

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: P967843

Luminaire Tested: **NVN-SB5A-827-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967843  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5A-827-U-SL2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

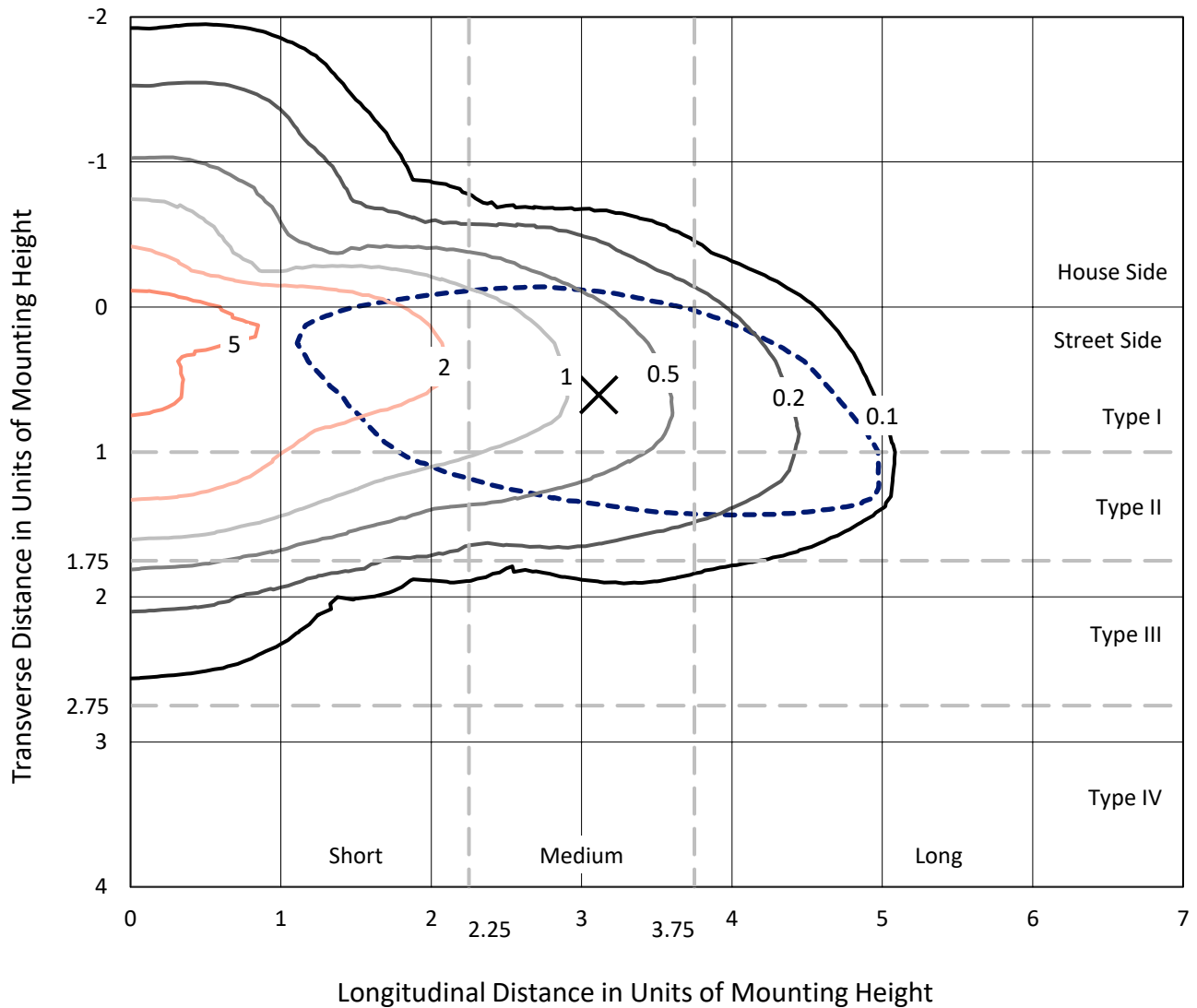
Lumens per Lamp: N/A  
Luminaire Lumens: 20074.6 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): 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

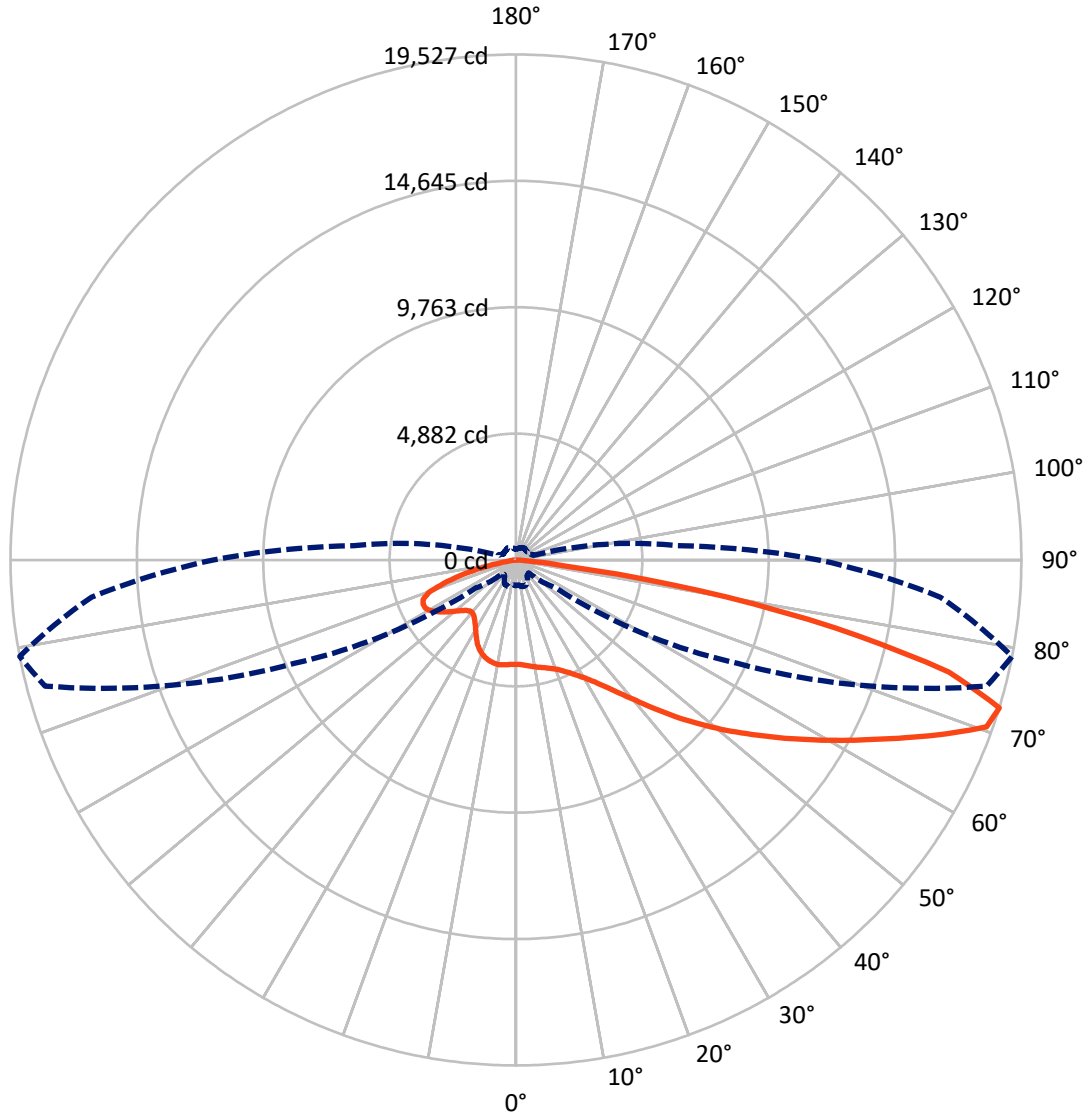
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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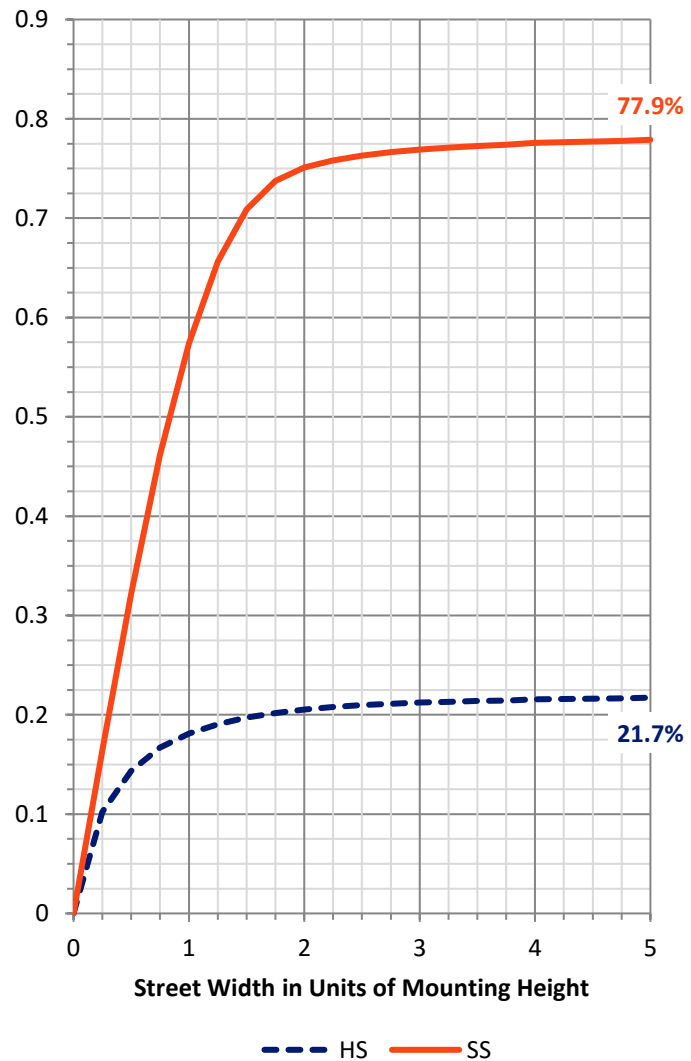
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4417.5	0.0	4417.5
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	15657.1	0.0	15657.1
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	20074.6	0.0	20074.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.8	1.8
10°-20°	956.4	4.8
20°-30°	1543.2	7.7
30°-40°	2316.1	11.5
40°-50°	3285.5	16.4
50°-60°	4149.1	20.7
60°-70°	4214.0	21.0
70°-80°	2872.0	14.3
80°-90°	372.6	1.9
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°	20074.6	100.0
0°-180°	20074.6	100.0



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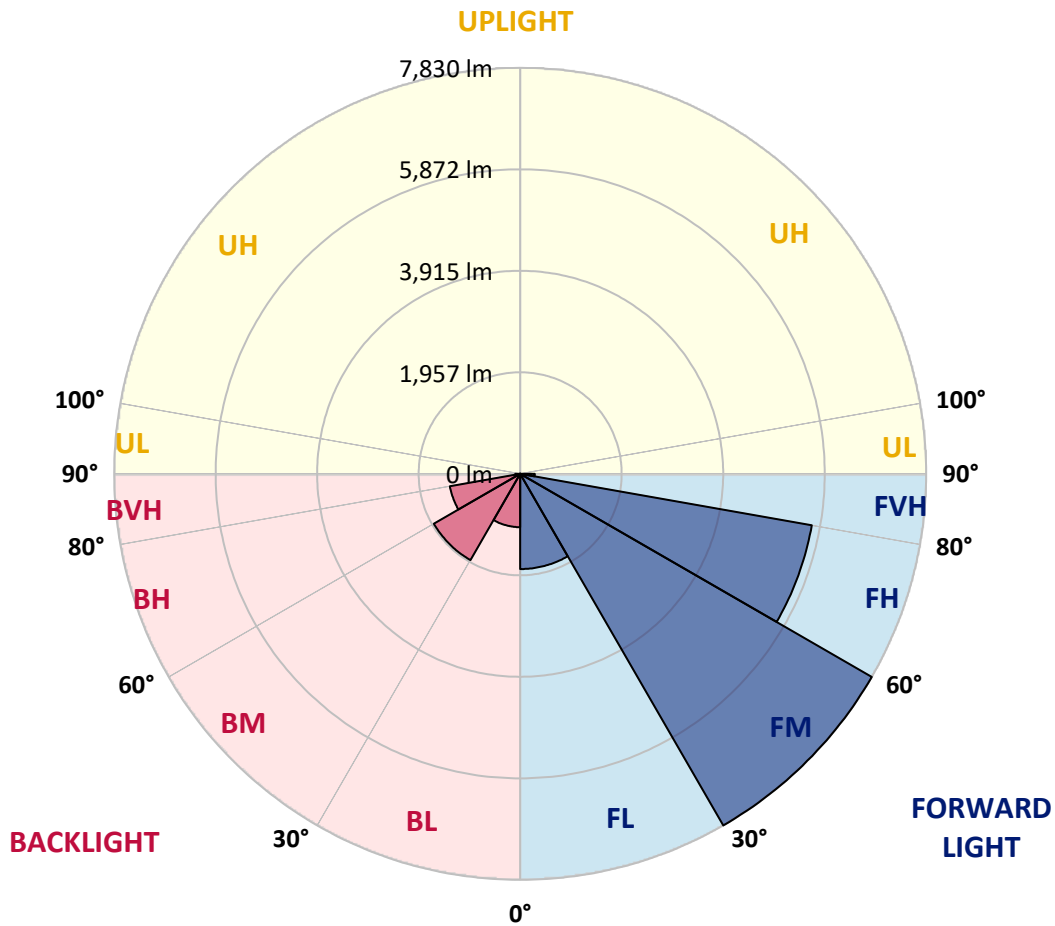
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1836.3	9.1			
FM (30°-60°)	7829.5	39.0			
FH (60°-80°)	5710.6	28.4			G3/7500
FVH (80°-90°)	280.7	1.4			G3/500
BL (0°-30°)	1029.0	5.1	B3/2500		
BM (30°-60°)	1921.2	9.6	B2/2500		
BH (60°-80°)	1375.5	6.9	B3/2500		G3/2500
BVH (80°-90°)	91.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8
2.5°	4031.9	4012.8	4024.5	4020.3	4025.6	4031.9	4034.0	4037.3	4047.8	4046.8	4045.7
5°	4023.4	4004.3	4020.3	4014.9	4028.8	4043.6	4056.3	4068.0	4085.0	4092.4	4081.9
7.5°	4005.4	3992.6	4008.6	4024.5	4050.0	4072.2	4090.4	4116.9	4141.3	4145.5	4153.0
10°	3900.2	3890.7	3927.8	3969.3	4039.3	4099.9	4139.2	4170.0	4196.5	4200.8	4211.4
12.5°	3790.9	3779.2	3820.6	3876.9	3990.5	4099.9	4182.7	4223.0	4246.4	4260.2	4276.1
15°	3772.8	3763.3	3786.7	3835.4	3930.0	4071.2	4212.4	4286.8	4306.9	4322.8	4329.2
17.5°	3859.8	3841.8	3851.4	3868.3	3923.6	4044.6	4235.8	4359.0	4389.8	4406.8	4406.8
20°	4061.7	4036.1	4021.3	3987.4	3977.7	4048.9	4233.7	4446.0	4486.4	4507.6	4513.0
22.5°	4330.3	4313.3	4281.4	4195.4	4101.9	4100.9	4274.0	4557.6	4632.9	4653.1	4640.4
25°	4655.2	4629.7	4589.4	4472.6	4293.1	4203.9	4342.0	4699.8	4826.2	4831.5	4794.3
27.5°	5029.0	4990.8	4935.6	4781.6	4539.5	4365.4	4446.0	4863.3	5048.1	5046.0	4969.5
30°	5423.0	5384.7	5326.3	5139.5	4834.7	4583.0	4590.5	5039.6	5311.4	5299.8	5169.2
32.5°	5710.7	5682.1	5670.4	5526.0	5174.5	4839.9	4756.1	5235.0	5636.4	5625.8	5443.2
35°	5931.6	5894.5	5908.2	5834.9	5545.0	5127.8	4959.0	5467.6	6031.4	6030.4	5803.1
37.5°	6150.3	6117.4	6129.1	6080.3	5888.0	5493.1	5206.4	5752.1	6520.9	6544.3	6238.5
40°	6350.0	6314.9	6361.7	6315.9	6154.6	5881.7	5487.7	6073.8	7088.0	7132.6	6765.2
42.5°	6470.0	6442.3	6519.8	6520.9	6386.1	6209.8	5796.8	6428.6	7744.2	7844.0	7412.9
45°	6511.4	6501.8	6618.6	6643.0	6591.1	6399.9	6075.0	6815.0	8451.4	8629.8	8150.9
47.5°	6466.8	6448.7	6610.1	6700.4	6741.8	6489.1	6305.4	7233.4	9173.4	9434.7	8955.8
50°	6241.6	6206.6	6446.6	6636.7	6784.3	6547.5	6538.0	7716.6	9994.3	10279.9	9765.0
52.5°	5837.1	5810.5	6083.5	6413.7	6690.8	6576.2	6799.1	8244.4	10773.7	11143.3	10594.3
55°	5320.0	5284.9	5585.4	6016.5	6458.3	6566.6	7060.4	8834.8	11693.3	12068.1	11451.2
57.5°	4500.2	4430.2	4810.2	5320.0	6079.2	6554.9	7332.2	9422.0	12627.7	13076.9	12365.5
60°	3304.5	3200.5	3666.6	4270.9	5338.0	6441.3	7668.8	10080.4	13749.0	14153.6	13363.6
62.5°	1924.1	1863.6	2168.3	2732.1	4023.4	5772.3	7857.9	10845.9	14851.3	15276.1	14344.8
65°	1494.0	1477.0	1503.6	1547.1	2239.5	4321.8	7274.8	11592.4	16252.9	16550.3	15367.3
67.5°	1366.6	1353.9	1365.6	1283.8	1136.2	2407.2	5755.4	11781.5	17754.4	17934.9	16262.5
70°	1214.7	1199.9	1238.1	1168.1	894.1	1094.8	3718.7	11095.4	18949.1	19287.7	16943.1
72.5°	989.6	972.6	1061.9	1030.0	752.9	702.9	1867.9	9465.5	18823.7	19526.7	16455.8
75°	760.3	750.7	856.9	883.4	613.8	553.2	896.3	7035.9	16565.1	17273.4	14182.3
77.5°	590.4	582.9	637.1	733.8	494.9	429.0	551.1	4463.1	12483.4	12607.6	9773.5
80°	442.8	421.6	471.5	568.1	385.5	313.2	373.8	2602.7	7890.8	7152.8	4253.9
82.5°	277.2	266.5	307.9	379.0	271.8	215.6	243.1	1437.8	3162.2	1862.5	820.8
85°	158.3	154.0	167.8	216.6	147.6	124.2	139.1	635.0	577.7	397.2	247.4
87.5°	63.8	61.6	76.5	96.7	54.1	45.6	48.9	152.9	127.4	117.9	81.8
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°	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8	4029.8
2.5°	4041.5	4041.5	4026.6	4003.2	3976.7	3959.7	3932.1	3924.6	3896.0	3887.5	3901.4
5°	4090.4	4081.9	4036.1	3970.3	3880.0	3797.2	3705.9	3648.6	3567.9	3539.2	3560.4
7.5°	4151.9	4128.5	4050.0	3905.6	3716.5	3530.7	3337.5	3190.9	3050.7	3000.8	3007.2
10°	4208.1	4175.2	4041.5	3788.7	3461.7	3140.0	2832.0	2616.4	2452.9	2386.0	2400.9
12.5°	4264.5	4203.9	3985.2	3594.5	3099.6	2663.2	2335.1	2167.3	2066.4	1985.7	2012.3
15°	4317.6	4232.6	3898.1	3334.2	2702.4	2259.6	2017.5	1883.7	1803.1	1750.0	1759.5
17.5°	4379.1	4257.0	3767.5	3004.1	2324.4	1980.4	1782.9	1702.2	1686.2	1679.9	1684.1
20°	4465.1	4279.4	3595.5	2634.5	2046.2	1757.4	1655.5	1648.0	1647.0	1643.8	1654.4
22.5°	4557.6	4305.9	3368.3	2299.0	1809.4	1618.3	1600.2	1585.4	1575.8	1574.7	1586.4
25°	4666.9	4314.3	3083.7	2024.0	1607.7	1552.5	1531.2	1508.9	1502.5	1502.5	1508.9
27.5°	4773.1	4285.7	2752.3	1785.0	1494.0	1491.9	1464.3	1456.8	1455.8	1459.0	1467.5
30°	4879.3	4231.5	2423.2	1564.1	1428.2	1428.2	1418.7	1423.9	1428.2	1438.8	1446.3
32.5°	5022.6	4174.2	2148.2	1400.6	1370.8	1360.3	1369.8	1380.5	1384.7	1398.5	1410.2
35°	5232.9	4133.8	1929.5	1311.4	1311.4	1297.6	1302.9	1300.8	1291.2	1284.8	1299.7
37.5°	5511.1	4131.8	1748.9	1270.0	1261.5	1259.4	1260.4	1246.6	1209.5	1164.9	1165.9
40°	5845.6	4189.1	1609.8	1241.3	1234.9	1247.7	1241.3	1204.2	1102.2	1024.7	1022.5
42.5°	6294.7	4352.6	1520.6	1206.3	1225.4	1241.3	1215.9	1087.3	1018.3	966.3	964.2
45°	6823.5	4618.0	1475.0	1169.1	1207.3	1226.4	1103.3	1047.0	991.8	929.2	924.9
47.5°	7422.4	4952.6	1464.3	1134.1	1167.0	1178.6	1055.5	1030.0	967.4	899.4	894.1
50°	8074.4	5348.7	1493.0	1092.6	1108.6	1068.3	1039.6	1016.2	951.4	884.6	877.1
52.5°	8748.7	5785.1	1550.3	1036.4	1050.2	1005.6	1033.2	1013.0	941.9	851.6	845.2
55°	9411.3	6224.7	1605.6	970.6	990.8	949.4	1015.2	1000.3	898.3	796.4	791.1
57.5°	10084.6	6662.2	1659.7	912.1	933.4	895.1	986.5	966.3	849.5	745.5	743.3
60°	10784.3	7087.0	1685.2	855.9	870.7	845.2	942.9	907.9	794.3	693.4	690.2
62.5°	11439.5	7440.5	1643.8	799.6	809.1	798.5	885.6	838.9	739.0	635.0	634.0
65°	12096.8	7650.8	1516.4	744.4	746.5	741.2	804.9	764.5	674.2	584.0	577.7
67.5°	12692.5	7768.6	1313.5	684.9	679.6	677.4	729.5	683.9	611.6	533.1	526.6
70°	12818.9	7469.2	1003.5	614.8	614.8	609.5	646.7	599.9	542.6	478.9	476.8
72.5°	11708.2	6283.0	712.5	535.2	543.7	533.1	563.9	524.6	472.5	430.1	417.3
75°	9441.1	4607.5	518.2	453.5	468.3	450.3	478.9	451.3	406.7	405.6	365.3
77.5°	6486.9	2849.0	375.9	373.8	384.4	361.0	393.9	379.0	338.8	320.7	300.5
80°	2768.3	1136.2	274.0	288.8	288.8	267.6	305.9	310.1	275.0	266.5	266.5
82.5°	551.1	322.8	192.2	198.5	186.9	180.5	216.6	240.0	331.3	368.5	369.5
85°	165.6	118.9	115.7	108.3	95.5	96.7	127.4	241.1	297.4	169.9	146.6
87.5°	45.6	29.7	30.7	24.4	20.2	26.5	43.6	182.7	99.8	42.4	36.1
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)