

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: P884277

Luminaire Tested: **NVN-SB5A-735-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5A-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22554 lumens
Efficiency: N/A
Efficacy: 159.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

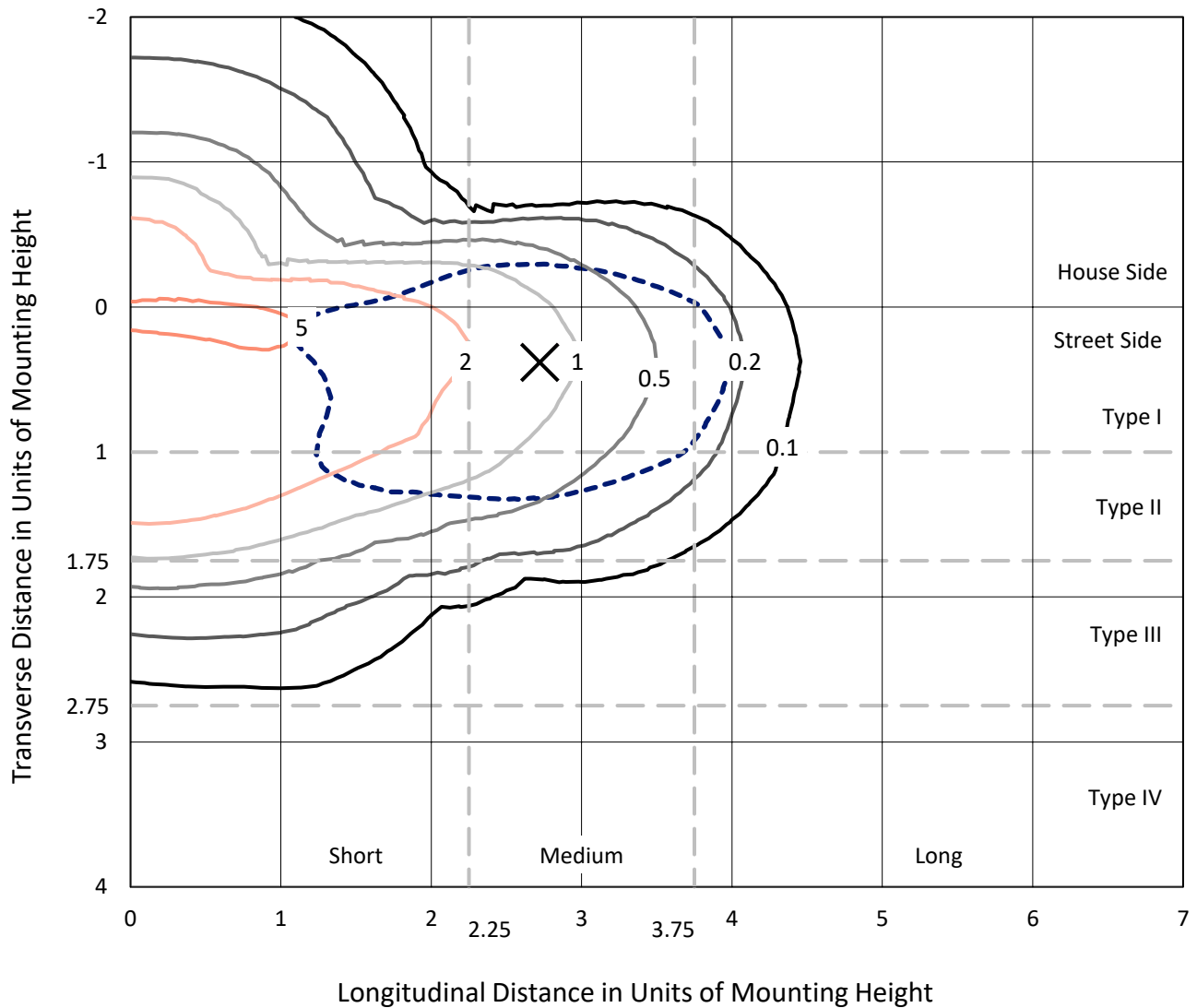
Input Watts (W): 141.7
Input Voltage (V): 120.0
Input Current (Ain): 1.201
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 10.503
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

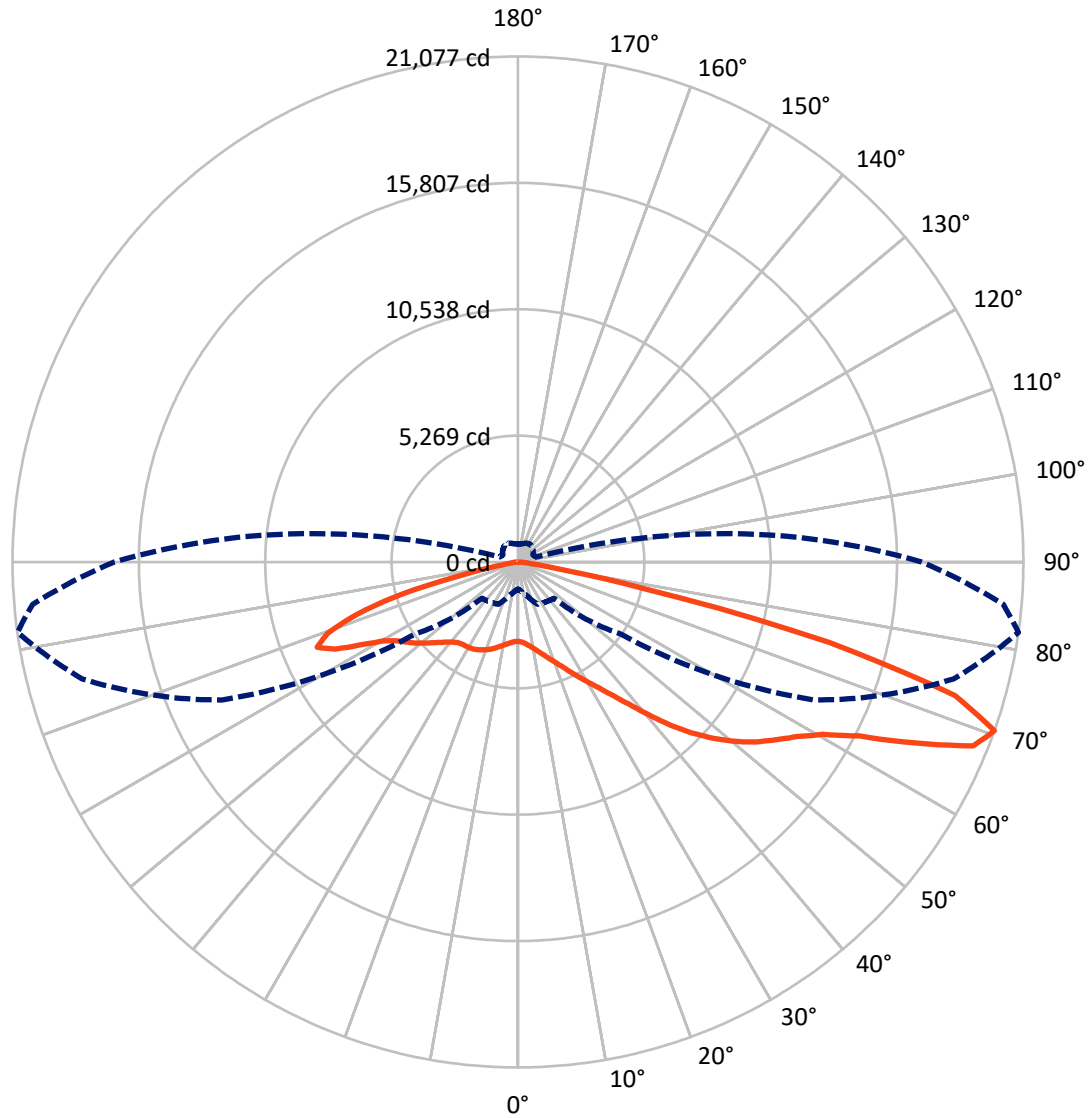
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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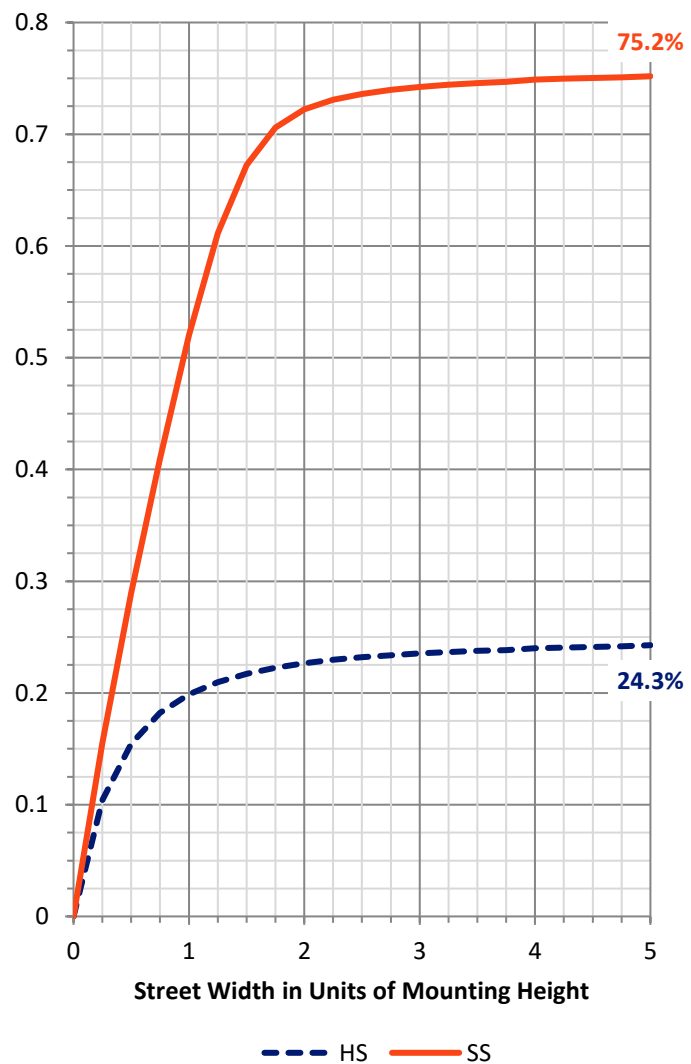
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5560.1	0.0	5560.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	16993.9	0.0	16993.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	22554.0	0.0	22554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.2	1.4
10°-20°	897.0	4.0
20°-30°	1500.6	6.7
30°-40°	2344.3	10.4
40°-50°	3733.6	16.6
50°-60°	5195.7	23.0
60°-70°	5435.0	24.1
70°-80°	2840.6	12.6
80°-90°	295.0	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°	22554.0	100.0
0°-180°	22554.0	100.0

Coefficient of Utilization



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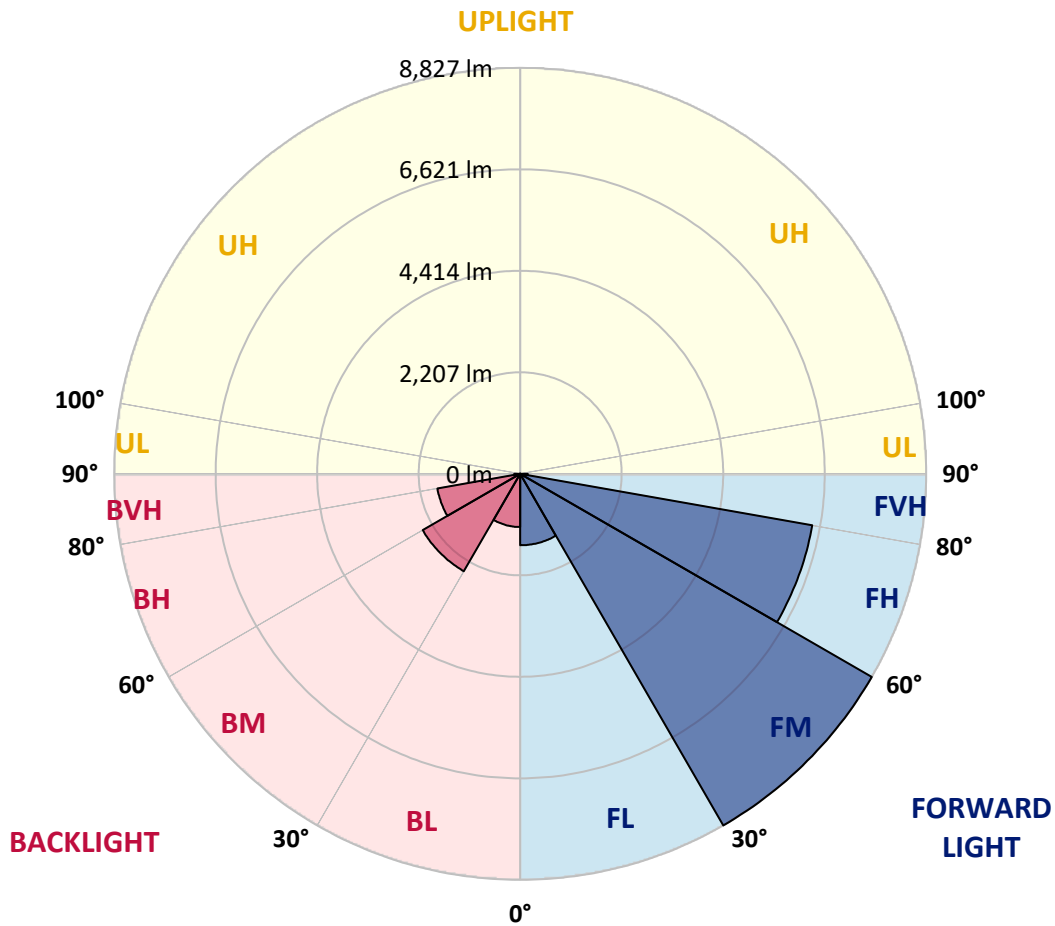
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1553.1	6.9			
FM (30°-60°)	8827.4	39.1			
FH (60°-80°)	6448.3	28.6			G3/7500
FVH (80°-90°)	165.1	0.7			G2/225
BL (0°-30°)	1156.7	5.1	B3/2500		
BM (30°-60°)	2446.2	10.8	B2/2500		
BH (60°-80°)	1827.3	8.1	B3/2500		G3/2500
BVH (80°-90°)	129.8	0.6			G2/225
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°	82°	85°
0°	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7
2.5°	3385.7	3404.8	3398.9	3392.9	3392.9	3384.5	3383.3	3371.3	3361.8	3346.2	3342.6
5°	3428.8	3449.1	3446.7	3451.5	3467.1	3470.7	3474.2	3467.1	3447.9	3428.8	3420.4
7.5°	3390.5	3413.2	3420.4	3449.1	3497.0	3540.1	3572.4	3585.5	3567.6	3540.1	3526.9
10°	3261.2	3286.4	3311.5	3379.7	3464.7	3566.4	3652.6	3704.0	3700.4	3674.1	3651.4
12.5°	2999.1	3025.5	3079.3	3212.2	3367.7	3547.3	3707.6	3815.3	3852.4	3833.3	3793.8
15°	2789.7	2812.4	2853.1	2989.6	3191.8	3464.7	3728.0	3937.4	4031.9	4021.2	3973.3
17.5°	2783.7	2793.3	2818.4	2883.0	3038.6	3335.4	3706.4	4057.1	4237.8	4236.6	4176.8
20°	2889.0	2892.6	2907.0	2920.1	3008.7	3237.3	3651.4	4156.4	4468.8	4468.8	4404.1
22.5°	3035.0	3032.6	3047.0	3035.0	3078.1	3228.9	3616.7	4243.8	4726.1	4745.2	4663.8
25°	3254.0	3242.1	3238.5	3211.0	3219.3	3306.7	3655.0	4343.1	5031.3	5070.7	4969.0
27.5°	3546.1	3526.9	3513.7	3450.3	3428.8	3467.1	3772.2	4462.8	5371.1	5439.4	5310.1
30°	3926.6	3891.9	3872.8	3762.7	3684.9	3690.9	3949.4	4622.0	5726.6	5836.7	5672.7
32.5°	4446.0	4392.2	4340.7	4160.0	4017.6	3970.9	4178.0	4842.2	6111.9	6287.9	6077.2
35°	5027.7	4984.6	4929.5	4650.7	4431.7	4324.0	4486.7	5149.7	6563.1	6842.0	6567.9
37.5°	5587.8	5550.7	5577.0	5201.2	4918.8	4762.0	4891.2	5562.6	7119.6	7531.3	7183.1
40°	6167.0	6138.3	6141.9	5782.8	5453.7	5277.8	5381.9	6080.8	7757.5	8351.1	7922.7
42.5°	6796.5	6775.0	6703.2	6384.8	6015.0	5851.0	5946.8	6679.2	8442.1	9284.6	8734.1
45°	7501.4	7488.2	7421.2	7056.2	6632.5	6448.2	6577.5	7339.8	9130.2	10163.0	9549.1
47.5°	8110.6	8121.3	8113.0	7805.4	7366.2	7095.7	7250.1	8029.2	9770.5	10988.8	10330.6
50°	8403.8	8460.0	8542.6	8446.9	8174.0	7898.7	7928.7	8694.6	10380.9	11763.1	11079.8
52.5°	8250.6	8357.1	8582.1	8735.3	8840.6	8783.2	8703.0	9355.2	10955.3	12462.1	11788.3
55°	7679.7	7829.3	8202.7	8572.5	9109.9	9527.6	9632.9	10087.6	11515.4	13077.2	12458.5
57.5°	6639.7	6882.7	7217.8	7965.8	8870.5	9887.8	10717.1	11103.7	12109.0	13734.2	13159.8
60°	4856.5	5182.1	5598.5	6711.5	8032.8	9695.1	11639.9	12664.3	12952.7	14585.1	14072.9
62.5°	3108.0	3309.1	3692.1	4740.4	6259.2	8707.8	11922.3	14615.1	14382.9	15980.6	15442.0
65°	2127.9	2257.1	2607.8	3196.6	4046.3	6481.8	11165.9	16077.5	16654.4	18192.2	17782.9
67.5°	1546.2	1644.4	1943.6	2459.4	2636.5	3835.7	8664.7	16010.5	18862.4	20470.9	19834.2
70°	1127.4	1196.8	1448.1	1943.6	2028.5	2133.9	5249.1	13609.8	18814.6	21076.5	20314.1
72.5°	835.4	883.2	1052.0	1507.9	1642.0	1440.9	2598.2	9891.4	16167.3	19063.5	18451.9
75°	604.4	640.3	764.7	1153.7	1314.1	1097.4	1296.1	5780.4	11277.2	13409.9	13517.6
77.5°	462.0	489.5	570.9	844.9	1052.0	823.4	804.2	2659.2	5347.2	5373.5	5675.1
80°	371.0	389.0	433.2	594.8	806.6	616.3	524.2	1073.5	1689.9	1430.2	1500.8
82.5°	272.9	302.8	366.2	417.7	576.8	424.9	319.5	542.1	642.7	552.9	557.7
85°	155.6	175.9	221.4	299.2	368.6	259.7	183.1	240.6	299.2	245.3	219.0
87.5°	55.1	71.8	77.8	117.3	160.4	107.7	70.6	69.4	98.1	73.0	61.0
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°	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7	3306.7
2.5°	3330.6	3324.7	3300.7	3268.4	3234.9	3202.6	3191.8	3169.1	3153.5	3145.1	3154.7
5°	3397.7	3378.5	3322.3	3250.4	3175.1	3093.7	3036.2	2983.6	2945.3	2909.4	2923.7
7.5°	3493.4	3459.9	3362.9	3237.3	3103.2	2968.0	2867.5	2790.9	2739.4	2705.9	2713.1
10°	3604.7	3553.2	3404.8	3216.9	3009.9	2816.0	2697.5	2631.7	2599.4	2581.5	2586.2
12.5°	3732.8	3659.7	3447.9	3170.3	2867.5	2646.1	2564.7	2545.5	2546.7	2547.9	2550.3
15°	3890.7	3789.0	3482.6	3068.5	2682.0	2515.6	2501.3	2532.4	2564.7	2580.3	2579.1
17.5°	4069.0	3925.4	3488.6	2901.0	2500.1	2431.9	2477.3	2544.4	2593.4	2615.0	2619.7
20°	4260.5	4064.3	3445.5	2664.0	2350.5	2363.6	2445.0	2531.2	2585.0	2612.6	2619.7
22.5°	4479.5	4212.7	3342.6	2415.1	2228.4	2289.4	2385.2	2469.0	2525.2	2552.7	2559.9
25°	4729.7	4379.0	3181.0	2205.7	2123.1	2205.7	2301.4	2370.8	2416.3	2441.4	2448.6
27.5°	5007.3	4552.5	2965.6	2039.3	2030.9	2119.5	2198.5	2252.3	2276.3	2295.4	2302.6
30°	5286.2	4710.5	2704.7	1913.6	1950.7	2034.5	2090.8	2114.7	2121.9	2125.5	2133.9
32.5°	5587.8	4847.0	2430.7	1809.5	1874.2	1951.9	1985.5	1996.2	1962.7	1940.0	1947.2
35°	5952.8	4993.0	2162.6	1727.0	1798.8	1865.8	1876.5	1867.0	1827.5	1780.8	1783.2
37.5°	6404.0	5174.9	1948.4	1668.3	1728.1	1772.4	1759.3	1756.9	1760.5	1705.4	1709.0
40°	6956.9	5411.8	1791.6	1622.8	1670.7	1680.3	1643.2	1663.5	1681.5	1597.7	1600.1
42.5°	7570.8	5697.9	1692.2	1591.7	1622.8	1600.1	1542.6	1565.4	1563.0	1452.9	1451.7
45°	8196.7	6009.0	1657.5	1569.0	1578.6	1533.1	1469.6	1475.6	1425.4	1326.0	1329.6
47.5°	8819.1	6342.9	1679.1	1549.8	1523.5	1472.0	1423.0	1396.6	1322.4	1248.2	1248.2
50°	9429.4	6693.6	1758.1	1511.5	1448.1	1418.2	1382.3	1335.6	1256.6	1193.2	1188.4
52.5°	9995.5	7046.6	1846.6	1448.1	1353.6	1371.5	1348.8	1294.9	1217.1	1152.5	1153.7
55°	10531.6	7399.7	1881.3	1360.7	1265.0	1330.8	1317.7	1218.3	1125.0	1072.3	1067.5
57.5°	11115.7	7824.5	1843.0	1249.4	1193.2	1284.1	1233.9	1123.8	1069.9	1030.4	1026.8
60°	11924.7	8491.1	1760.5	1111.8	1125.0	1214.7	1128.6	1083.1	1024.4	980.2	977.8
62.5°	13268.7	9734.6	1627.6	975.4	1044.8	1111.8	1078.3	1032.8	973.0	929.9	929.9
65°	15255.3	11462.7	1377.5	868.9	955.0	1011.3	1024.4	979.0	916.7	871.3	873.6
67.5°	16930.8	12547.0	1042.4	780.3	862.9	929.9	967.0	922.7	856.9	812.6	813.8
70°	16838.7	11759.5	795.9	692.9	781.5	849.7	897.6	862.9	792.3	750.4	754.0
72.5°	14956.1	9837.5	643.9	604.4	698.9	765.9	823.4	797.1	725.2	684.6	684.6
75°	10987.6	6983.2	514.6	514.6	596.0	678.6	742.0	725.2	659.4	630.7	622.3
77.5°	4631.5	2929.7	403.3	427.2	495.5	582.8	661.8	667.8	610.4	646.3	586.4
80°	1231.5	807.8	307.6	336.3	389.0	481.1	575.7	573.3	511.0	477.5	444.0
82.5°	469.1	318.3	219.0	237.0	281.2	368.6	456.0	470.3	408.1	353.0	353.0
85°	180.7	136.4	135.2	142.4	164.0	244.1	344.7	356.6	307.6	260.9	269.3
87.5°	46.7	40.7	50.3	47.9	75.4	130.4	197.5	204.6	187.9	108.9	155.6
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)