

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: LUMARK

Report Number: P966590

Luminaire Tested: **NAV-SB4C-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966590
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: LUMARK
Catalog Number: NAV-SB4C-722-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26090.3 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

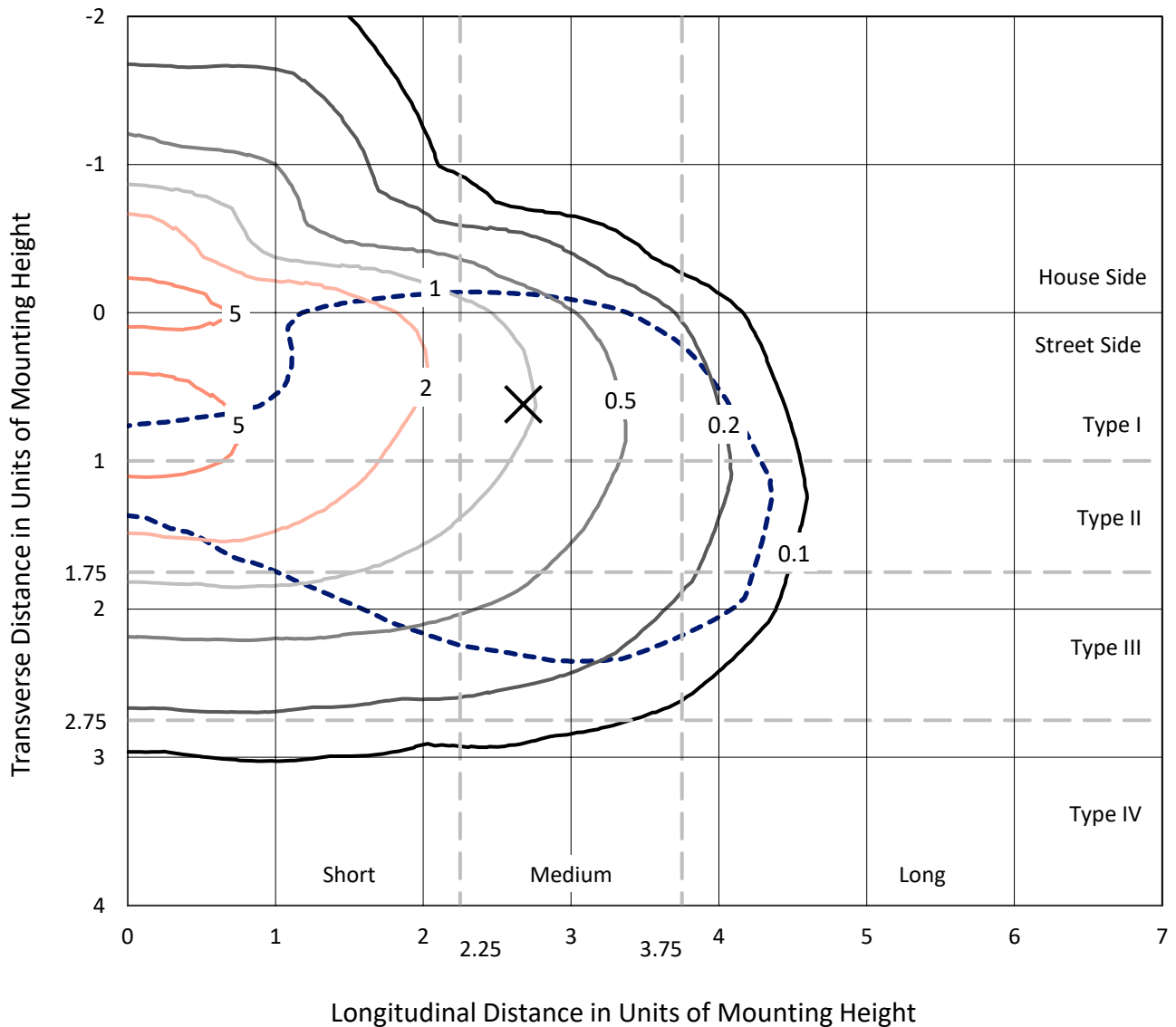
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

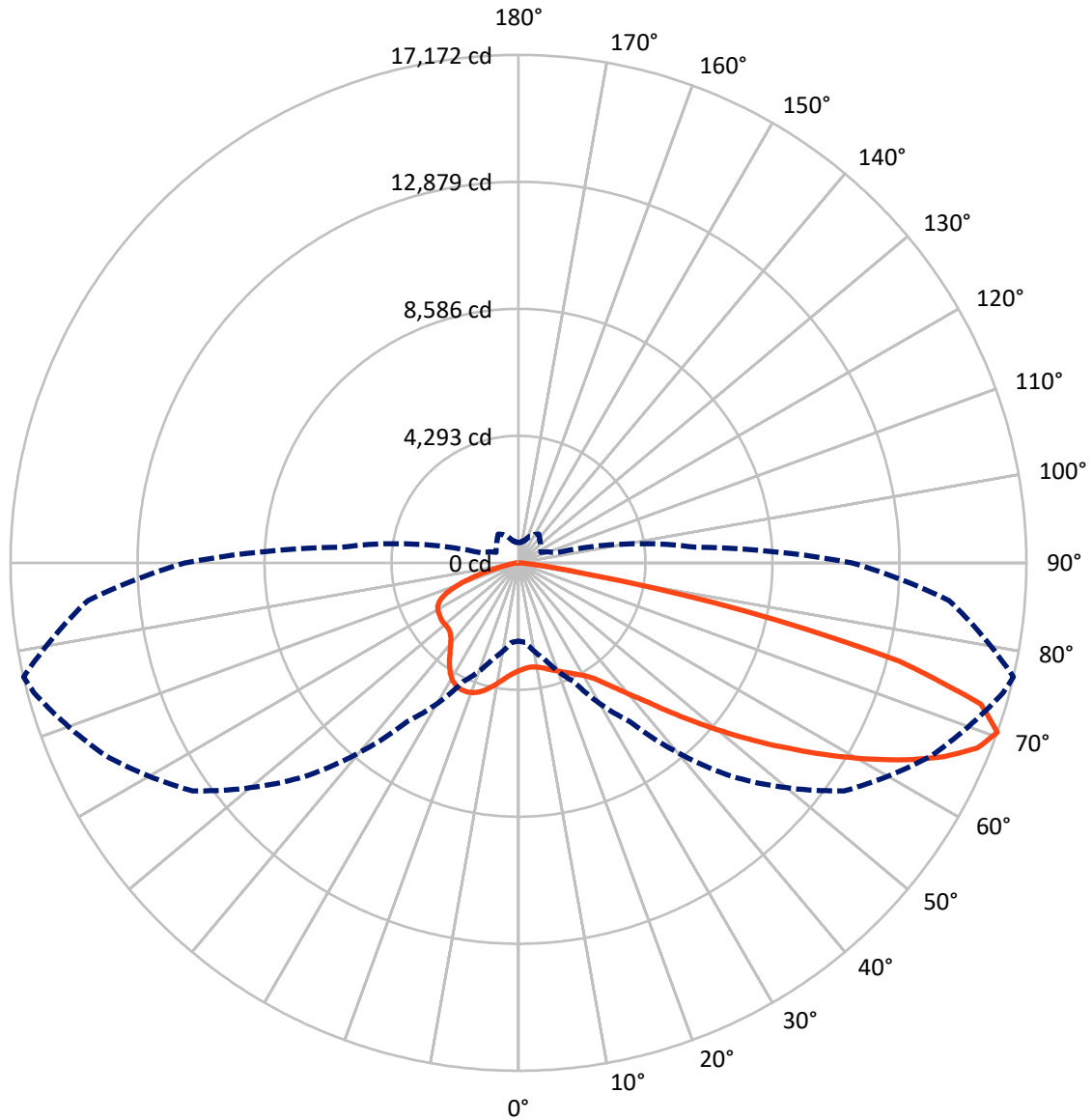
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - N/A

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CATALOG NUMBER: NAV-SB4C-722-U-T3R

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: NAV-SB4C-722-U-T3R

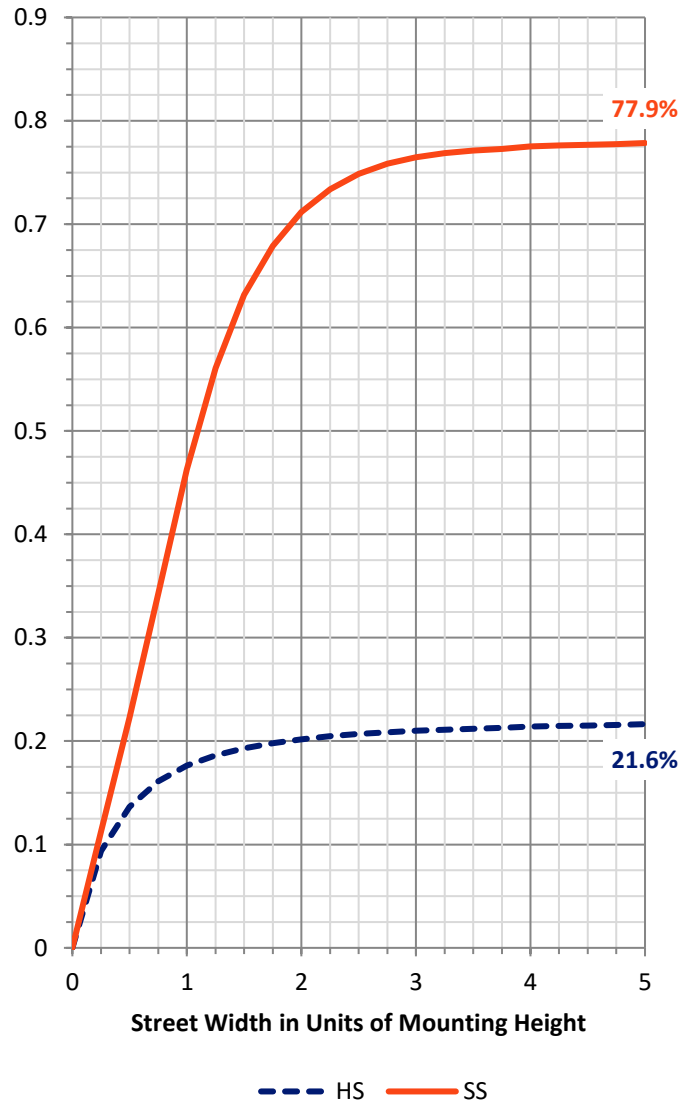
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5713.4	0.0	5713.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	20377.0	0.0	20377.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	26090.3	0.0	26090.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.1	1.3
10°-20°	1001.9	3.8
20°-30°	1713.4	6.6
30°-40°	2755.3	10.6
40°-50°	4301.7	16.5
50°-60°	5746.1	22.0
60°-70°	6124.4	23.5
70°-80°	3770.1	14.5
80°-90°	330.4	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°	26090.3	100.0
0°-180°	26090.3	100.0

Coefficient of Utilization

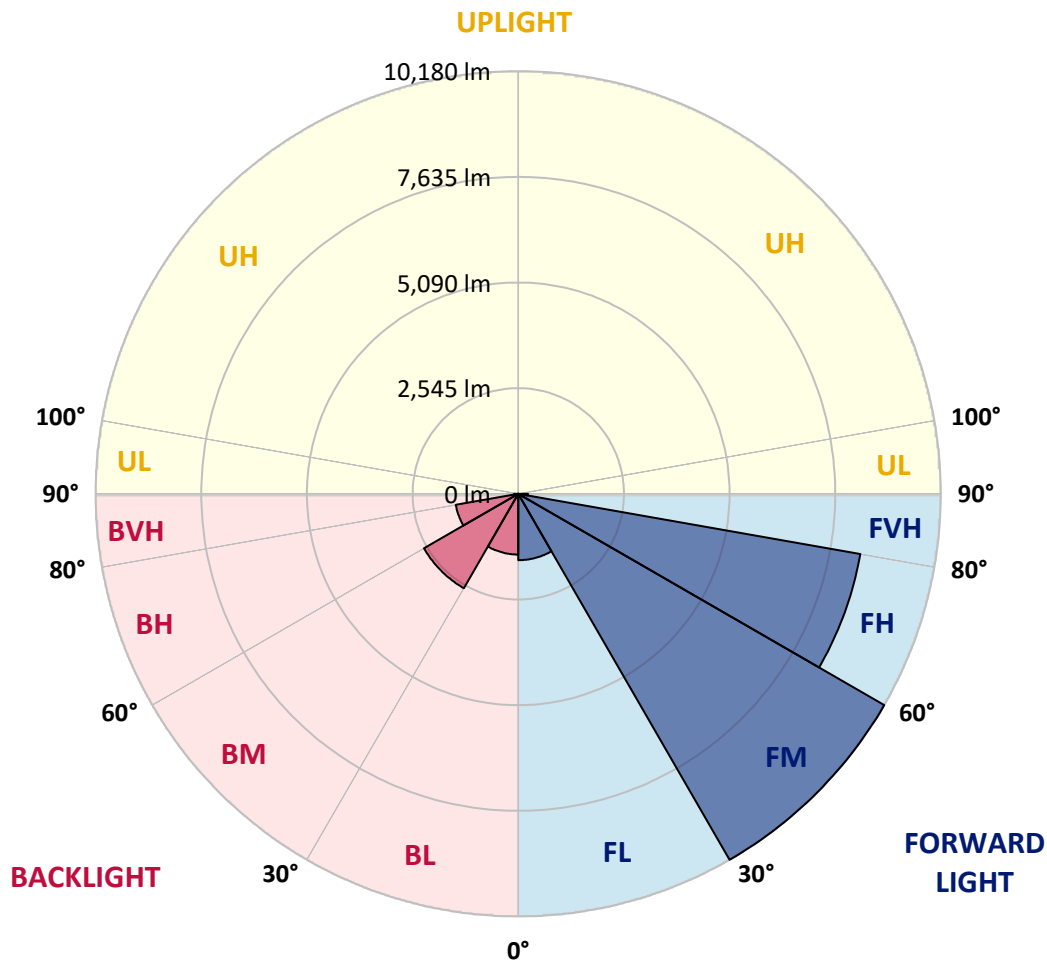


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 CATALOG NUMBER: NAV-SB4C-722-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1598.5	6.1			
FM (30°-60°)	10179.9	39.0			
FH (60°-80°)	8367.6	32.1			G4/12000
FVH (80°-90°)	231.0	0.9			G3/500
BL (0°-30°)	1464.0	5.6	B3/2500		
BM (30°-60°)	2623.1	10.1	B3/5000		
BH (60°-80°)	1526.9	5.9	B3/2500		G3/2500
BVH (80°-90°)	99.4	0.4			G1/100
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°	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9
2.5°	3355.2	3353.9	3371.2	3376.7	3408.6	3431.4	3474.1	3519.5	3578.4	3585.0	3621.1
5°	3161.5	3161.5	3181.5	3202.9	3244.3	3289.7	3355.2	3434.1	3535.6	3551.6	3641.2
7.5°	2997.1	3007.9	3025.2	3066.6	3114.7	3180.2	3280.4	3392.6	3526.3	3551.6	3695.9
10°	2864.9	2876.9	2898.3	2931.6	3003.8	3094.7	3225.6	3369.9	3549.0	3589.0	3776.1
12.5°	2823.5	2835.5	2847.4	2872.9	2939.7	3046.6	3202.9	3380.7	3603.8	3643.9	3885.7
15°	2919.6	2934.4	2924.9	2918.3	2953.0	3050.6	3213.6	3419.4	3672.0	3729.4	4020.7
17.5°	3141.4	3146.7	3125.4	3062.6	3057.3	3109.3	3264.3	3472.8	3757.4	3820.3	4157.0
20°	3499.6	3490.2	3446.0	3321.8	3251.0	3240.3	3351.2	3553.0	3845.6	3912.4	4304.0
22.5°	3985.9	3975.3	3887.0	3690.6	3533.0	3428.7	3476.8	3657.2	3944.5	4019.3	4447.0
25°	4592.5	4577.9	4448.3	4181.0	3936.5	3678.6	3647.9	3794.9	4066.1	4135.6	4596.6
27.5°	5300.8	5288.7	5148.5	4795.7	4442.9	4020.7	3860.4	3956.5	4193.1	4271.9	4764.9
30°	6062.4	6097.1	5848.6	5469.1	5022.8	4467.0	4146.2	4155.7	4357.4	4428.2	4969.4
32.5°	6957.7	7017.8	6718.5	6237.4	5628.2	4952.0	4507.0	4433.5	4596.6	4655.3	5227.3
35°	7844.9	7913.0	7664.5	7132.7	6431.2	5523.9	4883.8	4752.9	4914.6	4978.7	5569.3
37.5°	8611.8	8702.8	8574.4	8112.2	7290.4	6213.3	5375.6	5128.4	5306.1	5386.3	6028.9
40°	9217.2	9356.2	9346.8	9058.2	8303.2	7049.8	5999.6	5592.1	5792.5	5879.3	6586.2
42.5°	9708.9	9829.1	9933.4	9918.7	9360.2	7999.9	6733.1	6194.7	6347.0	6447.2	7212.8
45°	10048.3	10176.6	10401.1	10642.9	10377.0	9016.7	7573.6	6909.5	7048.5	7199.5	7959.8
47.5°	10351.7	10497.3	10788.5	11172.1	11240.3	10037.6	8494.3	7742.0	7868.9	8025.3	8709.4
50°	10378.3	10504.0	10955.6	11499.5	11853.5	11018.4	9483.1	8676.0	8794.9	8962.0	9512.5
52.5°	9733.0	9930.7	10719.1	11490.0	12135.5	11838.9	10465.2	9647.4	9781.1	9981.6	10343.6
55°	7555.0	7844.9	10025.6	11132.0	12035.2	12369.3	11399.2	10680.3	10851.4	11061.2	11180.1
57.5°	6507.3	6634.3	7958.5	10479.9	11578.3	12506.9	12187.6	11723.9	11999.2	12229.0	12064.7
60°	5848.6	5954.1	6737.2	9465.8	10977.0	12289.1	12796.9	12696.7	13172.4	13446.3	12969.3
62.5°	5143.0	5243.3	5955.5	7903.7	10207.4	11927.0	13181.7	13594.6	14375.0	14674.3	13821.8
65°	4442.9	4528.4	5211.2	6641.0	9229.2	11564.9	13380.9	14371.0	15488.1	15798.0	14530.0
67.5°	3662.5	3733.4	4378.8	5602.8	8040.0	11069.2	13479.7	14981.6	16456.8	16722.7	14880.0
70°	2643.1	2697.8	3364.6	4430.9	6547.4	10216.7	13439.6	15414.6	16959.2	17171.6	14615.5
72.5°	1249.4	1298.8	2081.8	2876.9	4624.6	8557.1	12628.5	15071.1	16448.8	16343.2	12996.0
75°	666.8	709.5	1195.9	1578.1	2442.6	5866.0	10334.3	12982.6	13812.4	13299.3	9604.7
77.5°	451.6	485.0	740.3	947.4	1115.7	2784.6	6642.3	8988.7	8647.9	7800.8	4810.3
80°	358.1	392.9	606.6	641.3	539.9	1006.1	2744.5	4161.0	2989.1	2390.5	1368.3
82.5°	275.2	314.1	510.4	465.0	294.0	412.9	799.1	1316.2	765.7	582.6	331.4
85°	168.4	209.8	400.9	296.6	165.6	188.4	271.2	366.1	233.8	195.1	118.9
87.5°	85.5	120.2	203.2	108.2	74.8	44.1	72.2	72.2	61.5	53.4	30.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P966590
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9	3639.9
2.5°	3653.2	3680.0	3725.4	3768.1	3801.5	3833.6	3865.7	3883.0	3888.3	3909.8	3921.8
5°	3695.9	3745.5	3833.6	3916.4	3968.6	4000.6	4023.3	4036.7	4039.3	4046.1	4056.7
7.5°	3774.8	3853.6	3976.6	4059.4	4098.2	4095.5	4086.2	4052.7	4039.3	4027.3	4030.0
10°	3885.7	3989.9	4140.9	4198.4	4174.3	4110.1	4027.3	3929.8	3884.3	3840.3	3826.9
12.5°	4023.3	4155.7	4304.0	4301.3	4182.3	4018.0	3825.6	3676.0	3581.0	3512.9	3496.9
15°	4190.4	4342.7	4456.3	4365.4	4104.8	3809.5	3527.6	3332.5	3247.0	3172.2	3164.2
17.5°	4362.7	4525.8	4577.9	4345.4	3909.8	3500.9	3181.5	3027.8	2943.7	2903.6	2915.6
20°	4531.1	4692.8	4650.0	4230.5	3613.1	3150.7	2866.2	2782.0	2764.6	2774.0	2770.0
22.5°	4708.8	4853.2	4664.7	4008.7	3235.0	2792.7	2636.3	2639.1	2677.8	2705.8	2712.6
25°	4890.6	4988.1	4625.9	3688.0	2828.8	2529.5	2490.8	2533.5	2609.6	2664.4	2679.1
27.5°	5065.5	5108.3	4541.8	3291.1	2480.0	2341.0	2347.8	2435.9	2550.8	2627.0	2645.7
30°	5263.4	5215.2	4380.1	2844.8	2238.2	2179.4	2235.5	2338.3	2453.2	2521.4	2537.5
32.5°	5486.5	5307.4	4123.6	2431.9	2067.1	2049.8	2141.9	2208.8	2259.5	2279.6	2290.3
35°	5764.4	5437.0	3794.9	2141.9	1913.5	1954.9	2043.0	2009.6	1989.6	1979.0	1989.6
37.5°	6125.2	5612.1	3410.0	1953.5	1789.1	1886.7	1922.8	1818.6	1739.7	1701.0	1710.3
40°	6559.5	5868.6	3039.8	1807.9	1710.3	1828.0	1765.2	1639.5	1539.3	1484.5	1488.5
42.5°	7041.9	6137.2	2728.5	1698.3	1666.2	1779.8	1648.9	1499.3	1337.5	1320.2	1337.5
45°	7548.3	6413.8	2516.1	1614.2	1644.9	1738.4	1582.1	1340.2	1225.3	1296.1	1333.5
47.5°	8054.7	6667.7	2387.8	1551.3	1634.2	1691.7	1523.3	1252.0	1170.6	1273.5	1321.5
50°	8618.6	6894.9	2330.3	1505.9	1622.2	1672.9	1435.1	1229.3	1113.0	1181.2	1231.9
52.5°	9178.5	7071.3	2287.6	1460.5	1604.7	1658.2	1392.4	1202.6	1043.6	1047.6	1075.6
55°	9737.0	7186.2	2240.9	1400.4	1566.0	1626.2	1388.4	1173.2	991.5	972.7	986.2
57.5°	10332.9	7251.7	2183.4	1333.5	1499.3	1544.7	1384.4	1150.5	975.4	944.7	948.7
60°	10939.5	7347.8	2108.5	1252.0	1409.7	1447.1	1374.9	1142.5	966.1	914.0	918.0
62.5°	11483.4	7381.2	2019.0	1174.5	1294.8	1350.9	1354.9	1135.8	940.6	851.2	851.2
65°	11840.2	7236.9	1862.6	1086.3	1170.6	1252.0	1316.2	1113.0	895.2	805.8	805.8
67.5°	11825.5	6825.4	1618.2	972.7	1050.2	1142.5	1260.0	1074.3	840.5	749.6	753.6
70°	11275.0	6013.0	1308.1	840.5	918.0	1024.9	1187.9	1016.9	775.0	688.2	696.2
72.5°	9670.2	4706.2	950.1	685.5	764.3	903.2	1094.4	947.4	708.2	633.3	629.3
75°	6908.2	2978.4	644.0	526.4	594.6	765.7	978.2	865.8	646.8	636.0	599.9
77.5°	3529.0	1423.1	426.3	384.8	414.2	603.9	821.7	773.7	656.1	525.1	467.7
80°	1147.8	525.1	268.5	261.9	275.2	402.2	636.0	634.7	497.0	356.8	315.4
82.5°	366.1	225.8	175.1	168.4	161.6	252.6	443.6	502.5	335.4	225.8	224.5
85°	145.7	135.0	102.9	94.9	68.2	118.9	232.5	334.0	249.9	163.0	167.1
87.5°	53.4	53.4	28.1	20.1	14.7	40.1	62.8	100.2	143.0	84.2	82.8
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)