

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: P971581

Luminaire Tested: **NVN-SB6D-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6D-830-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58345 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 440.1
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

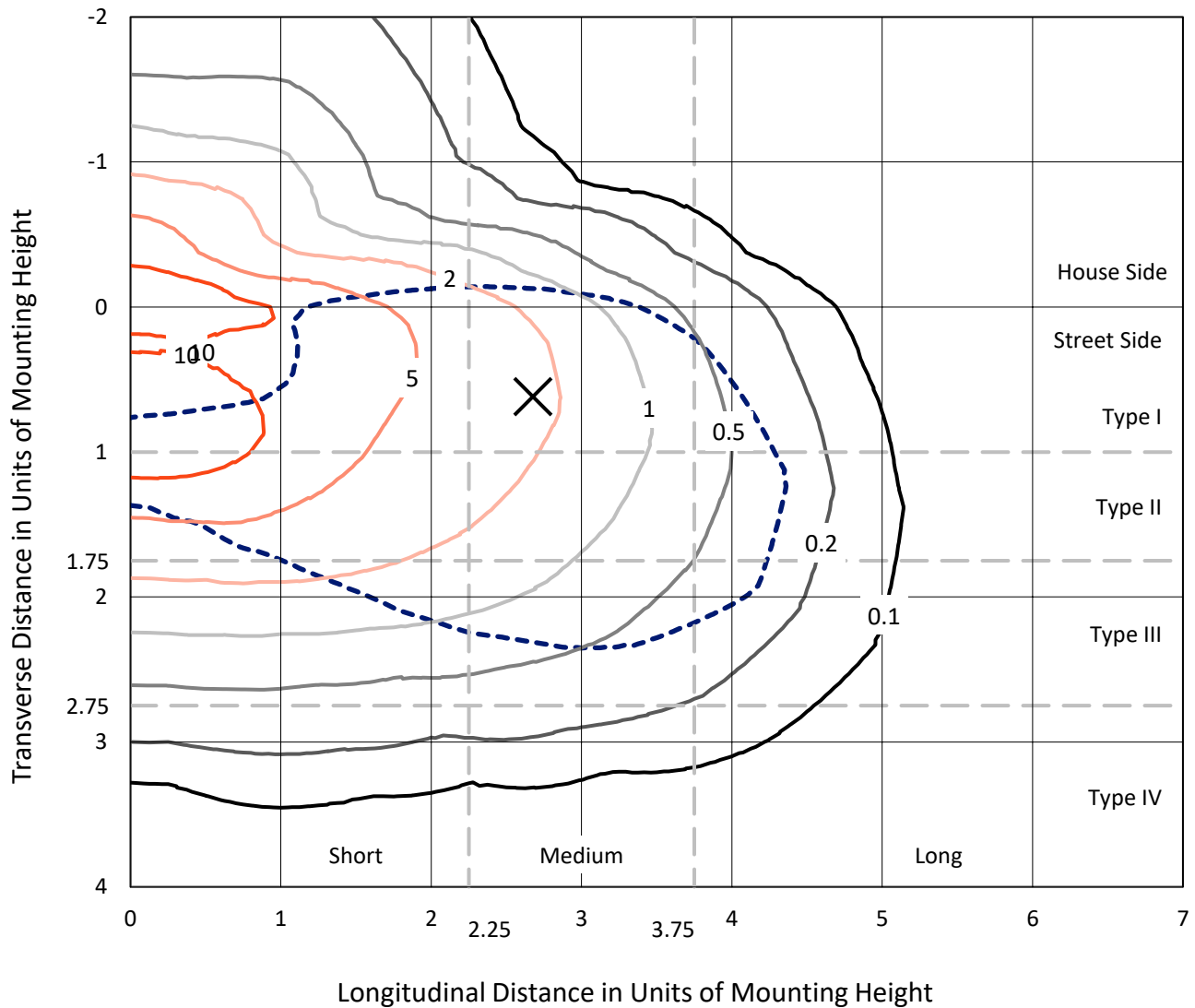


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Iso-Footcandle Lines of Horizontal Illumination

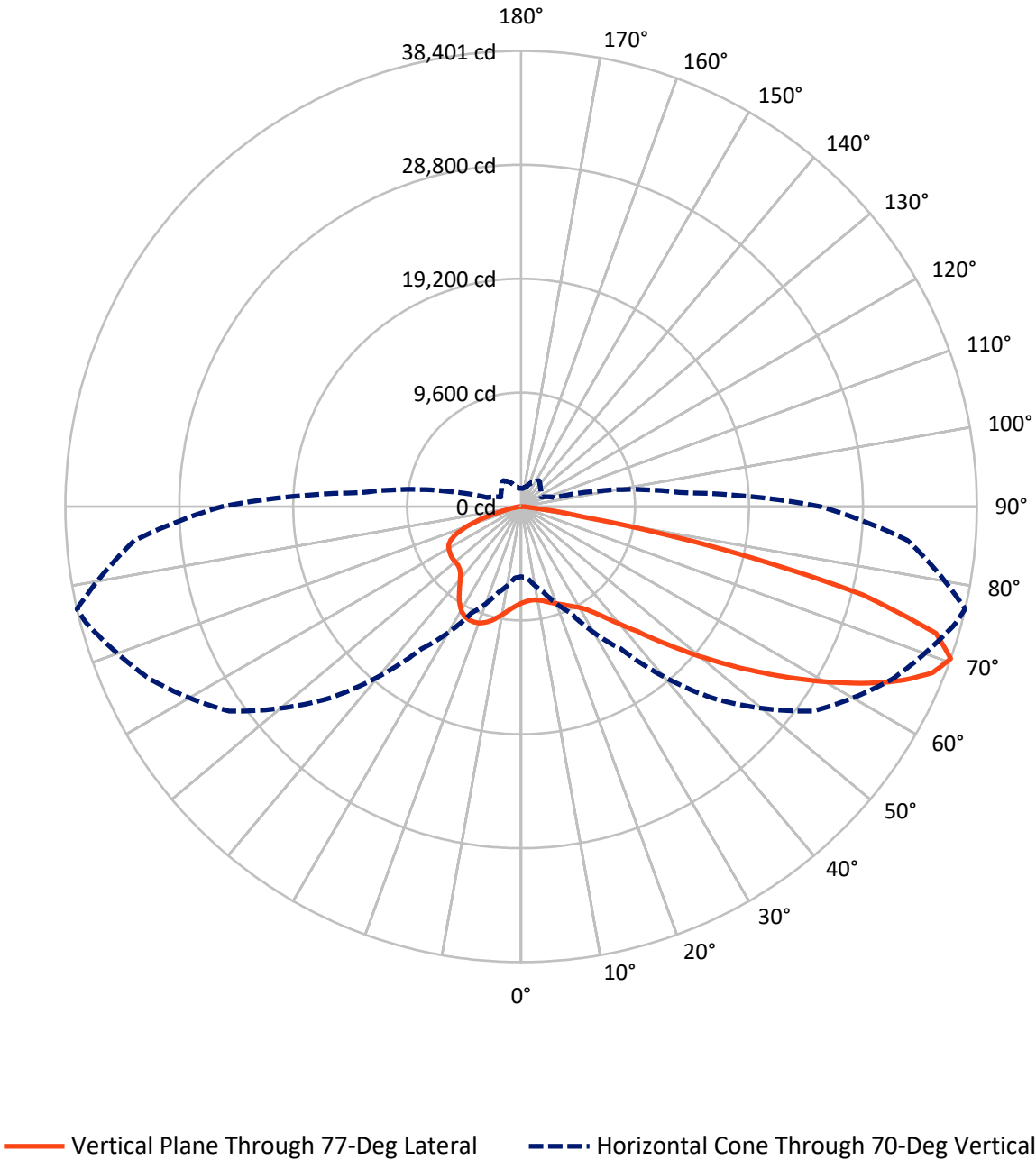
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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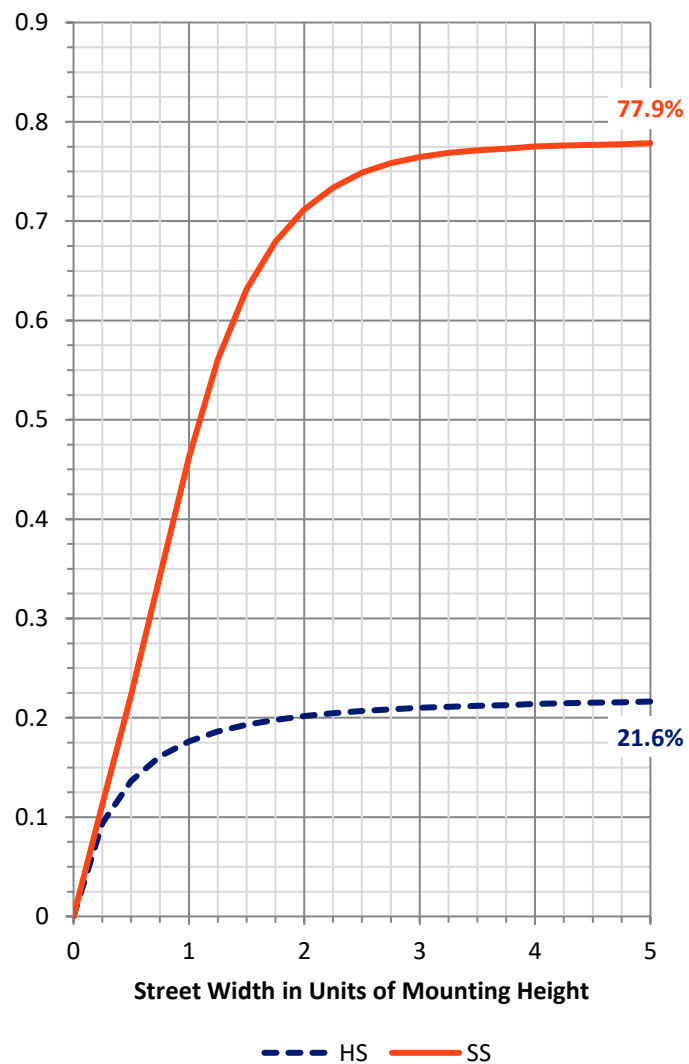
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12776.7	0.0	12776.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	45568.4	0.0	45568.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	58345.0	0.0	58345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.3	1.3
10°-20°	2240.5	3.8
20°-30°	3831.6	6.6
30°-40°	6161.5	10.6
40°-50°	9619.8	16.5
50°-60°	12849.7	22.0
60°-70°	13695.8	23.5
70°-80°	8431.1	14.5
80°-90°	738.8	1.3
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°	58345.0	100.0
0°-180°	58345.0	100.0

Coefficient of Utilization



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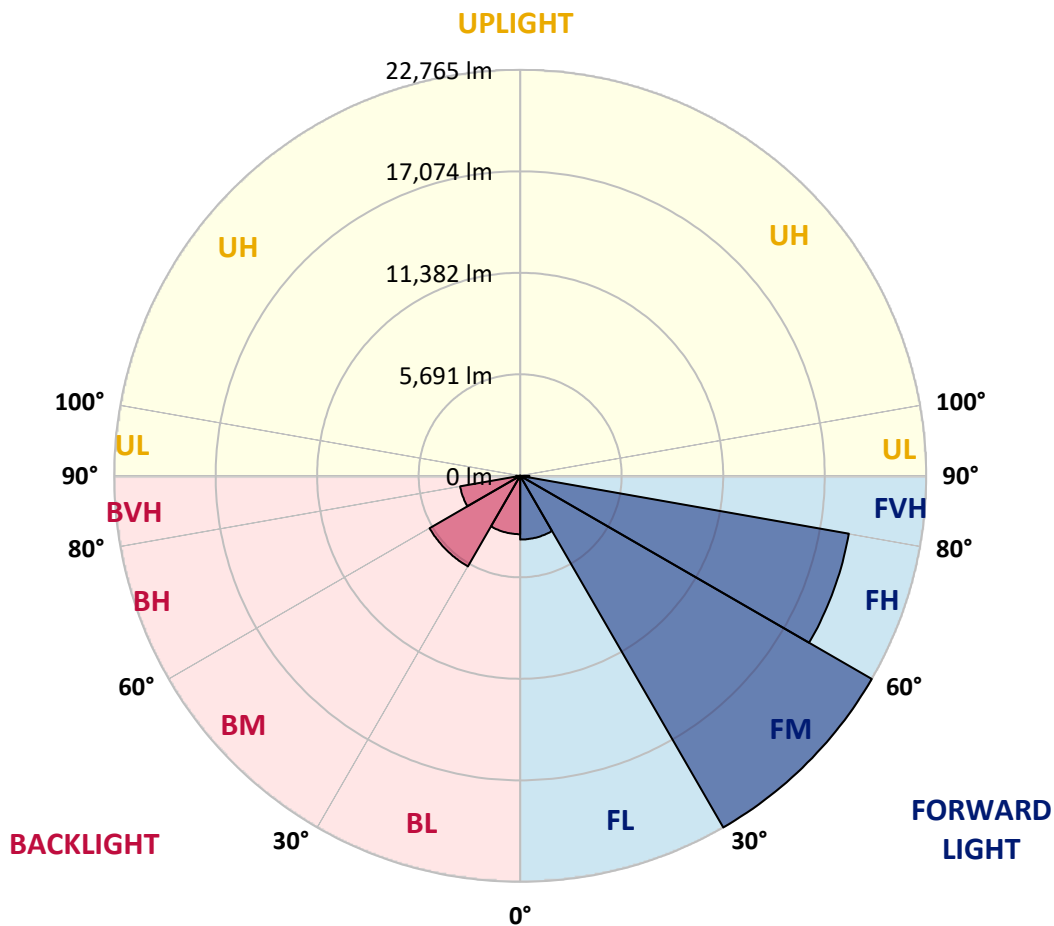
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3574.6	6.1			
FM	(30°-60°)	22765.0	39.0			
FH	(60°-80°)	18712.2	32.1			G5
FVH	(80°-90°)	516.6	0.9			G4/750
BL	(0°-30°)	3273.8	5.6	B4/5000		
BM	(30°-60°)	5866.0	10.1	B4/8500		
BH	(60°-80°)	3414.6	5.9	B4/5000		G4/5000
BVH	(80°-90°)	222.2	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	8139.6	8139.6	8139.6	8139.6	8139.6	8139.6	8139.6	8139.6	8139.6	8139.6	8139.6
2.5°	7503.2	7500.2	7539.1	7551.0	7622.7	7673.6	7769.1	7870.8	8002.2	8017.1	8097.8
5°	7069.9	7069.9	7114.7	7162.6	7255.2	7356.7	7503.2	7679.5	7906.5	7942.4	8142.7
7.5°	6702.4	6726.3	6765.1	6857.8	6965.3	7111.8	7335.8	7586.8	7885.6	7942.4	8265.2
10°	6406.6	6433.4	6481.3	6556.0	6717.3	6920.5	7213.3	7536.1	7936.5	8026.2	8444.5
12.5°	6313.9	6340.9	6367.7	6424.5	6573.8	6813.0	7162.6	7560.0	8059.0	8148.6	8689.4
15°	6529.0	6561.9	6541.0	6526.1	6603.8	6821.9	7186.5	7646.6	8211.4	8339.9	8991.3
17.5°	7025.1	7037.0	6989.3	6848.8	6836.9	6953.4	7300.0	7766.1	8402.6	8543.1	9296.0
20°	7825.9	7805.0	7706.4	7428.5	7270.1	7246.2	7494.2	7945.4	8599.9	8749.2	9624.8
22.5°	8913.6	8889.7	8692.5	8253.2	7900.6	7667.5	7775.1	8178.5	8820.9	8988.3	9944.4
25°	10270.2	10237.3	9947.5	9349.8	8803.0	8226.3	8157.6	8486.3	9092.9	9248.3	10279.2
27.5°	11853.9	11827.1	11513.3	10724.4	9935.5	8991.3	8632.8	8847.9	9376.8	9553.1	10655.7
30°	13557.2	13634.9	13079.0	12230.4	11232.4	9989.3	9272.2	9293.1	9744.3	9902.6	11112.8
32.5°	15559.2	15693.7	15024.3	13948.6	12586.0	11074.0	10078.9	9914.6	10279.2	10410.6	11689.6
35°	17543.3	17695.7	17139.9	15950.6	14381.9	12352.9	10921.6	10628.7	10990.4	11133.8	12454.6
37.5°	19258.5	19461.7	19174.9	18141.0	16303.2	13894.8	12021.2	11468.4	11865.9	12045.2	13482.4
40°	20612.1	20922.9	20902.0	20256.6	18568.3	15765.4	13416.7	12505.3	12953.5	13147.8	14728.5
42.5°	21711.8	21980.7	22213.8	22180.9	20931.8	17889.9	15057.1	13853.0	14193.6	14417.8	16129.9
45°	22470.8	22757.6	23259.6	23800.5	23205.8	20163.9	16936.7	15451.7	15762.3	16100.1	17800.3
47.5°	23149.0	23474.8	24126.1	24983.8	25136.2	22446.9	18995.5	17313.3	17597.1	17946.7	19476.6
50°	23208.8	23489.7	24499.7	25715.8	26507.7	24640.1	21206.7	19401.9	19667.9	20041.4	21272.5
52.5°	21765.6	22207.8	23970.8	25694.9	27138.2	26474.8	23403.0	21574.3	21873.1	22321.3	23131.1
55°	16894.9	17543.3	22419.9	24894.1	26914.0	27661.2	25491.7	23884.1	24266.6	24735.7	25001.7
57.5°	14552.2	14836.1	17797.3	23435.9	25892.1	27968.9	27254.7	26217.9	26833.4	27347.4	26979.8
60°	13079.0	13315.1	15066.2	21167.9	24547.5	27481.8	28617.3	28393.2	29457.0	30069.6	29002.8
62.5°	11501.3	11725.4	13318.1	17674.8	22826.3	26672.0	29477.9	30401.2	32146.3	32815.7	30909.2
65°	9935.5	10126.8	11653.7	14851.0	20639.0	25862.3	29923.1	32137.3	34635.5	35328.7	32492.9
67.5°	8190.5	8348.8	9792.1	12529.2	17979.6	24753.6	30144.2	33502.9	36801.8	37396.4	33275.8
70°	5910.6	6033.0	7524.1	9908.7	14641.8	22847.2	30054.6	34471.1	37925.3	38400.5	32684.2
72.5°	2793.9	2904.4	4655.5	6433.4	10341.9	19136.0	28240.8	33703.1	36783.9	36547.8	29062.5
75°	1491.1	1586.7	2674.3	3529.0	5462.3	13117.8	23110.2	29032.7	30888.3	29740.9	21478.7
77.5°	1010.0	1084.7	1655.4	2118.6	2495.1	6227.3	14854.0	20101.2	19339.2	17444.7	10757.3
80°	800.8	878.5	1356.6	1434.3	1207.2	2250.1	6137.6	9305.1	6684.4	5345.8	3059.8
82.5°	615.5	702.2	1141.4	1039.9	657.4	923.3	1786.9	2943.3	1712.2	1302.8	741.1
85°	376.5	469.1	896.5	663.4	370.5	421.4	606.6	818.8	523.0	436.2	266.0
87.5°	191.3	269.0	454.2	242.0	167.4	98.6	161.3	161.3	137.5	119.5	68.8
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°	8139.6	8139.6	8139.6	8139.6	8139.6	8139.6	8139.6	8139.6	8139.6	8139.6	8139.6
2.5°	8169.6	8229.3	8330.9	8426.5	8501.2	8572.9	8644.6	8683.5	8695.5	8743.2	8770.2
5°	8265.2	8375.7	8572.9	8758.2	8874.8	8946.5	8997.2	9027.2	9033.1	9048.1	9072.0
7.5°	8441.5	8617.8	8892.7	9077.9	9164.6	9158.6	9137.7	9063.0	9033.1	9006.3	9012.2
10°	8689.4	8922.5	9260.3	9388.7	9334.9	9191.5	9006.3	8788.0	8686.5	8587.9	8558.0
12.5°	8997.2	9293.1	9624.8	9618.8	9352.8	8985.4	8555.1	8220.3	8008.2	7855.8	7819.9
15°	9370.8	9711.5	9965.5	9762.2	9179.5	8519.2	7888.7	7452.4	7261.2	7093.8	7075.9
17.5°	9756.3	10120.7	10237.3	9717.4	8743.2	7828.9	7114.7	6771.2	6582.9	6493.2	6520.1
20°	10132.7	10494.4	10398.7	9460.4	8079.9	7046.1	6409.5	6221.2	6182.5	6203.4	6194.4
22.5°	10530.1	10852.9	10431.5	8964.3	7234.2	6245.2	5895.6	5901.5	5988.3	6051.0	6066.0
25°	10936.5	11154.7	10344.9	8247.3	6325.9	5656.6	5569.8	5665.5	5835.8	5958.3	5991.2
27.5°	11328.0	11423.6	10156.6	7359.8	5546.0	5235.2	5250.2	5447.4	5704.3	5874.7	5916.5
30°	11770.3	11662.7	9795.1	6361.8	5005.1	4873.7	4999.1	5229.2	5486.2	5638.6	5674.5
32.5°	12269.2	11868.9	9221.4	5438.4	4622.6	4583.8	4789.9	4939.4	5052.9	5097.7	5121.6
35°	12890.8	12158.7	8486.3	4789.9	4279.0	4371.6	4568.8	4494.1	4449.3	4425.4	4449.3
37.5°	13697.6	12550.1	7625.7	4368.7	4001.1	4219.2	4299.9	4066.9	3890.6	3803.9	3824.8
40°	14668.8	13123.9	6798.0	4042.9	3824.8	4087.8	3947.3	3666.4	3442.4	3319.8	3328.8
42.5°	15747.5	13724.4	6101.7	3797.9	3726.2	3980.2	3687.3	3352.7	2991.2	2952.3	2991.2
45°	16879.9	14343.0	5626.6	3609.6	3678.4	3887.5	3538.0	2997.1	2740.1	2898.5	2982.1
47.5°	18012.4	14910.8	5339.7	3469.2	3654.4	3783.0	3406.5	2799.9	2617.6	2847.7	2955.3
50°	19273.5	15418.8	5211.3	3367.6	3627.6	3741.1	3209.3	2749.0	2489.1	2641.5	2755.1
52.5°	20525.4	15813.2	5115.7	3266.1	3588.7	3708.2	3113.6	2689.3	2333.7	2342.7	2405.5
55°	21774.5	16070.2	5011.1	3131.6	3502.1	3636.6	3104.6	2623.6	2217.2	2175.4	2205.3
57.5°	23107.2	16216.6	4882.6	2982.1	3352.7	3454.2	3095.7	2572.8	2181.3	2112.6	2121.5
60°	24463.8	16431.8	4715.3	2799.9	3152.5	3236.1	3074.8	2554.8	2160.4	2043.8	2052.9
62.5°	25679.9	16506.4	4515.0	2626.6	2895.5	3021.0	3030.0	2540.0	2103.6	1903.4	1903.4
65°	26477.8	16183.7	4165.5	2429.4	2617.6	2799.9	2943.3	2489.1	2002.0	1801.8	1801.8
67.5°	26445.0	15263.4	3618.7	2175.4	2348.7	2554.8	2817.8	2402.5	1879.5	1676.4	1685.3
70°	25213.9	13446.6	2925.4	1879.5	2052.9	2291.9	2656.5	2274.0	1733.1	1538.9	1556.8
72.5°	21625.1	10524.2	2124.5	1532.9	1709.2	2020.0	2447.3	2118.6	1583.7	1416.3	1407.4
75°	15448.6	6660.6	1440.3	1177.3	1329.7	1712.2	2187.4	1936.3	1446.3	1422.4	1341.6
77.5°	7891.7	3182.3	953.2	860.6	926.3	1350.6	1837.7	1730.1	1467.2	1174.3	1045.8
80°	2566.8	1174.3	600.6	585.7	615.5	899.4	1422.4	1419.3	1111.6	797.9	705.2
82.5°	818.8	505.0	391.4	376.5	361.5	564.8	992.1	1123.5	750.0	505.0	502.0
85°	325.7	301.8	230.1	212.2	152.4	266.0	520.0	747.0	558.8	364.6	373.5
87.5°	119.5	119.5	62.7	44.8	32.9	89.7	140.4	224.1	319.7	188.3	185.2
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)