

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: P965231

Luminaire Tested: **NVN-SB3D-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965231
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-SB3D-827-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27160.4 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

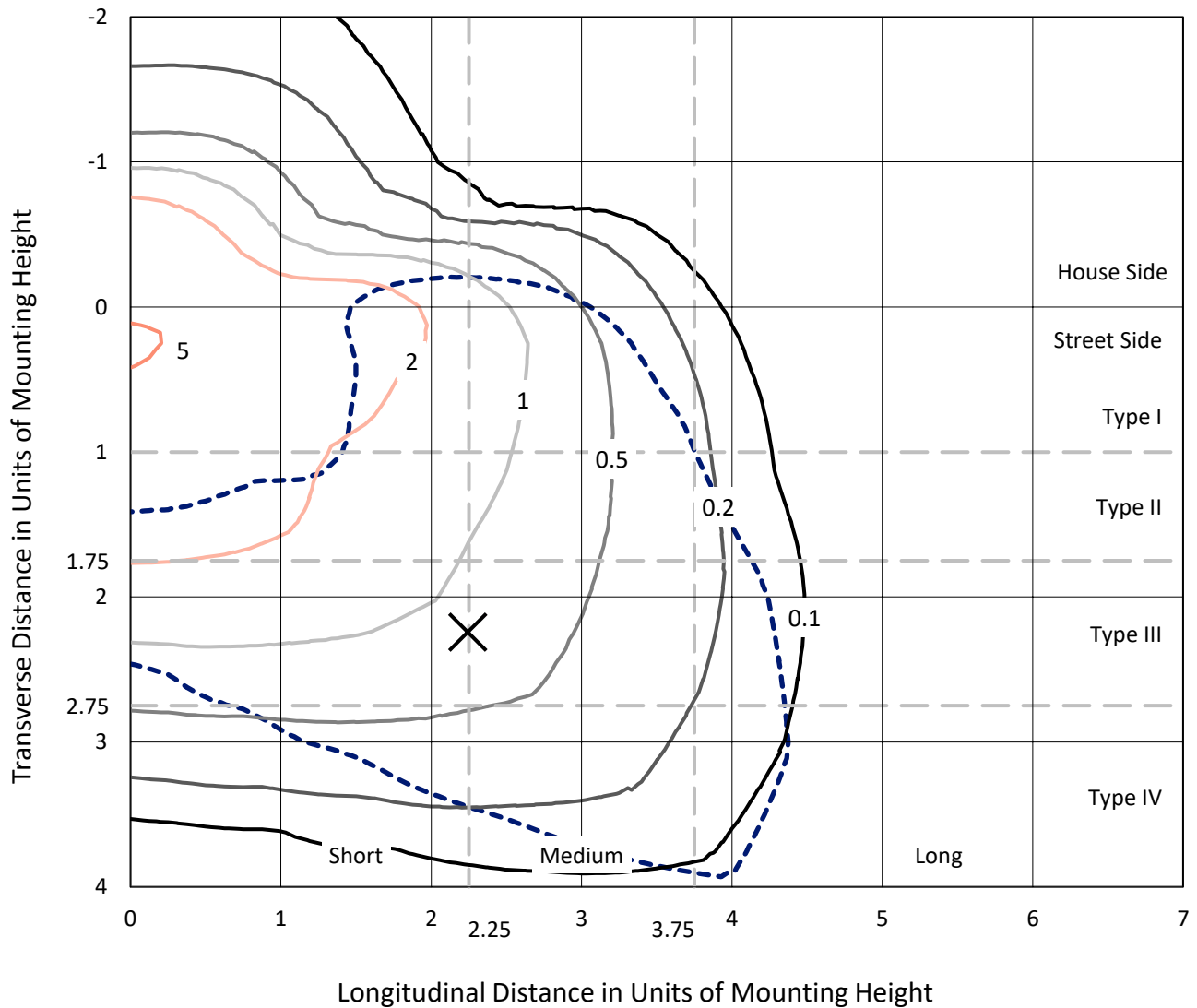
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

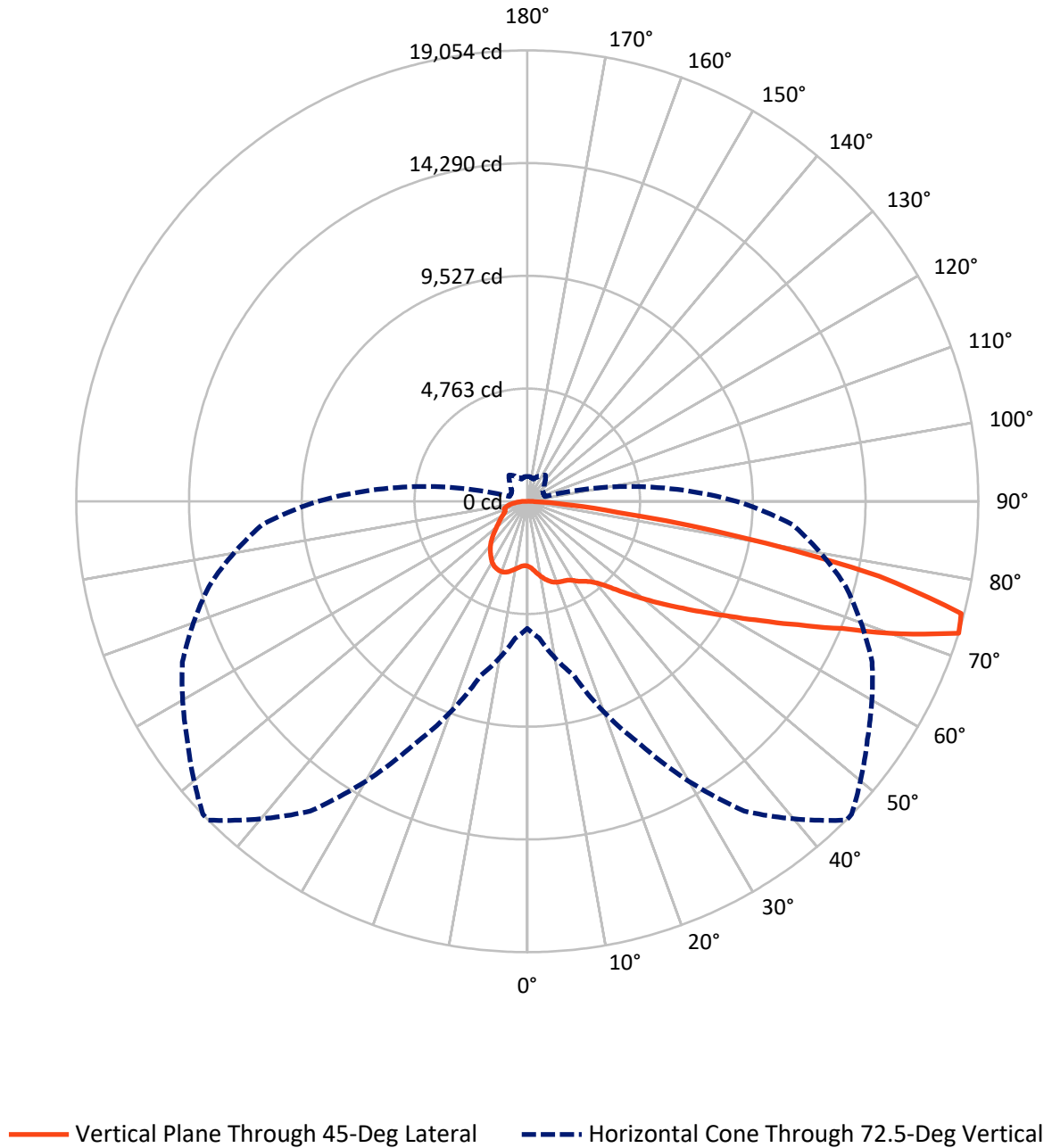
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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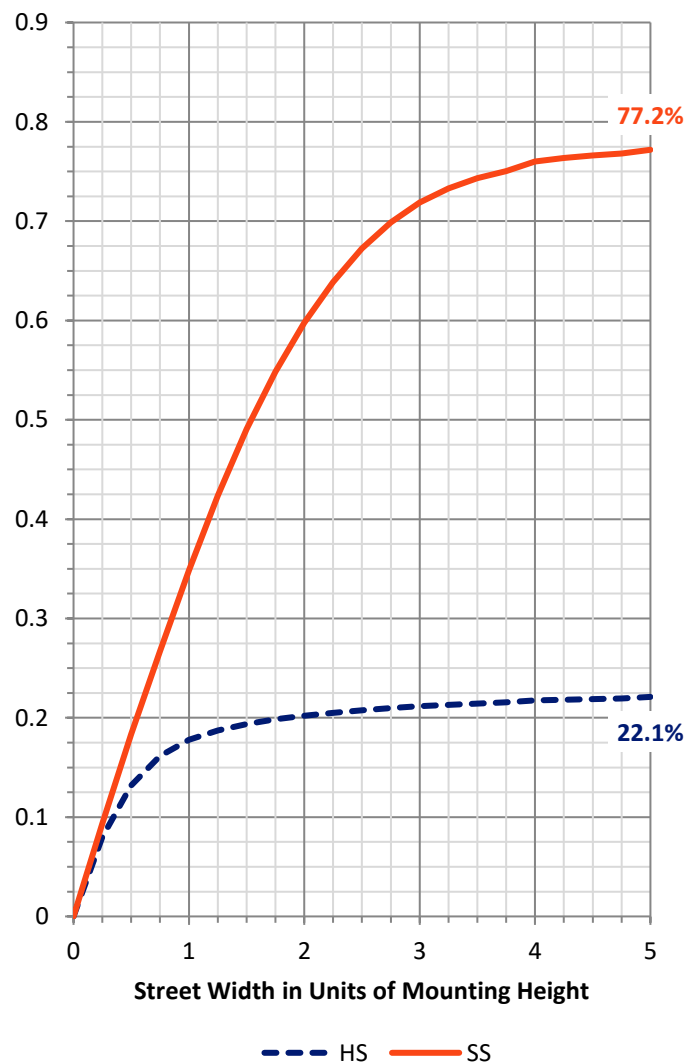
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6140.0	0.0	6140.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21020.4	0.0	21020.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	27160.4	0.0	27160.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	1.0
10°-20°	929.8	3.4
20°-30°	1617.4	6.0
30°-40°	2318.7	8.5
40°-50°	3264.9	12.0
50°-60°	5000.8	18.4
60°-70°	7244.4	26.7
70°-80°	5785.1	21.3
80°-90°	720.5	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°	27160.4	100.0
0°-180°	27160.4	100.0

Coefficient of Utilization



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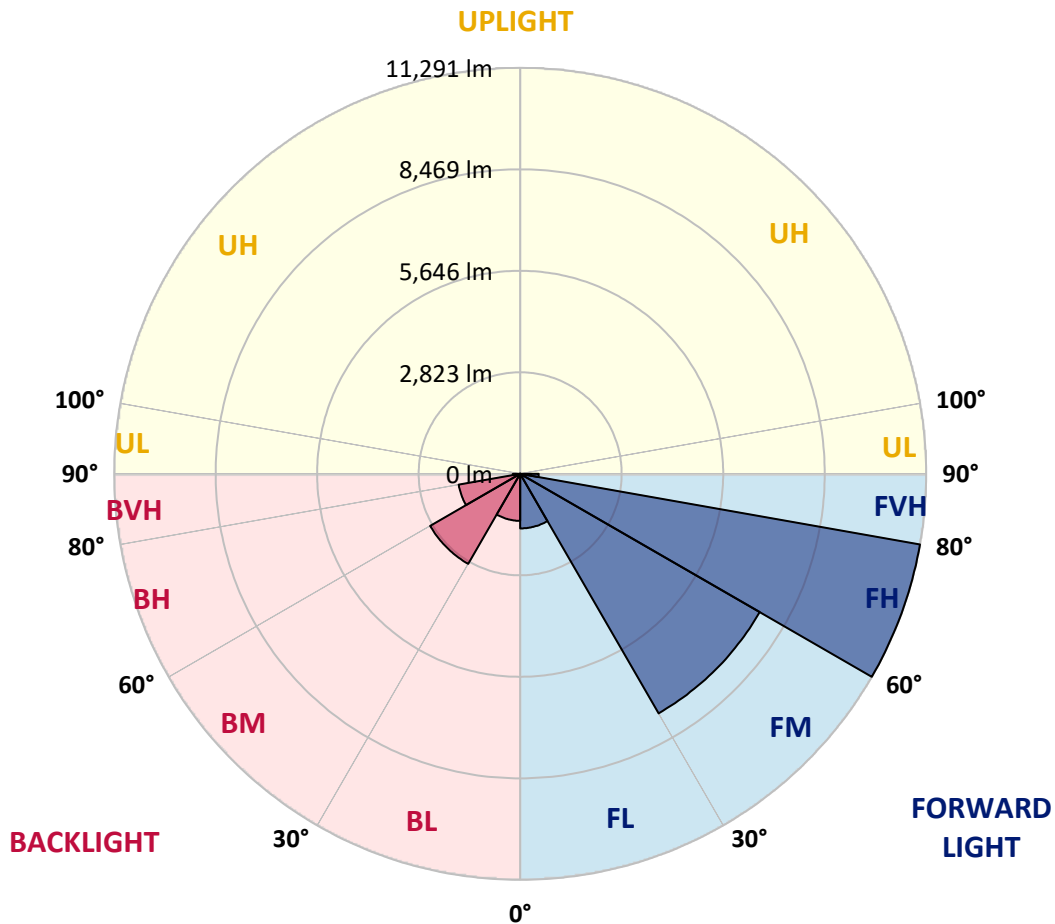
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1518.9	5.6			
FM (30°-60°)	7693.2	28.3			
FH (60°-80°)	11291.4	41.6			G4/12000
FVH (80°-90°)	516.9	1.9			G4/750
BL (0°-30°)	1307.3	4.8	B3/2500		
BM (30°-60°)	2891.1	10.6	B3/5000		
BH (60°-80°)	1738.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	203.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2739.9	2739.9	2739.9	2739.9	2739.9	2739.9	2739.9	2739.9	2739.9	2739.9	2739.9
2.5°	2847.2	2865.9	2848.7	2833.0	2825.8	2807.2	2805.7	2794.4	2787.2	2767.2	2761.5
5°	3046.2	3070.5	3041.9	3010.4	2981.7	2936.0	2930.3	2897.4	2860.2	2817.2	2792.9
7.5°	3270.8	3292.2	3259.3	3212.1	3162.0	3086.2	3084.7	3024.7	2966.0	2893.1	2851.5
10°	3466.8	3495.5	3451.1	3386.7	3323.8	3237.9	3227.8	3159.2	3084.7	2990.3	2927.4
12.5°	3639.9	3660.0	3617.0	3538.3	3465.3	3379.5	3366.6	3290.9	3207.8	3100.5	3020.4
15°	3777.3	3803.1	3745.8	3661.4	3584.1	3499.8	3488.3	3419.6	3336.6	3223.5	3120.5
17.5°	3867.4	3888.8	3830.2	3735.8	3661.4	3591.3	3582.7	3525.5	3452.5	3338.0	3227.8
20°	3901.8	3924.6	3863.1	3767.3	3698.6	3644.2	3639.9	3598.5	3548.3	3443.9	3332.3
22.5°	3936.1	3957.5	3877.5	3777.3	3717.2	3682.8	3681.4	3654.2	3634.2	3548.3	3439.6
25°	4074.9	4080.6	3973.3	3828.8	3743.0	3712.9	3711.4	3710.0	3718.6	3651.4	3555.5
27.5°	4195.1	4193.7	4102.0	3966.1	3833.1	3770.2	3768.7	3783.0	3810.2	3754.4	3675.6
30°	4371.0	4355.3	4246.6	4104.9	3983.4	3886.0	3877.5	3864.6	3886.0	3841.7	3795.9
32.5°	4744.5	4694.4	4518.4	4266.6	4107.8	4033.4	4022.0	3941.8	3950.5	3923.2	3900.3
35°	5279.6	5213.8	4979.1	4572.8	4262.4	4156.5	4150.7	4049.2	4031.9	4007.6	4016.3
37.5°	5916.3	5834.7	5561.4	5016.3	4528.4	4299.6	4291.0	4199.3	4129.2	4103.5	4152.2
40°	6555.9	6452.9	6226.8	5557.1	4920.5	4538.5	4511.2	4372.4	4292.4	4249.4	4352.5
42.5°	7176.8	7091.0	6897.8	6163.8	5404.1	4887.6	4827.4	4590.0	4529.9	4489.8	4675.8
45°	7726.2	7649.0	7507.3	6811.9	5970.7	5362.6	5304.0	4916.2	4897.6	4897.6	5166.6
47.5°	8172.6	8155.5	8005.2	7473.0	6638.8	5903.4	5801.8	5369.8	5419.8	5497.1	5863.4
50°	8667.7	8620.5	8460.2	8124.0	7424.4	6523.0	6440.0	5926.3	6113.7	6325.5	6870.7
52.5°	9122.7	9148.4	8969.6	8802.2	8311.4	7214.1	7068.1	6583.1	6987.9	7338.5	8051.1
55°	9590.6	9592.1	9541.9	9519.1	9241.5	7978.1	7817.9	7372.8	8016.7	8451.6	9427.4
57.5°	10029.8	10032.7	10107.1	10308.8	10320.3	8859.5	8677.8	8342.9	9159.9	9603.4	10846.9
60°	10421.9	10441.9	10645.0	11117.3	11268.8	9869.6	9697.9	9489.0	10341.7	10788.1	12339.2
62.5°	10553.5	10626.5	11078.6	11749.7	12206.1	11108.6	10939.8	10815.3	11583.6	11998.5	13586.8
65°	10330.3	10497.7	11371.9	12271.9	13170.4	12581.0	12413.6	12277.6	12874.2	13264.8	14611.2
67.5°	9782.3	9998.4	11354.7	12819.9	14340.8	14352.3	14196.2	13877.3	14257.9	14408.0	14944.6
70°	8338.7	8662.0	10354.7	13024.5	15684.3	16774.5	16624.4	15803.0	15638.5	14911.7	14006.0
72.5°	5372.6	5807.5	7624.7	11340.4	15983.3	19053.8	19045.2	17541.4	16074.9	13933.0	11233.1
75°	1960.2	2226.3	3542.6	7118.2	13416.5	18937.9	18993.8	17243.9	14674.2	10762.4	6998.0
77.5°	713.9	781.3	1156.1	2735.6	8251.4	15195.0	15310.8	13785.6	10444.8	5401.2	2772.8
80°	374.8	412.0	592.3	1061.7	3535.4	9024.0	9205.7	8192.7	4909.0	1626.8	831.3
82.5°	207.5	224.7	331.9	576.6	1592.4	3858.8	3967.6	3236.4	1726.9	689.6	343.4
85°	111.6	118.8	156.0	314.8	778.4	1337.8	1367.9	967.2	688.2	404.9	165.9
87.5°	32.9	40.1	51.6	100.1	304.7	300.4	307.6	191.7	271.8	204.6	54.3
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°	2739.9	2739.9	2739.9	2739.9	2739.9	2739.9	2739.9	2739.9	2739.9	2739.9	2739.9
2.5°	2752.8	2748.5	2732.9	2725.7	2717.1	2715.6	2722.8	2724.2	2725.7	2727.1	2732.9
5°	2778.6	2764.3	2750.0	2741.4	2744.2	2745.7	2760.0	2770.0	2777.1	2782.9	2785.7
7.5°	2828.7	2817.2	2792.9	2791.5	2795.8	2808.6	2827.3	2850.1	2863.0	2873.1	2875.8
10°	2903.1	2881.6	2853.0	2857.3	2865.9	2884.5	2923.1	2941.7	2963.2	2981.7	2977.5
12.5°	2978.9	2960.3	2927.4	2930.3	2944.5	2977.5	3014.6	3037.6	3051.8	3066.2	3071.9
15°	3077.7	3044.8	3009.0	3009.0	3034.7	3070.5	3087.6	3106.3	3114.9	3130.6	3136.3
17.5°	3179.2	3136.3	3089.0	3086.2	3117.6	3134.9	3144.9	3147.8	3150.6	3167.8	3173.5
20°	3280.8	3233.6	3166.3	3160.6	3167.8	3164.9	3163.5	3160.6	3164.9	3186.4	3194.9
22.5°	3381.0	3326.5	3233.6	3207.8	3187.7	3160.6	3159.2	3157.7	3160.6	3182.1	3196.4
25°	3498.3	3432.4	3308.0	3230.7	3163.5	3126.2	3130.6	3132.0	3134.9	3152.0	3174.9
27.5°	3625.6	3552.6	3376.7	3223.5	3102.0	3076.2	3069.1	3073.4	3083.3	3110.6	3137.7
30°	3752.9	3667.1	3439.6	3194.9	3024.7	2988.9	2966.0	2976.1	3007.6	3034.7	3064.7
32.5°	3868.9	3783.0	3489.7	3132.0	2926.0	2870.2	2840.1	2853.0	2884.5	2894.5	2930.3
35°	4004.8	3907.5	3511.1	3031.8	2818.6	2732.9	2692.8	2674.1	2689.9	2679.9	2711.3
37.5°	4156.5	4054.9	3508.3	2900.2	2692.8	2594.1	2538.2	2468.1	2435.2	2400.9	2422.3
40°	4381.1	4235.1	3473.9	2741.4	2536.8	2446.7	2346.5	2227.7	2153.3	2086.1	2090.4
42.5°	4687.2	4485.5	3411.0	2566.8	2360.8	2276.4	2140.5	2001.7	1884.4	1772.7	1762.7
45°	5143.7	4813.2	3332.3	2380.9	2170.5	2087.5	1940.1	1784.2	1651.2	1508.1	1490.9
47.5°	5801.8	5253.8	3257.9	2169.1	1970.2	1894.4	1761.3	1616.8	1459.4	1320.6	1304.9
50°	6706.1	5886.3	3189.2	1963.1	1772.7	1715.5	1609.7	1462.3	1303.5	1191.9	1184.7
52.5°	7856.4	6746.1	3160.6	1764.1	1588.1	1566.7	1482.3	1344.9	1194.7	1100.2	1093.2
55°	9177.0	7774.9	3160.6	1573.9	1426.5	1433.7	1375.0	1247.6	1117.5	1033.0	1024.5
57.5°	10524.9	8816.5	3103.4	1397.9	1289.1	1319.2	1282.0	1170.3	1053.1	965.8	951.5
60°	11766.8	9689.3	2871.6	1237.6	1167.5	1214.7	1190.4	1094.6	951.5	878.5	867.0
62.5°	12721.2	10181.5	2425.1	1110.3	1067.3	1121.8	1108.8	994.4	932.9	902.8	892.8
65°	13199.0	10101.4	1854.3	997.2	983.0	1067.3	1040.2	1035.9	987.3	952.9	941.5
67.5°	12905.7	9411.8	1344.9	914.3	934.3	1017.3	1121.8	1138.9	1048.8	981.5	970.1
70°	11619.4	8164.1	1001.5	835.6	872.8	1018.7	1279.1	1191.9	1028.7	950.1	937.2
72.5°	8839.4	6088.0	776.9	752.6	792.6	1025.9	1349.2	1167.5	971.5	1050.2	1041.6
75°	5055.0	3342.3	623.8	651.0	692.5	958.6	1313.4	1104.5	927.1	964.3	964.3
77.5°	1927.3	1284.8	515.1	550.8	556.6	837.0	1256.2	1100.2	882.8	861.3	785.5
80°	668.2	502.2	426.4	437.8	430.7	744.0	1204.7	957.2	722.5	646.7	625.2
82.5°	273.3	250.4	337.6	323.4	306.2	578.0	972.9	782.7	590.9	522.2	516.5
85°	118.8	158.8	223.2	196.0	177.4	400.6	779.8	662.5	499.4	430.7	429.3
87.5°	24.3	60.1	94.4	88.7	91.5	267.5	553.7	470.7	353.4	264.7	207.5
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)