

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: P962043

Luminaire Tested: **NVN-SB2B-827-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962043  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB2B-827-U-AFL  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

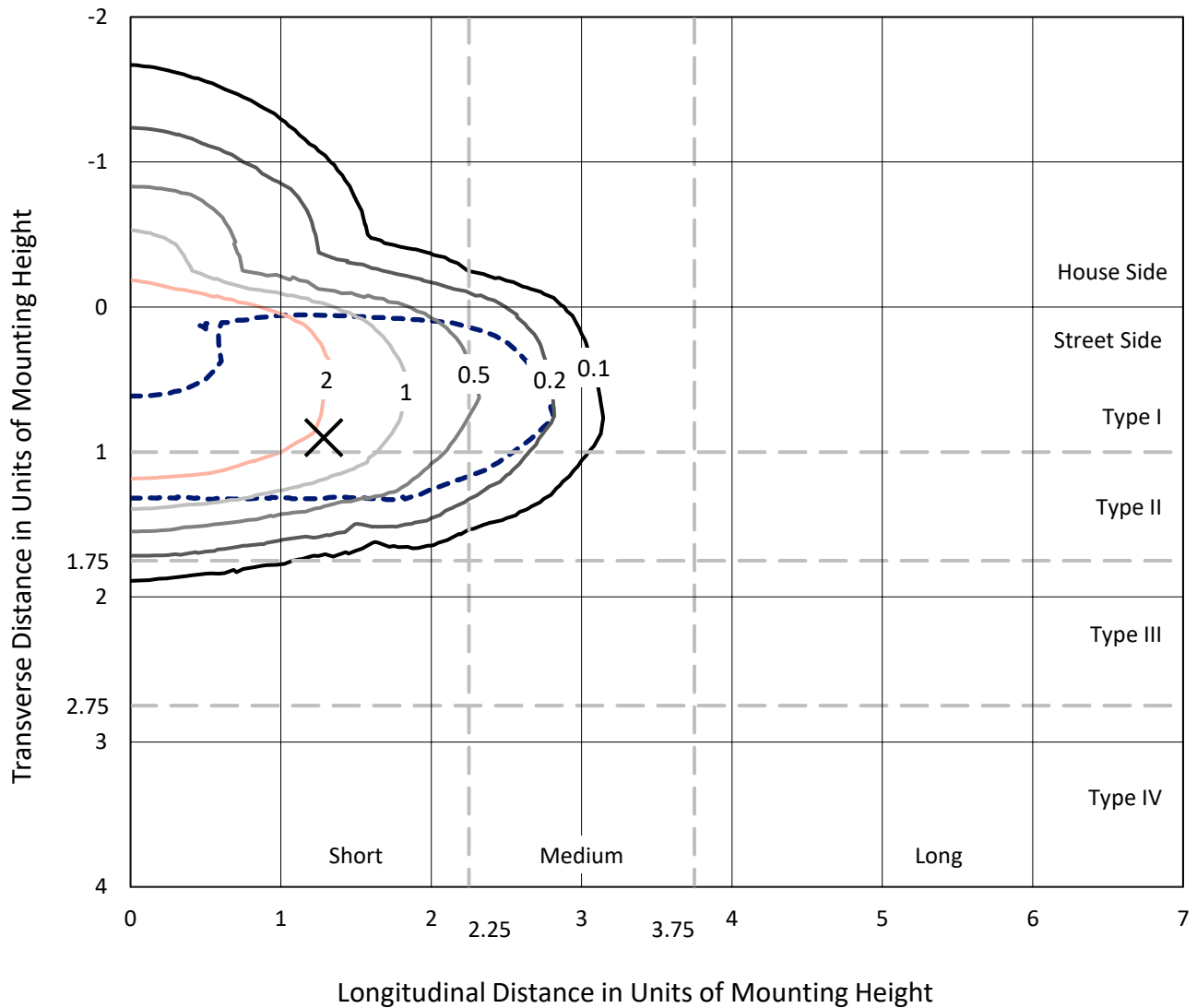
Lumens per Lamp: N/A  
Luminaire Lumens: 10208 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

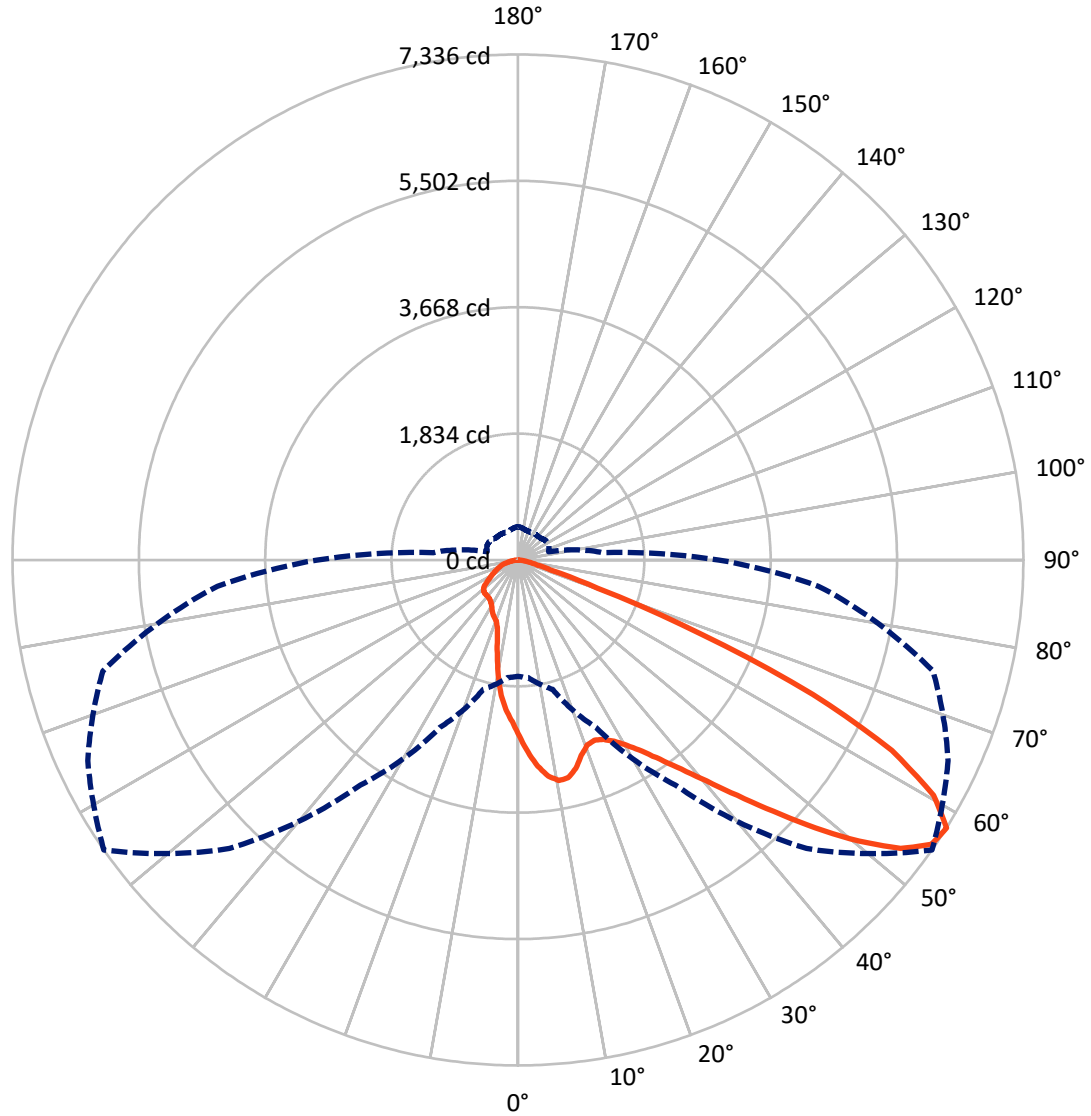
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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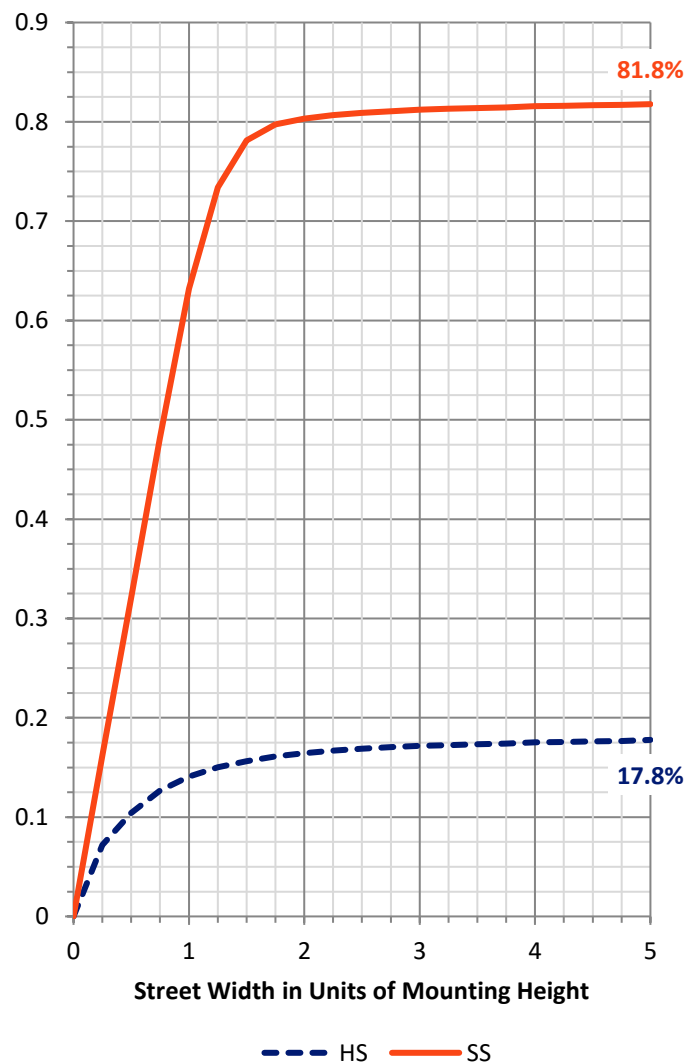
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1847.1	0.0	1847.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	8360.9	0.0	8360.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	10208.0	0.0	10208.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.3	2.3
10°-20°	599.1	5.9
20°-30°	956.0	9.4
30°-40°	1513.5	14.8
40°-50°	2316.6	22.7
50°-60°	2481.3	24.3
60°-70°	1561.0	15.3
70°-80°	461.6	4.5
80°-90°	81.6	0.8
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°	10208.0	100.0
0°-180°	10208.0	100.0

**Coefficient of Utilization**



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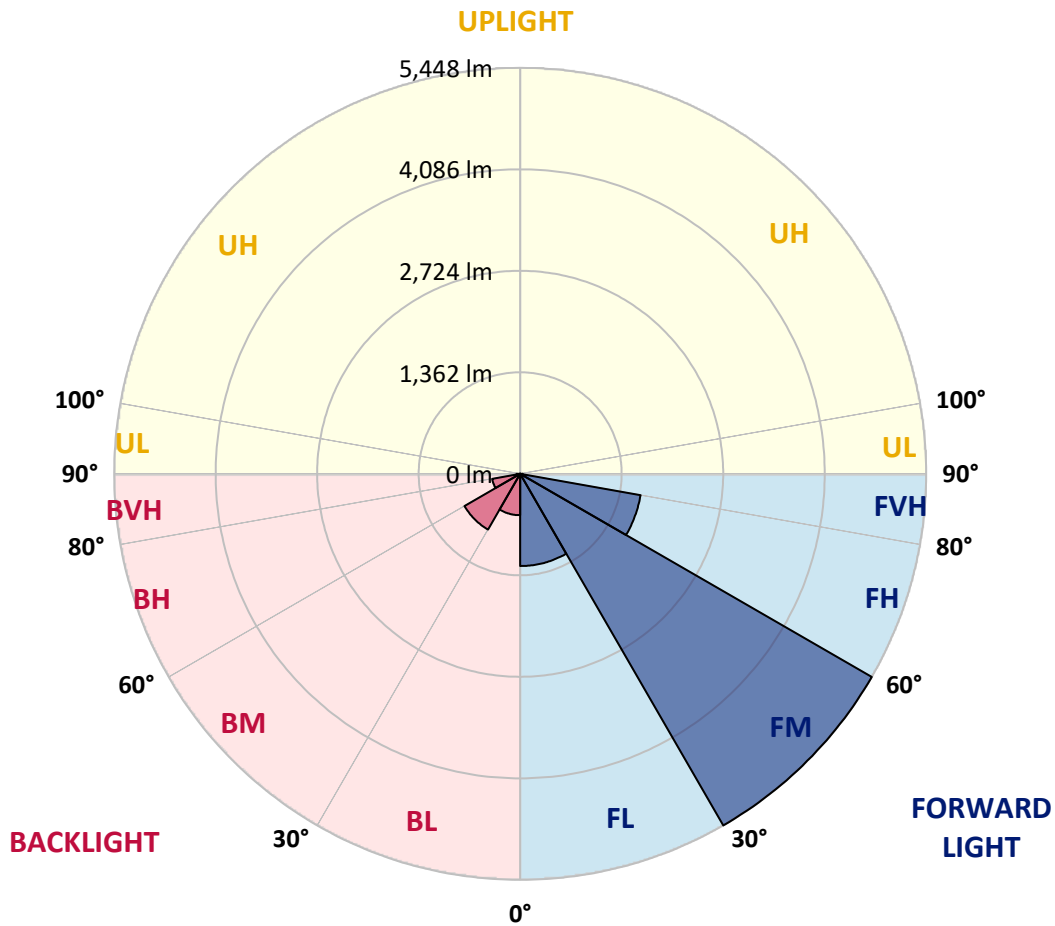
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1237.2	12.1			
FM (30°-60°)	5448.1	53.4			
FH (60°-80°)	1641.1	16.1			G1/1800
FVH (80°-90°)	34.5	0.3			G1/100
BL (0°-30°)	555.2	5.4	B2/1000		
BM (30°-60°)	863.3	8.5	B1/1000		
BH (60°-80°)	381.5	3.7	B1/500		G1/500
BVH (80°-90°)	47.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8
2.5°	2934.6	2932.4	2944.1	2904.4	2877.6	2841.2	2793.1	2731.9	2665.9	2596.3	2566.2
5°	3198.9	3180.5	3192.6	3163.0	3133.5	3078.6	3007.4	2907.6	2785.7	2647.0	2573.1
7.5°	3157.3	3144.6	3175.8	3202.1	3224.2	3217.4	3165.2	3060.6	2903.4	2701.9	2594.7
10°	2821.1	2806.9	2850.6	2942.0	3076.0	3192.6	3255.9	3191.0	3023.7	2762.0	2615.8
12.5°	2524.6	2517.7	2546.7	2620.6	2769.4	2993.1	3244.3	3305.0	3148.8	2833.2	2644.3
15°	2397.9	2389.5	2407.9	2445.3	2540.4	2748.8	3138.8	3383.1	3271.8	2915.6	2689.7
17.5°	2369.9	2360.5	2368.4	2387.8	2449.0	2607.9	2979.5	3421.7	3400.0	3007.4	2727.7
20°	2421.7	2413.8	2414.8	2413.8	2456.5	2582.6	2868.6	3406.9	3511.9	3091.8	2764.6
22.5°	2546.7	2533.5	2534.0	2506.0	2529.3	2626.9	2839.6	3367.3	3611.6	3165.7	2792.6
25°	2750.4	2726.6	2731.4	2660.2	2653.8	2726.1	2885.0	3336.7	3710.8	3224.9	2797.9
27.5°	3029.0	3002.1	2987.9	2881.8	2831.2	2867.0	2977.3	3347.2	3804.8	3276.0	2784.7
30°	3377.3	3344.6	3315.6	3165.2	3073.4	3060.1	3120.8	3416.9	3915.6	3329.8	2762.0
32.5°	3804.2	3766.3	3713.5	3514.0	3384.7	3315.6	3306.6	3540.9	4045.4	3398.4	2750.4
35°	4312.4	4262.8	4187.8	3929.8	3766.3	3624.8	3551.4	3719.8	4223.2	3501.8	2763.6
37.5°	4835.8	4780.0	4711.3	4404.2	4203.2	3994.7	3850.1	3962.5	4460.2	3642.2	2798.5
40°	5318.7	5256.0	5192.1	4918.8	4702.9	4451.7	4215.8	4269.6	4749.8	3810.0	2857.5
42.5°	5603.7	5557.2	5533.0	5385.2	5218.5	4963.6	4670.7	4633.8	5075.5	4003.1	2925.0
45°	5591.1	5572.0	5646.9	5708.2	5668.7	5527.2	5203.7	5036.4	5402.2	4170.4	2987.4
47.5°	5292.4	5305.0	5472.3	5816.4	5967.9	6041.7	5810.5	5431.7	5686.0	4295.6	3015.3
50°	4479.7	4490.2	4877.6	5619.6	6044.8	6461.2	6412.7	5817.4	5906.0	4372.0	3009.0
52.5°	3836.4	3843.2	4009.5	5035.9	5790.5	6672.3	6955.1	6181.1	6067.1	4393.2	2973.6
55°	2889.7	2913.5	3099.7	3951.0	5128.8	6505.1	7285.5	6555.7	6168.9	4395.3	2936.7
57.5°	1688.2	1714.0	1944.0	2681.8	3986.3	5921.9	7335.6	6888.1	6238.0	4378.4	2914.5
60°	826.9	838.0	938.3	1409.5	2458.1	4798.4	6932.5	7049.1	6276.5	4369.4	2913.5
62.5°	557.3	555.7	559.9	695.6	1211.0	3082.9	6092.4	6767.3	6256.0	4335.1	2902.9
65°	479.2	473.3	457.6	488.1	627.4	1410.0	4707.1	5926.1	6099.3	4249.0	2830.6
67.5°	414.2	414.8	415.3	405.8	448.0	650.7	2876.6	4668.1	5536.6	3841.7	2551.9
70°	343.0	347.8	349.8	349.8	365.2	426.9	1227.9	3199.4	4367.3	3012.2	2055.4
72.5°	312.4	302.4	303.4	298.2	298.2	325.0	494.5	1813.7	2751.4	1694.4	1254.4
75°	254.9	261.2	262.3	258.6	246.4	248.0	293.4	761.0	1177.3	702.9	620.0
77.5°	220.1	220.1	222.1	219.6	210.0	185.7	195.8	295.0	400.6	288.1	309.8
80°	176.8	176.3	185.2	190.5	175.7	137.2	125.0	163.1	177.8	126.7	160.9
82.5°	86.0	91.3	127.2	145.1	133.6	99.2	76.6	101.3	95.0	56.0	72.3
85°	50.1	47.5	57.0	80.8	76.6	54.8	36.9	52.8	49.6	28.5	29.0
87.5°	15.8	14.8	11.6	27.5	22.1	15.3	10.0	15.3	13.7	6.4	6.4
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8	2557.8
2.5°	2528.8	2466.5	2404.8	2348.3	2313.9	2291.8	2269.7	2244.9	2235.3	2221.1
5°	2503.5	2383.1	2276.0	2183.7	2099.7	2033.8	1967.3	1913.5	1889.2	1905.6
7.5°	2488.7	2314.6	2149.3	1980.0	1816.9	1686.5	1573.1	1493.4	1457.6	1466.5
10°	2475.5	2237.0	1985.2	1717.7	1483.4	1321.9	1205.8	1145.1	1122.5	1127.2
12.5°	2463.3	2149.8	1787.3	1435.3	1186.2	1079.7	1046.4	1046.9	1051.2	1054.3
15°	2461.2	2044.9	1566.2	1188.4	1025.8	1019.0	1054.9	1077.6	1089.7	1093.4
17.5°	2458.1	1919.3	1340.9	1020.1	986.8	1033.2	1066.5	1081.3	1090.8	1091.3
20°	2445.3	1759.9	1132.9	939.8	978.4	1018.4	1039.0	1050.6	1058.6	1061.2
22.5°	2406.3	1582.6	971.0	903.9	944.6	976.8	1001.0	1014.2	1019.0	1022.1
25°	2336.2	1384.2	859.2	869.6	897.6	938.3	957.8	960.4	958.9	963.6
27.5°	2244.3	1171.5	789.5	823.2	859.2	893.9	904.5	902.9	899.7	905.0
30°	2133.5	980.5	745.1	771.0	820.1	851.7	861.2	857.5	851.2	857.0
32.5°	2016.4	824.3	708.7	734.5	787.8	819.0	828.5	824.8	820.1	824.8
35°	1907.1	715.0	675.0	710.3	762.5	793.1	805.2	805.9	805.9	811.6
37.5°	1806.9	651.2	647.0	694.9	745.1	772.5	790.0	791.0	768.3	769.9
40°	1714.0	624.2	634.3	685.0	728.3	754.6	755.6	696.6	654.9	653.8
42.5°	1637.9	619.0	638.0	683.9	716.1	717.2	642.8	596.9	585.3	585.8
45°	1566.7	617.5	646.5	683.9	698.1	619.5	569.4	557.3	558.3	562.5
47.5°	1487.1	611.1	648.0	674.4	646.5	550.9	536.2	530.8	528.8	529.8
50°	1400.0	588.3	628.0	655.4	557.8	521.4	502.9	501.3	504.0	505.5
52.5°	1308.2	551.4	593.7	621.2	517.1	495.5	475.0	478.7	490.3	493.9
55°	1248.0	508.2	548.3	552.5	488.6	471.2	453.9	462.3	483.9	490.8
57.5°	1232.2	462.3	496.6	491.8	452.2	450.2	439.6	447.0	474.4	484.4
60°	1227.4	421.1	445.9	442.2	416.9	426.9	424.2	427.9	437.5	440.6
62.5°	1190.5	388.4	400.6	395.2	385.2	402.6	409.0	401.1	408.5	412.2
65°	1096.5	362.0	356.2	352.5	356.7	372.6	385.2	369.4	376.3	386.8
67.5°	941.5	326.2	310.3	314.5	327.7	336.1	352.5	334.6	340.4	358.3
70°	761.5	280.7	266.5	278.6	291.3	308.7	311.4	299.2	312.9	333.0
72.5°	538.7	234.8	224.8	249.6	253.8	276.5	270.7	264.9	283.9	290.8
75°	373.6	189.4	183.7	202.6	217.9	237.5	233.3	240.1	280.2	283.4
77.5°	236.4	147.2	143.5	155.7	176.8	198.4	205.3	283.4	478.7	497.6
80°	137.2	109.8	105.6	115.0	133.6	153.5	197.9	347.8	315.6	311.9
82.5°	76.6	75.4	70.2	72.8	89.2	110.8	279.7	244.9	199.0	205.3
85°	35.9	44.3	38.0	36.4	50.1	129.8	186.9	139.8	92.9	90.8
87.5°	9.5	8.4	8.4	9.5	21.1	111.8	74.4	59.7	35.4	34.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)