637.7	607.7	571.0	545.2	541.1
52.5°	10912.5	6912.4	1518.7	762.8	658.0	632.2	610.5	579.2	549.3	522.1	519.4
55°	11448.2	7155.8	1355.6	693.4	614.6	606.4	584.7	545.2	504.4	481.3	478.6
57.5°	11962.2	7340.7	1151.6	636.3	575.1	577.9	545.2	509.8	471.8	447.3	444.6
60°	12646.0	7588.2	944.9	583.3	533.0	541.1	505.8	479.9	432.3	401.1	397.0
62.5°	13739.2	7973.0	750.5	518.0	484.0	486.8	471.8	440.5	383.5	346.8	344.0
65°	14606.7	7831.5	591.4	447.3	428.2	432.3	432.3	398.4	337.2	295.0	291.0
67.5°	14508.8	6705.8	471.8	378.0	375.3	378.0	387.4	359.0	299.1	265.2	259.7
70°	13365.3	5333.9	378.0	314.1	326.4	319.5	346.8	327.7	269.2	235.2	231.1
72.5°	10905.7	3842.3	288.2	259.7	250.2	261.1	312.7	295.0	224.4	186.2	182.1
75°	6372.6	2050.3	214.8	205.3	180.8	217.5	277.4	251.5	171.3	137.4	133.2
77.5°	2074.8	715.1	157.7	150.9	134.6	175.4	236.6	212.1	140.0	108.8	104.7
80°	556.1	216.2	107.4	99.2	87.0	130.5	187.7	168.6	100.7	70.7	69.4
82.5°	222.9	91.1	62.5	55.8	47.6	89.7	148.2	135.9	74.8	44.9	44.9
85°	72.1	29.9	23.2	17.6	21.7	55.8	88.4	92.5	53.0	23.2	17.6
87.5°	9.5	4.1	4.1	5.4	4.1	9.5	27.2	25.8	15.0	2.8	0.0
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)