

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: P968164

Luminaire Tested: **NVN-SB5B-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5B-722-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20392.4 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

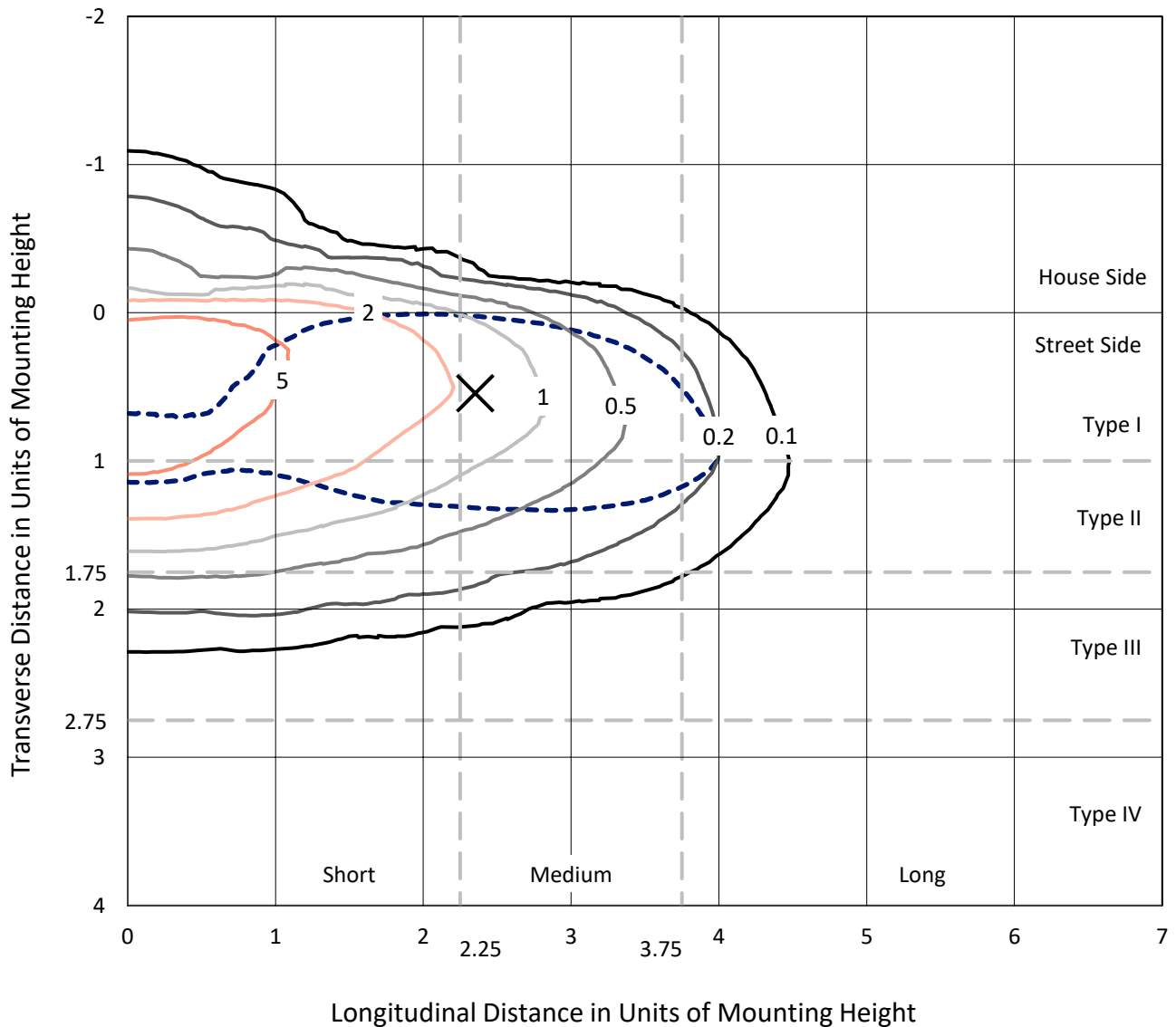
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

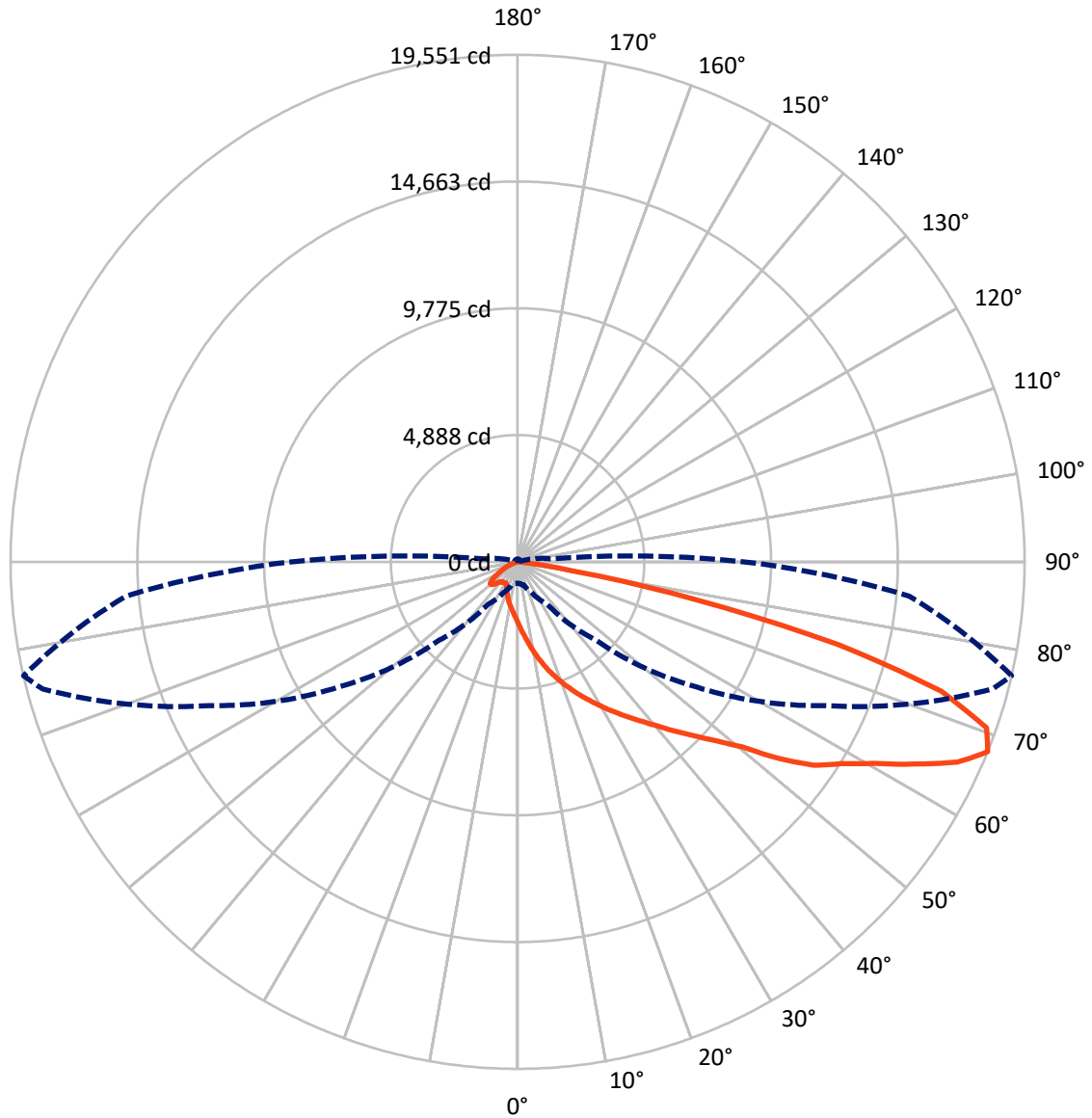
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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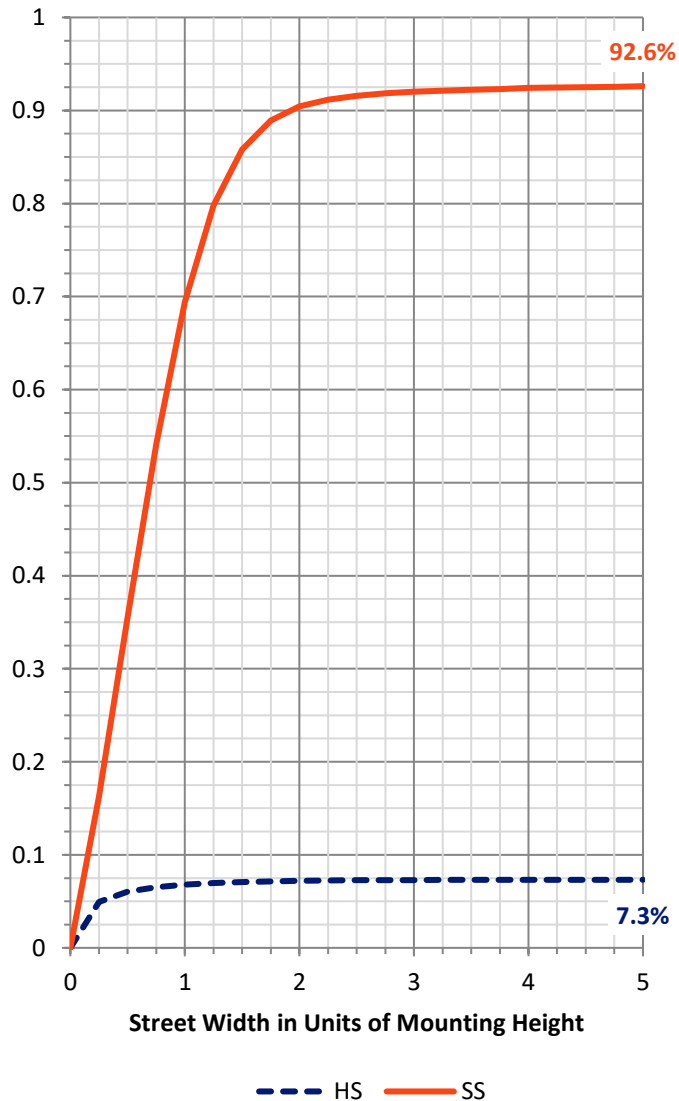
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1500.3	0.0	1500.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	18892.1	0.0	18892.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	20392.4	0.0	20392.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.0	1.2
10°-20°	840.5	4.1
20°-30°	1621.9	8.0
30°-40°	2815.8	13.8
40°-50°	4088.3	20.0
50°-60°	4694.9	23.0
60°-70°	4076.1	20.0
70°-80°	1919.9	9.4
80°-90°	94.9	0.5
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°	20392.4	100.0
0°-180°	20392.4	100.0

Coefficient of Utilization

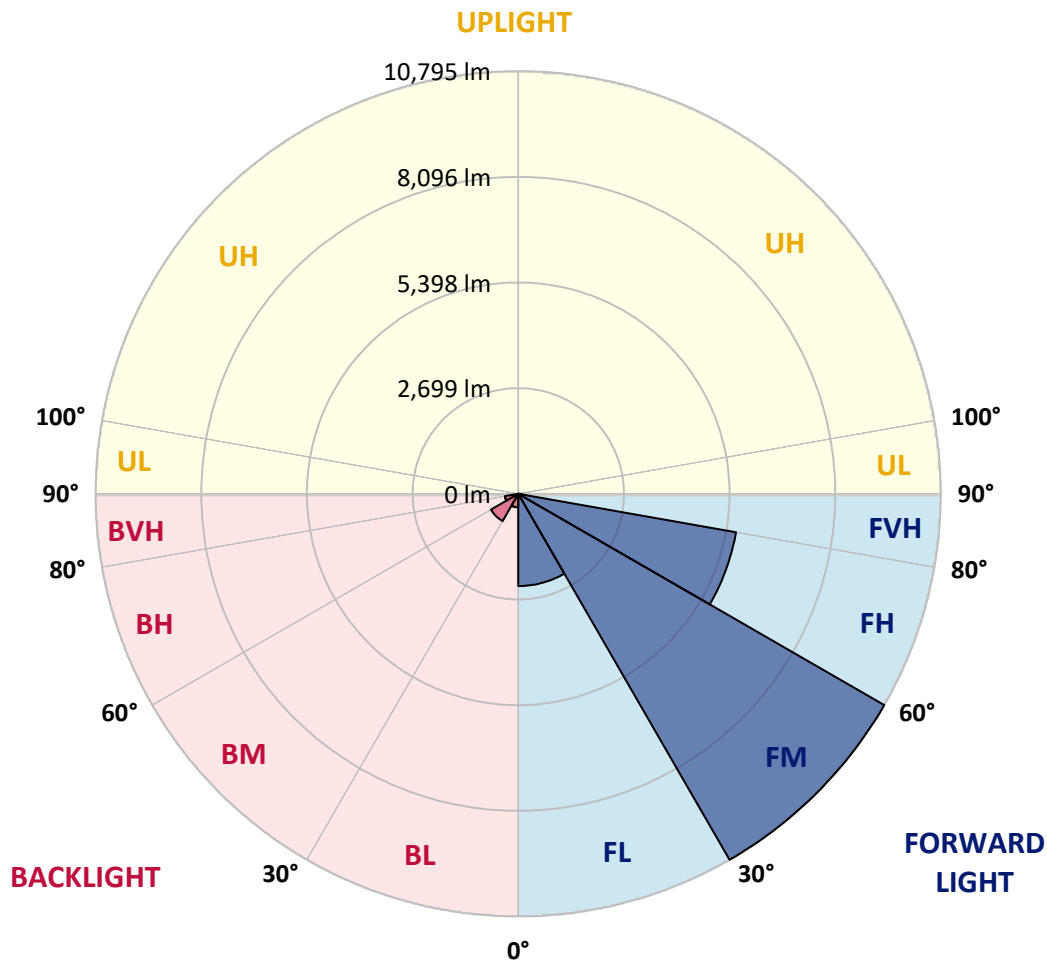


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2355.1	11.5			
FM (30°-60°)	10795.2	52.9			
FH (60°-80°)	5648.6	27.7			G3/7500
FVH (80°-90°)	93.2	0.5			G1/100
BL (0°-30°)	347.3	1.7	B1/500		
BM (30°-60°)	803.9	3.9	B1/1000		
BH (60°-80°)	347.3	1.7	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6
2.5°	3255.7	3275.9	3246.8	3191.1	3107.5	3053.1	2920.1	2794.8	2655.5	2611.1	2471.9
5°	3968.6	3986.3	3953.4	3892.6	3781.2	3674.8	3500.1	3238.0	2965.7	2878.3	2631.4
7.5°	4496.7	4506.8	4494.1	4438.5	4332.1	4211.7	4016.8	3706.5	3302.6	3206.3	2827.7
10°	4876.5	4909.4	4905.6	4884.1	4813.3	4715.7	4508.1	4154.7	3679.9	3555.8	3049.3
12.5°	5128.6	5165.3	5186.8	5235.0	5231.1	5169.1	4986.7	4613.2	4056.0	3910.4	3298.8
15°	5202.0	5241.2	5323.5	5435.0	5533.8	5565.4	5437.5	5062.7	4470.1	4283.9	3554.5
17.5°	5160.3	5221.0	5319.7	5495.7	5712.3	5855.4	5841.5	5497.1	4846.2	4633.4	3805.3
20°	5252.6	5310.9	5388.1	5536.3	5788.3	6047.9	6151.7	5912.4	5219.7	4996.9	4068.6
22.5°	5764.3	5754.1	5761.7	5785.8	5936.5	6193.6	6407.6	6289.8	5589.5	5361.6	4347.2
25°	6574.7	6529.1	6451.9	6321.4	6283.5	6407.6	6630.4	6624.1	5979.5	5735.1	4632.2
27.5°	7504.1	7496.5	7315.5	7001.5	6824.1	6776.1	6882.4	6949.5	6365.8	6104.9	4918.4
30°	8394.3	8414.6	8170.3	7820.7	7495.3	7306.6	7210.4	7258.5	6758.3	6503.7	5213.4
32.5°	9169.3	9190.9	8925.0	8515.9	8113.3	7885.3	7682.7	7563.7	7186.3	6909.0	5537.6
35°	9824.0	9845.5	9540.4	9088.4	8659.0	8452.7	8223.5	7898.0	7616.9	7358.6	5898.5
37.5°	10409.1	10402.7	9993.8	9537.8	9116.1	8952.9	8832.5	8309.6	8060.1	7810.6	6298.6
40°	10754.8	10781.4	10431.8	9929.2	9520.1	9401.1	9393.5	8819.8	8571.7	8329.8	6736.8
42.5°	10856.1	10902.9	10649.6	10236.9	9865.8	9736.7	9935.5	9372.0	9166.8	8931.3	7231.9
45°	10673.7	10719.3	10604.1	10318.0	10101.4	10017.8	10401.5	9944.3	9802.5	9569.5	7790.3
47.5°	10141.9	10198.9	10226.7	10165.9	10163.4	10248.3	10819.4	10547.1	10557.2	10319.2	8437.4
50°	9112.4	9208.6	9464.4	9679.7	10012.7	10430.6	11225.9	11200.5	11408.2	11203.0	9280.8
52.5°	7240.8	7377.5	8258.8	8847.7	9596.2	10396.4	11672.9	12249.1	12901.2	12601.0	10469.9
55°	5818.7	5818.7	6535.4	7637.2	8783.1	10171.0	11867.9	12930.3	13918.1	13847.1	11306.9
57.5°	4743.6	4800.6	5257.7	6231.5	7606.7	9634.1	11988.2	13358.3	14737.3	14685.4	12124.9
60°	2927.7	3050.5	3914.2	4875.3	6268.3	8678.1	11912.2	13791.4	15731.4	15773.2	13110.2
62.5°	1648.7	1694.3	2079.3	3507.7	4874.1	7392.7	11331.0	14033.3	17002.8	17180.0	14125.7
65°	1138.4	1161.2	1309.3	2183.1	3378.5	5885.9	10195.1	13882.6	18276.7	18635.0	14986.8
67.5°	826.9	838.3	930.7	1333.4	2004.6	4267.5	8414.6	13122.8	18951.6	19550.5	15151.4
70°	635.7	643.3	710.4	876.3	1184.0	2633.9	6111.3	11612.1	18462.8	19178.3	14308.1
72.5°	516.7	524.3	576.2	648.3	785.2	1557.6	3703.9	9430.2	16305.0	17077.5	12180.7
75°	435.6	445.8	492.6	539.5	615.4	1000.4	1737.4	6567.1	12261.7	12768.2	8470.4
77.5°	241.9	222.8	400.2	447.0	519.2	633.1	812.9	3864.8	6867.2	7007.7	3758.4
80°	150.7	155.8	317.9	359.7	398.9	319.1	372.3	1487.9	2380.7	2261.7	728.2
82.5°	8.8	20.3	244.4	259.6	273.6	136.7	140.5	505.2	573.6	526.7	129.1
85°	0.0	0.0	111.4	89.9	95.0	39.3	40.5	117.8	77.3	83.5	25.3
87.5°	0.0	0.0	0.0	2.6	0.0	3.8	7.6	10.1	3.8	5.0	8.8
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°	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6
2.5°	2383.2	2294.6	2114.8	1938.7	1795.6	1662.7	1567.7	1477.7	1432.2	1429.7	1427.1
5°	2455.4	2269.2	1909.6	1591.7	1336.0	1130.8	997.8	902.9	854.7	838.3	835.8
7.5°	2556.7	2276.8	1729.8	1287.8	986.5	810.5	734.4	704.1	693.9	682.5	680.0
10°	2684.6	2294.6	1569.0	1037.1	777.6	688.9	658.5	645.9	638.3	630.6	628.1
12.5°	2827.7	2311.1	1409.4	861.1	683.8	638.3	616.7	601.5	591.3	582.5	579.9
15°	2967.0	2321.1	1243.5	738.3	635.7	599.0	576.2	559.8	545.8	535.7	534.3
17.5°	3105.0	2335.1	1087.7	664.8	596.4	559.8	536.9	516.7	505.2	493.8	492.6
20°	3258.3	2332.6	940.8	612.8	557.2	520.5	496.4	477.4	466.0	453.4	452.0
22.5°	3400.0	2319.9	811.7	568.6	516.7	481.2	454.6	435.6	424.2	414.1	412.8
25°	3563.4	2309.7	704.1	528.1	478.7	443.2	414.1	396.4	383.7	374.8	373.6
27.5°	3720.4	2294.6	625.6	491.3	442.0	407.7	379.9	359.7	348.2	341.9	341.9
30°	3874.9	2290.8	596.4	455.9	409.0	374.8	347.0	328.0	319.1	316.6	315.3
32.5°	4061.0	2300.9	609.1	443.2	378.6	344.4	317.9	303.9	295.1	295.1	295.1
35°	4259.9	2298.4	628.1	454.6	358.3	314.1	293.8	285.0	276.0	276.0	276.0
37.5°	4509.4	2302.1	643.3	473.6	350.8	288.7	277.4	265.9	260.9	260.9	260.9
40°	4881.7	2427.5	635.7	490.1	348.2	271.0	248.2	244.4	240.6	240.6	240.6
42.5°	5337.5	2699.7	645.9	491.3	347.0	258.3	228.0	235.5	226.6	225.4	224.2
45°	5836.5	2997.4	710.4	464.7	345.7	251.9	217.8	226.6	212.8	212.8	212.8
47.5°	6331.5	3292.4	776.2	426.7	341.9	250.7	208.9	203.9	200.1	201.3	201.3
50°	7014.1	3533.0	801.6	374.8	333.0	248.2	192.5	193.7	191.2	193.7	193.7
52.5°	7757.4	3583.7	771.2	316.6	307.7	240.6	181.1	186.1	184.9	187.4	187.4
55°	8220.9	3529.2	636.9	263.4	268.4	210.2	169.6	179.8	179.8	179.8	179.8
57.5°	8699.6	3297.4	452.0	214.0	222.8	172.2	159.6	173.5	172.2	171.0	171.0
60°	9044.0	2922.7	297.6	176.0	177.3	141.9	148.1	163.4	162.1	155.8	155.8
62.5°	9301.1	2508.6	191.2	149.4	135.5	127.9	135.5	148.1	143.1	129.1	126.6
65°	9271.9	1934.9	146.9	127.9	111.4	111.4	117.8	129.1	114.0	91.2	88.7
67.5°	8731.3	1309.3	121.6	107.6	93.7	92.5	97.5	107.6	97.5	77.3	74.7
70°	7765.0	856.0	97.5	83.5	74.7	68.4	78.5	92.5	82.3	62.0	59.6
72.5°	6302.4	521.7	73.5	60.8	54.4	44.3	62.0	76.0	65.8	45.6	43.0
75°	4077.6	265.9	50.6	39.3	29.1	26.5	45.6	57.0	45.6	27.9	24.1
77.5°	1560.0	111.4	27.9	17.7	15.2	12.7	25.3	34.2	19.0	6.4	5.0
80°	300.1	46.8	13.9	8.8	7.6	5.0	3.8	2.6	0.0	0.0	0.0
82.5°	52.0	15.2	5.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)