

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: P966587

Luminaire Tested: **NAV-SB4C-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25182.2 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

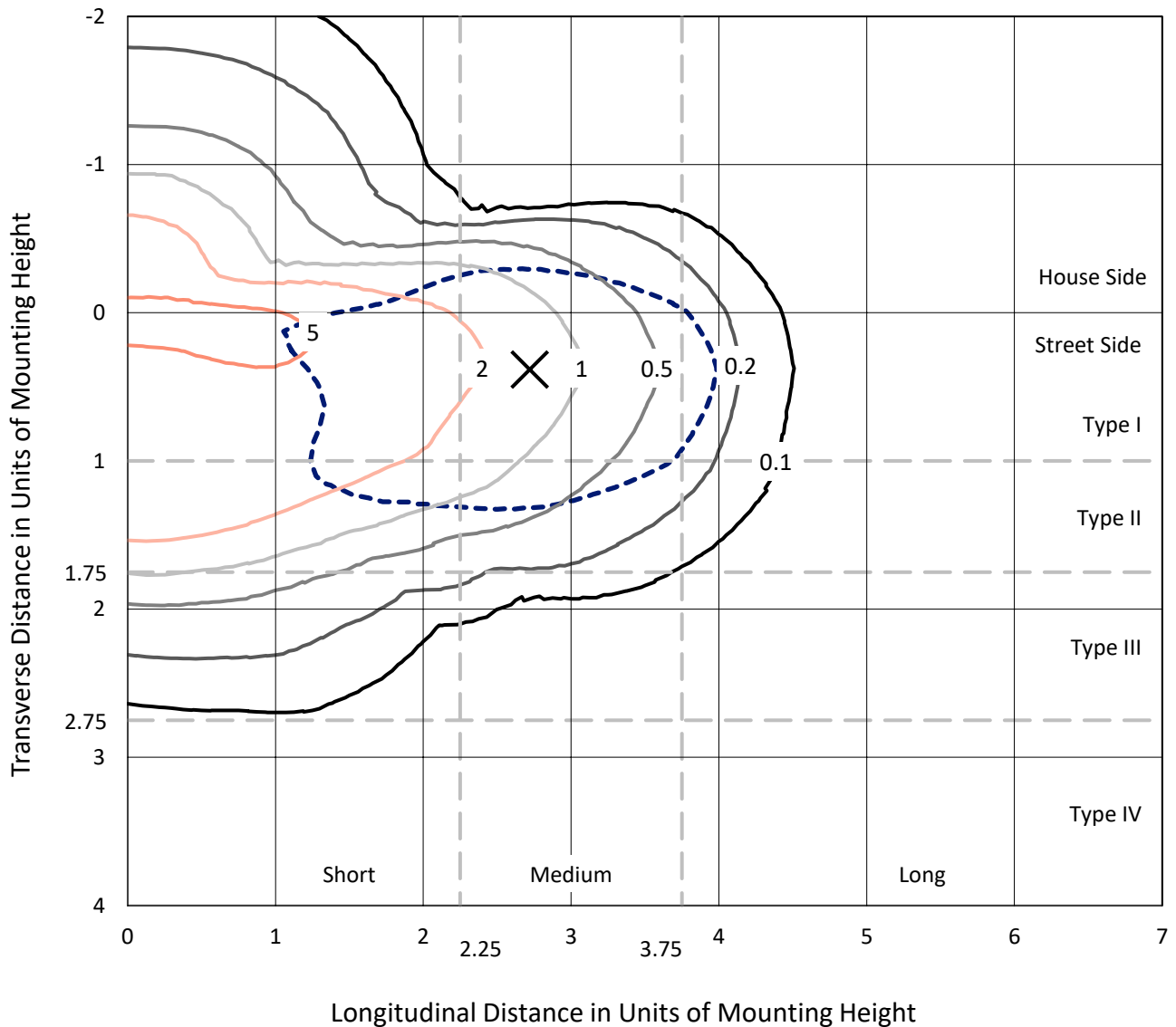
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

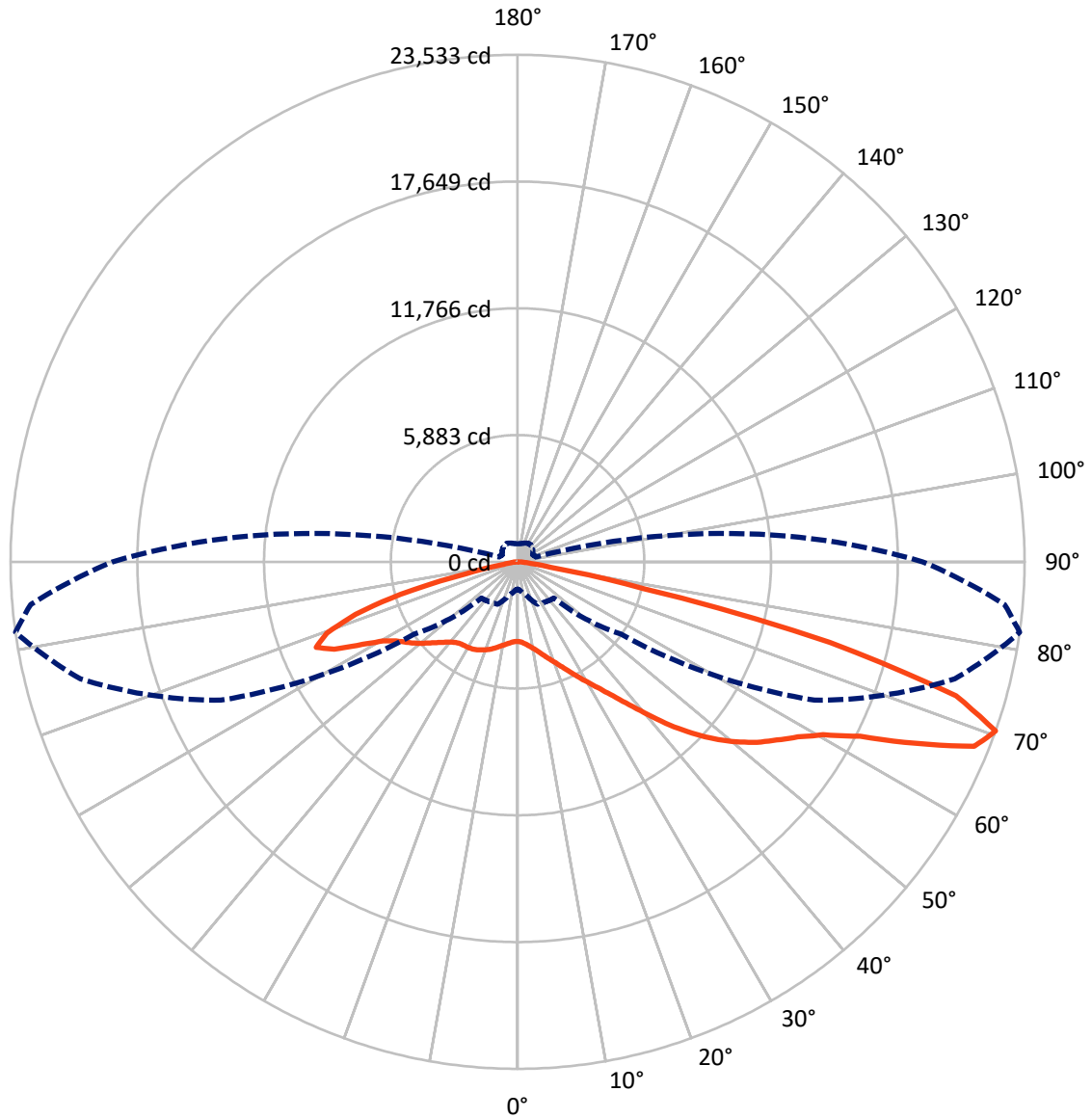
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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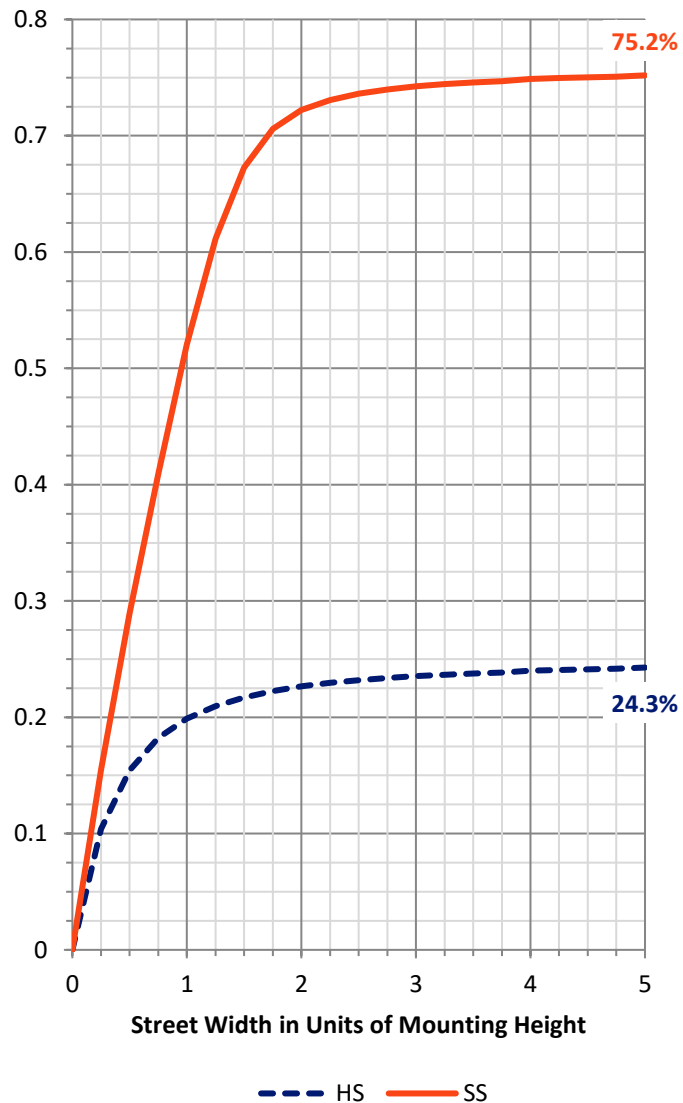
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6208.0	0.0	6208.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	18974.2	0.0	18974.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	25182.2	0.0	25182.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.6	1.4
10°-20°	1001.5	4.0
20°-30°	1675.5	6.7
30°-40°	2617.5	10.4
40°-50°	4168.7	16.6
50°-60°	5801.2	23.0
60°-70°	6068.3	24.1
70°-80°	3171.6	12.6
80°-90°	329.3	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°	25182.2	100.0
0°-180°	25182.2	100.0

Coefficient of Utilization

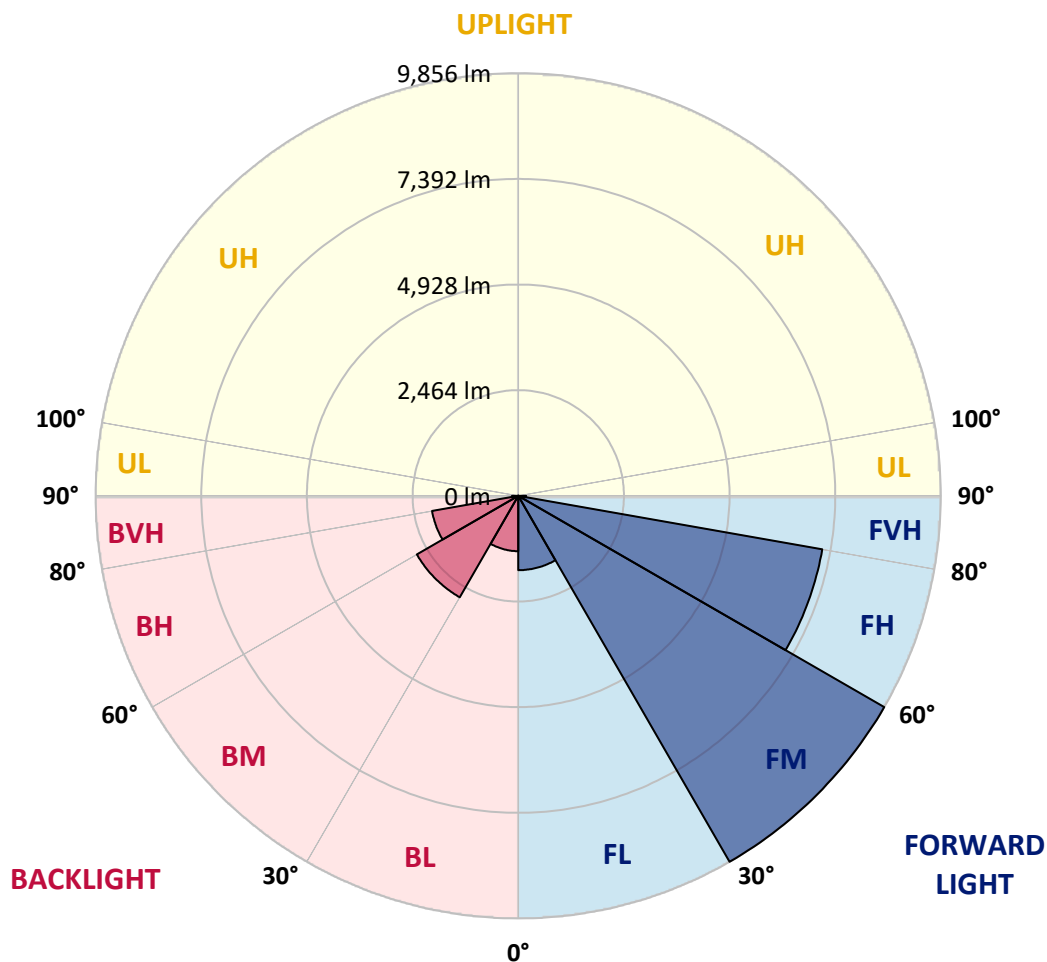


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1734.1	6.9			
FM (30°-60°)	9856.1	39.1			
FH (60°-80°)	7199.7	28.6			G3/7500
FVH (80°-90°)	184.4	0.7			G2/225
BL (0°-30°)	1291.5	5.1	B3/2500		
BM (30°-60°)	2731.3	10.8	B3/5000		
BH (60°-80°)	2040.3	8.1	B3/2500		G3/2500
BVH (80°-90°)	145.0	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°	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0
2.5°	3780.2	3801.6	3795.0	3788.2	3788.2	3778.9	3777.5	3764.2	3753.4	3736.1	3732.1
5°	3828.3	3851.0	3848.4	3853.7	3871.1	3875.1	3879.1	3871.1	3849.7	3828.3	3818.9
7.5°	3785.5	3811.0	3818.9	3851.0	3904.5	3952.6	3988.7	4003.3	3983.4	3952.6	3937.8
10°	3641.2	3669.3	3697.4	3773.5	3868.5	3982.0	4078.2	4135.7	4131.7	4102.3	4076.8
12.5°	3348.6	3378.0	3438.2	3586.5	3760.2	3960.6	4139.7	4259.9	4301.3	4280.0	4235.9
15°	3114.8	3140.2	3185.6	3337.9	3563.7	3868.5	4162.4	4396.2	4501.8	4489.8	4436.3
17.5°	3108.1	3118.8	3146.9	3219.0	3392.7	3724.1	4138.3	4529.9	4731.6	4730.3	4663.4
20°	3225.7	3229.7	3245.8	3260.4	3359.3	3614.6	4076.8	4640.8	4989.5	4989.5	4917.3
22.5°	3388.6	3386.0	3402.1	3388.6	3436.8	3605.1	4038.1	4738.3	5276.8	5298.2	5207.3
25°	3633.2	3619.9	3615.9	3585.1	3594.5	3692.0	4080.8	4849.2	5617.5	5661.7	5548.0
27.5°	3959.3	3937.8	3923.2	3852.4	3828.3	3871.1	4211.8	4982.8	5997.1	6073.2	5928.9
30°	4384.2	4345.5	4324.1	4201.2	4114.2	4120.9	4409.5	5160.6	6393.8	6516.8	6333.8
32.5°	4964.1	4904.0	4846.5	4644.8	4485.7	4433.6	4664.8	5406.5	6824.1	7020.6	6785.4
35°	5613.5	5565.4	5503.9	5192.6	4948.1	4827.9	5009.6	5749.8	7327.9	7639.2	7333.3
37.5°	6238.9	6197.5	6226.9	5807.2	5492.0	5316.9	5461.2	6210.9	7949.3	8408.9	8020.1
40°	6885.6	6853.6	6857.6	6456.7	6089.2	5892.8	6009.1	6789.4	8661.5	9324.2	8845.9
42.5°	7588.5	7564.4	7484.2	7128.9	6715.9	6532.8	6639.7	7457.6	9425.8	10366.5	9751.8
45°	8375.6	8360.8	8286.0	7878.5	7405.4	7199.6	7343.9	8195.2	10194.1	11347.4	10661.8
47.5°	9055.7	9067.7	9058.3	8715.0	8224.5	7922.5	8094.9	8964.9	10909.1	12269.4	11534.4
50°	9383.1	9445.9	9538.0	9431.1	9126.5	8819.2	8852.6	9707.8	11590.5	13133.8	12370.9
52.5°	9212.0	9331.0	9582.2	9753.2	9870.8	9806.7	9717.1	10445.4	12231.9	13914.3	13161.9
55°	8574.6	8741.7	9158.6	9571.4	10171.5	10637.8	10755.4	11263.1	12857.3	14601.0	13910.3
57.5°	7413.4	7684.7	8058.9	8894.0	9904.2	11040.0	11966.1	12397.6	13520.1	15334.7	14693.3
60°	5422.5	5785.9	6251.0	7493.7	8968.9	10824.8	12996.3	14140.1	14462.1	16284.7	15712.8
62.5°	3470.2	3694.7	4122.3	5292.8	6988.6	9722.4	13311.6	16318.1	16058.9	17842.8	17241.5
65°	2375.8	2520.2	2911.6	3569.0	4517.8	7237.1	12467.1	17951.0	18595.0	20312.1	19855.2
67.5°	1726.4	1836.0	2170.0	2746.0	2943.7	4282.7	9674.4	17876.2	21060.5	22856.4	22145.4
70°	1258.7	1336.2	1616.8	2170.0	2264.9	2382.5	5860.7	15195.7	21007.0	23532.5	22681.3
72.5°	932.6	986.2	1174.5	1683.7	1833.3	1608.8	2901.0	11044.0	18051.3	21284.9	20602.1
75°	674.8	714.9	853.8	1288.1	1467.2	1225.3	1447.1	6454.0	12591.4	14972.6	15092.8
77.5°	515.8	546.5	637.3	943.4	1174.5	919.3	898.0	2969.1	5970.3	5999.7	6336.4
80°	414.2	434.3	483.7	664.1	900.7	688.2	585.3	1198.6	1886.7	1596.8	1675.7
82.5°	304.6	338.0	408.9	466.4	644.1	474.4	356.8	605.4	717.6	617.4	622.7
85°	173.7	196.4	247.2	334.0	411.5	290.0	204.5	268.5	334.0	273.9	244.6
87.5°	61.5	80.2	86.8	131.0	179.1	120.2	78.8	77.5	109.6	81.5	68.2
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°	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0
2.5°	3718.7	3712.0	3685.4	3649.3	3611.9	3575.8	3563.7	3538.4	3521.0	3511.6	3522.3
5°	3793.6	3772.2	3709.4	3629.2	3545.1	3454.1	3390.1	3331.2	3288.5	3248.4	3264.4
7.5°	3900.4	3863.0	3754.8	3614.6	3464.9	3313.8	3201.6	3116.1	3058.6	3021.2	3029.3
10°	4024.8	3967.3	3801.6	3591.8	3360.7	3144.2	3011.9	2938.4	2902.3	2882.3	2887.6
12.5°	4167.8	4086.3	3849.7	3539.7	3201.6	2954.5	2863.5	2842.2	2843.6	2844.9	2847.6
15°	4344.2	4230.5	3888.4	3426.2	2994.5	2808.8	2792.7	2827.5	2863.5	2881.0	2879.6
17.5°	4543.2	4382.9	3895.1	3239.0	2791.4	2715.2	2766.0	2840.9	2895.6	2919.7	2925.0
20°	4757.0	4537.9	3847.0	2974.4	2624.4	2639.1	2730.0	2826.1	2886.3	2917.0	2925.0
22.5°	5001.5	4703.5	3732.1	2696.6	2488.1	2556.2	2663.2	2756.6	2819.5	2850.2	2858.2
25°	5280.8	4889.2	3551.7	2462.7	2370.5	2462.7	2569.6	2647.1	2697.9	2725.9	2734.0
27.5°	5590.9	5083.1	3311.2	2276.9	2267.6	2366.5	2454.7	2514.8	2541.5	2562.9	2570.9
30°	5902.2	5259.5	3019.9	2136.6	2178.0	2271.6	2334.4	2361.1	2369.2	2373.2	2382.5
32.5°	6238.9	5411.8	2713.9	2020.4	2092.5	2179.4	2216.8	2228.9	2191.4	2166.0	2174.0
35°	6646.4	5574.8	2414.6	1928.2	2008.4	2083.2	2095.2	2084.5	2040.5	1988.3	1991.0
37.5°	7150.2	5777.9	2175.4	1862.7	1929.6	1979.0	1964.3	1961.6	1965.6	1904.1	1908.1
40°	7767.6	6042.5	2000.4	1811.9	1865.4	1876.1	1834.6	1857.4	1877.4	1783.9	1786.6
42.5°	8453.1	6361.9	1889.5	1777.2	1811.9	1786.6	1722.4	1747.8	1745.2	1622.2	1620.8
45°	9151.9	6709.2	1850.7	1751.8	1762.5	1711.7	1640.9	1647.6	1591.4	1480.5	1484.6
47.5°	9846.8	7082.0	1874.7	1730.4	1701.0	1643.6	1588.7	1559.4	1476.5	1393.7	1393.7
50°	10528.2	7473.6	1963.0	1687.7	1616.8	1583.4	1543.3	1491.3	1403.0	1332.2	1326.9
52.5°	11160.3	7867.8	2061.8	1616.8	1511.3	1531.4	1505.9	1445.8	1358.9	1286.8	1288.1
55°	11758.9	8261.9	2100.5	1519.3	1412.4	1485.9	1471.2	1360.3	1256.0	1197.3	1192.0
57.5°	12411.0	8736.3	2057.8	1395.0	1332.2	1433.8	1377.7	1254.7	1194.6	1150.5	1146.5
60°	13314.2	9480.6	1965.6	1241.4	1256.0	1356.3	1260.0	1209.3	1143.8	1094.4	1091.7
62.5°	14814.8	10869.0	1817.3	1089.1	1166.6	1241.4	1204.0	1153.1	1086.4	1038.2	1038.2
65°	17033.0	12798.5	1538.0	970.1	1066.3	1129.1	1143.8	1093.1	1023.6	972.8	975.5
67.5°	18903.8	14009.1	1163.9	871.2	963.4	1038.2	1079.6	1030.2	956.7	907.3	908.7
70°	18800.9	13129.8	888.6	773.7	872.6	948.7	1002.1	963.4	884.6	837.8	841.8
72.5°	16699.0	10983.9	718.9	674.8	780.3	855.2	919.3	889.9	809.7	764.3	764.3
75°	12268.0	7797.0	574.6	574.6	665.4	757.7	828.5	809.7	736.3	704.2	694.8
77.5°	5171.2	3271.1	450.3	477.0	553.2	650.8	738.9	745.6	681.5	721.6	654.8
80°	1375.0	902.0	343.4	375.5	434.3	537.2	642.8	640.0	570.6	533.2	495.8
82.5°	523.8	355.5	244.6	264.6	314.1	411.5	509.1	525.1	455.6	394.2	394.2
85°	201.8	152.3	151.0	159.0	183.1	272.5	384.9	398.2	343.4	291.3	300.6
87.5°	52.1	45.4	56.2	53.4	84.2	145.7	220.5	228.5	209.8	121.6	173.7
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)