

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: P965226

Luminaire Tested: **NVN-SB3D-827-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965226  
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-SB3D-827-U-T3R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

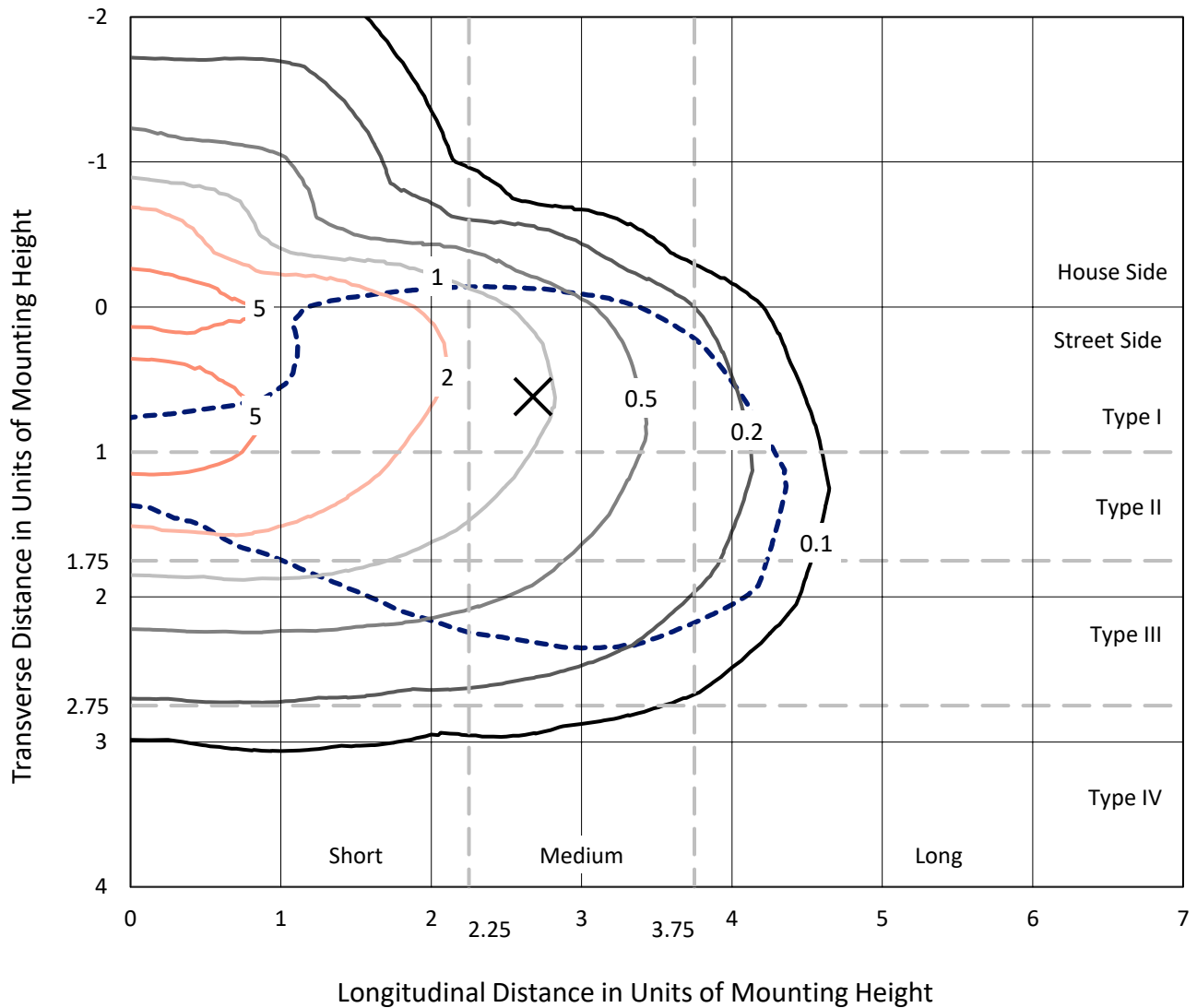
Lumens per Lamp: N/A  
Luminaire Lumens: 27937.4 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): 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

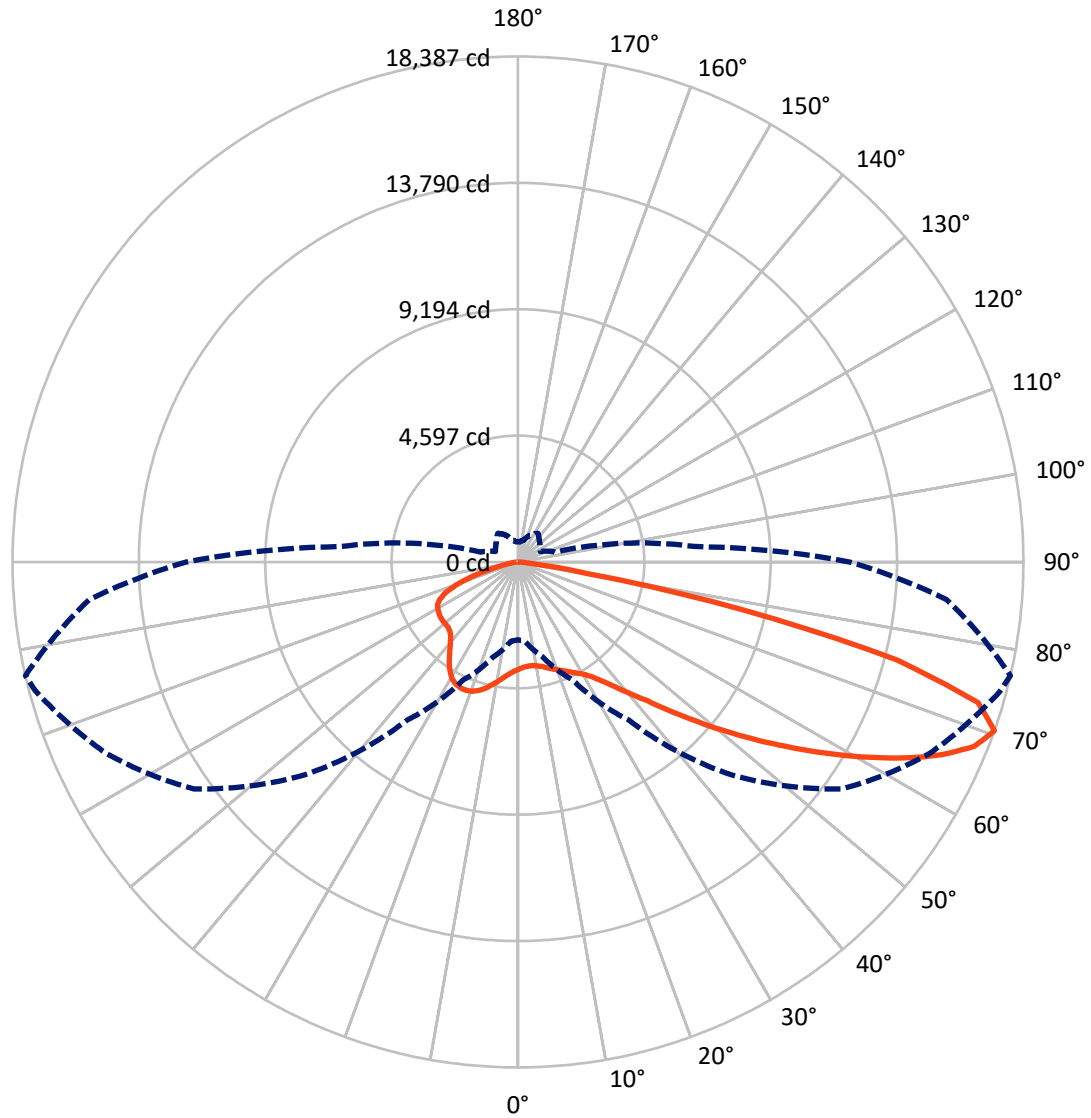
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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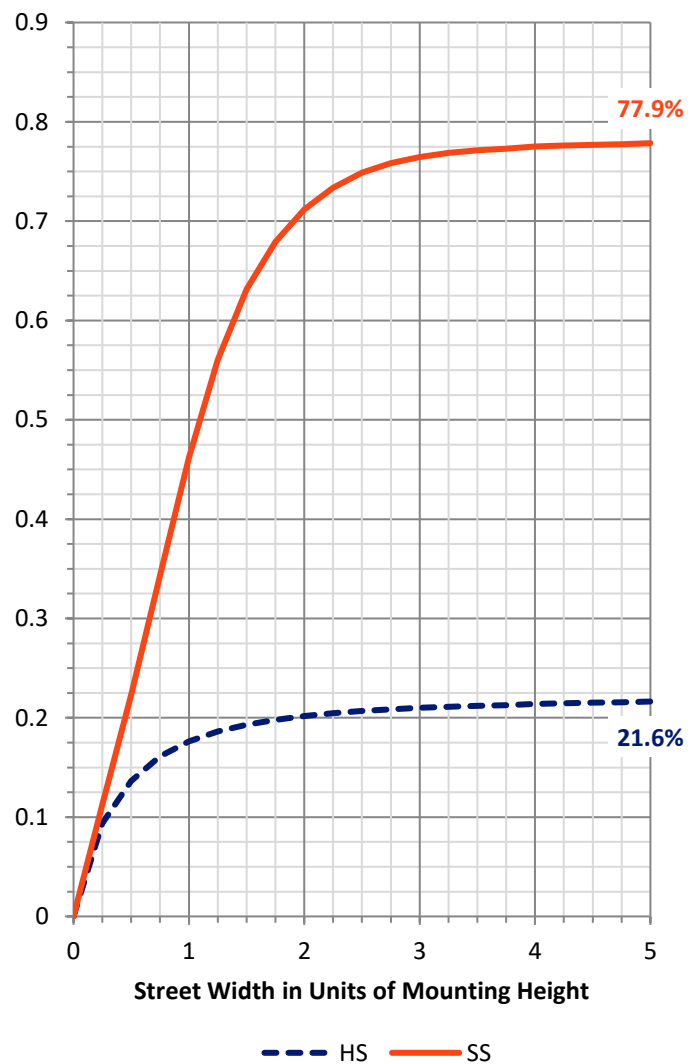
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6117.9	0.0	6117.9
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	21819.5	0.0	21819.5
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	27937.4	0.0	27937.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.7	1.3
10°-20°	1072.8	3.8
20°-30°	1834.7	6.6
30°-40°	2950.3	10.6
40°-50°	4606.2	16.5
50°-60°	6152.8	22.0
60°-70°	6558.0	23.5
70°-80°	4037.0	14.5
80°-90°	353.8	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°	27937.4	100.0
0°-180°	27937.4	100.0

**Coefficient of Utilization**



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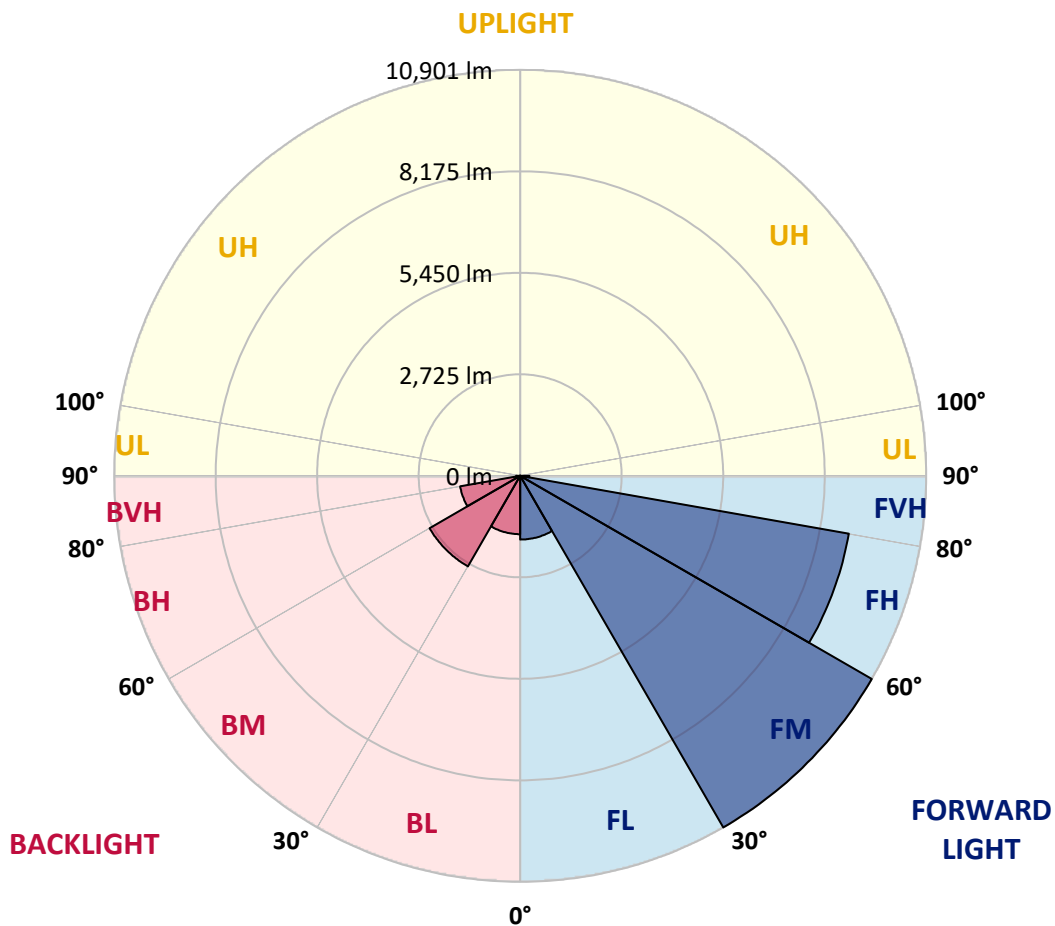
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1711.6	6.1			
FM (30°-60°)	10900.6	39.0			
FH (60°-80°)	8960.0	32.1			G4/12000
FVH (80°-90°)	247.4	0.9			G3/500
BL (0°-30°)	1567.6	5.6	B3/2500		
BM (30°-60°)	2808.8	10.1	B3/5000		
BH (60°-80°)	1635.0	5.9	B3/2500		G3/2500
BVH (80°-90°)	106.4	0.4			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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3897.6	3897.6	3897.6	3897.6	3897.6	3897.6	3897.6	3897.6	3897.6	3897.6	3897.6
2.5°	3592.7	3591.3	3609.9	3615.7	3650.0	3674.3	3720.1	3768.7	3831.7	3838.8	3877.5
5°	3385.3	3385.3	3406.8	3429.6	3474.0	3522.6	3592.7	3677.2	3785.9	3803.1	3899.0
7.5°	3209.3	3220.8	3239.3	3283.7	3335.2	3405.4	3512.7	3632.8	3775.9	3803.1	3957.6
10°	3067.6	3080.5	3103.4	3139.2	3216.4	3313.7	3453.9	3608.5	3800.2	3843.1	4043.4
12.5°	3023.3	3036.2	3049.1	3076.2	3147.8	3262.3	3429.6	3620.0	3858.9	3901.8	4160.8
15°	3126.4	3142.0	3132.0	3124.9	3162.1	3266.6	3441.1	3661.4	3931.9	3993.4	4305.3
17.5°	3363.8	3369.6	3346.6	3279.4	3273.6	3329.5	3495.5	3718.7	4023.4	4090.7	4451.3
20°	3747.3	3737.3	3690.1	3557.0	3481.2	3469.7	3588.4	3804.5	4117.8	4189.4	4608.6
22.5°	4268.1	4256.6	4162.2	3951.9	3783.1	3671.4	3723.0	3916.1	4223.7	4303.9	4761.7
25°	4917.6	4902.0	4763.2	4477.0	4215.2	3939.0	3906.1	4063.5	4354.0	4428.3	4921.9
27.5°	5676.0	5663.1	5512.9	5135.1	4757.4	4305.3	4133.6	4236.6	4489.9	4574.3	5102.2
30°	6491.5	6528.7	6262.6	5856.3	5378.4	4783.2	4439.8	4449.8	4665.9	4741.6	5321.2
32.5°	7450.2	7514.6	7194.1	6679.0	6026.6	5302.5	4826.1	4747.4	4921.9	4985.0	5597.3
35°	8400.3	8473.3	8207.1	7637.7	6886.5	5915.0	5229.7	5089.4	5262.6	5331.2	5963.7
37.5°	9221.5	9318.9	9181.5	8686.5	7806.5	6653.3	5756.1	5491.4	5681.8	5767.6	6455.8
40°	9869.7	10018.6	10008.5	9699.5	8891.1	7548.9	6424.3	5987.9	6202.6	6295.5	7052.4
42.5°	10396.3	10525.0	10636.6	10620.8	10022.9	8566.2	7209.8	6633.2	6796.4	6903.7	7723.5
45°	10759.6	10897.1	11137.4	11396.4	11111.6	9655.1	8109.8	7398.8	7547.5	7709.2	8523.3
47.5°	11084.5	11240.5	11552.4	11963.0	12036.0	10748.3	9095.6	8290.1	8426.0	8593.4	9326.0
50°	11113.0	11247.6	11731.2	12313.5	12692.7	11798.5	10154.5	9290.2	9417.6	9596.5	10185.9
52.5°	10422.0	10633.8	11477.9	12303.5	12994.6	12677.0	11206.1	10330.5	10473.6	10688.2	11075.8
55°	8089.8	8400.3	10735.3	11920.0	12887.3	13244.9	12206.2	11436.4	11619.6	11844.2	11971.6
57.5°	6968.1	7104.0	8521.8	11221.8	12398.0	13392.3	13050.4	12553.9	12848.7	13094.8	12918.8
60°	6262.6	6375.7	7214.2	10135.8	11754.1	13159.2	13702.8	13595.5	14104.9	14398.2	13887.4
62.5°	5507.2	5614.5	6377.1	8463.2	10930.0	12771.4	14115.0	14557.0	15392.6	15713.1	14800.3
65°	4757.4	4849.0	5580.2	7111.1	9882.6	12383.6	14328.1	15388.3	16584.5	16916.5	15558.6
67.5°	3921.9	3997.7	4688.8	5999.4	8609.2	11852.8	14433.9	16042.3	17621.8	17906.5	15933.5
70°	2830.1	2888.8	3602.8	4744.5	7011.0	10939.9	14391.1	16505.8	18159.8	18387.3	15650.2
72.5°	1337.8	1390.7	2229.2	3080.5	4952.0	9162.9	13522.6	16138.1	17613.3	17500.2	13916.0
75°	714.0	759.7	1280.5	1689.8	2615.5	6281.2	11065.9	13901.8	14790.2	14240.8	10284.6
77.5°	483.6	519.4	792.6	1014.4	1194.7	2981.8	7112.6	9625.1	9260.2	8353.0	5150.9
80°	383.5	420.7	649.5	686.7	578.0	1077.4	2938.9	4455.6	3200.8	2559.7	1465.1
82.5°	294.8	336.2	546.5	497.9	314.8	442.1	855.7	1409.4	819.9	623.8	354.9
85°	180.3	224.7	429.3	317.6	177.4	201.7	290.5	392.1	250.4	208.9	127.3
87.5°	91.5	128.7	217.5	115.9	80.2	47.3	77.3	77.3	65.8	57.2	32.9
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°	3897.6	3897.6	3897.6	3897.6	3897.6	3897.6	3897.6	3897.6	3897.6	3897.6	3897.6
2.5°	3911.8	3940.4	3989.1	4034.9	4070.7	4105.0	4139.4	4157.9	4163.7	4186.5	4199.4
5°	3957.6	4010.5	4105.0	4193.7	4249.5	4283.9	4308.2	4322.4	4325.3	4332.5	4344.0
7.5°	4042.0	4126.4	4258.1	4346.8	4388.3	4385.5	4375.4	4339.6	4325.3	4312.5	4315.4
10°	4160.8	4272.4	4434.0	4495.6	4469.8	4401.1	4312.5	4208.0	4159.3	4112.1	4097.8
12.5°	4308.2	4449.8	4608.6	4605.7	4478.4	4302.4	4096.4	3936.2	3834.5	3761.5	3744.4
15°	4487.0	4650.1	4771.8	4674.4	4395.4	4079.2	3777.3	3568.4	3476.9	3396.7	3388.1
17.5°	4671.5	4846.1	4902.0	4653.0	4186.5	3748.7	3406.8	3242.2	3152.1	3109.1	3122.0
20°	4851.8	5025.0	4979.2	4530.0	3868.9	3373.9	3069.1	2979.0	2960.3	2970.3	2966.0
22.5°	5042.2	5196.6	4994.9	4292.4	3464.0	2990.4	2823.0	2825.8	2867.3	2897.4	2904.5
25°	5236.7	5341.2	4953.4	3949.0	3029.0	2708.6	2667.0	2712.8	2794.4	2853.0	2868.8
27.5°	5424.2	5470.0	4863.3	3524.1	2655.6	2506.7	2513.9	2608.3	2731.4	2813.0	2833.0
30°	5636.0	5584.4	4690.2	3046.2	2396.7	2333.6	2393.8	2503.9	2627.0	2700.0	2717.1
32.5°	5874.9	5683.2	4415.5	2604.1	2213.5	2194.8	2293.5	2365.1	2419.5	2440.9	2452.4
35°	6172.5	5822.0	4063.5	2293.5	2048.9	2093.3	2187.7	2151.9	2130.5	2119.0	2130.5
37.5°	6558.9	6009.4	3651.5	2091.8	1915.8	2020.3	2058.9	1947.3	1862.9	1821.4	1831.5
40°	7023.8	6284.1	3255.1	1935.9	1831.5	1957.3	1890.1	1755.6	1648.3	1589.7	1593.9
42.5°	7540.3	6571.7	2921.7	1818.6	1784.2	1905.9	1765.7	1605.4	1432.2	1413.7	1432.2
45°	8082.6	6867.9	2694.2	1728.5	1761.4	1861.5	1694.1	1435.1	1312.1	1387.8	1427.9
47.5°	8624.9	7139.7	2556.9	1661.2	1749.9	1811.4	1631.1	1340.7	1253.4	1363.6	1415.1
50°	9228.7	7383.0	2495.4	1612.5	1737.0	1791.4	1536.7	1316.3	1191.9	1264.8	1319.2
52.5°	9828.2	7571.9	2449.5	1563.8	1718.4	1775.6	1490.9	1287.7	1117.5	1121.8	1151.8
55°	10426.3	7694.9	2399.4	1499.5	1676.9	1741.3	1486.7	1256.2	1061.7	1041.6	1056.0
57.5°	11064.5	7765.0	2337.9	1427.9	1605.4	1654.0	1482.4	1231.9	1044.5	1011.6	1015.9
60°	11714.0	7868.0	2257.8	1340.7	1509.5	1549.6	1472.3	1223.3	1034.4	978.7	983.0
62.5°	12296.4	7903.8	2161.9	1257.7	1386.4	1446.6	1450.9	1216.2	1007.3	911.4	911.4
65°	12678.4	7749.3	1994.5	1163.3	1253.4	1340.7	1409.4	1191.9	958.7	862.7	862.7
67.5°	12662.6	7308.6	1732.7	1041.6	1124.6	1223.3	1349.2	1150.4	900.0	802.7	807.0
70°	12073.2	6438.6	1400.8	900.0	983.0	1097.5	1272.0	1088.9	829.8	736.9	745.5
72.5°	10354.8	5039.3	1017.3	734.0	818.5	967.2	1171.9	1014.4	758.3	678.2	673.9
75°	7397.3	3189.3	689.6	563.8	636.7	819.9	1047.3	927.2	692.5	681.1	642.5
77.5°	3778.8	1523.8	456.4	412.0	443.5	646.8	880.0	828.4	702.5	562.3	500.8
80°	1229.1	562.3	287.6	280.4	294.8	430.7	681.1	679.7	532.3	382.0	337.6
82.5°	392.1	241.8	187.5	180.3	173.1	270.4	475.0	538.0	359.2	241.8	240.4
85°	156.0	144.5	110.2	101.6	73.0	127.3	249.0	357.7	267.5	174.6	178.9
87.5°	57.2	57.2	30.0	21.4	15.8	42.9	67.2	107.3	153.1	90.1	88.7
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)