

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: P885101

Luminaire Tested: **NAV-SB6B-722-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26919 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

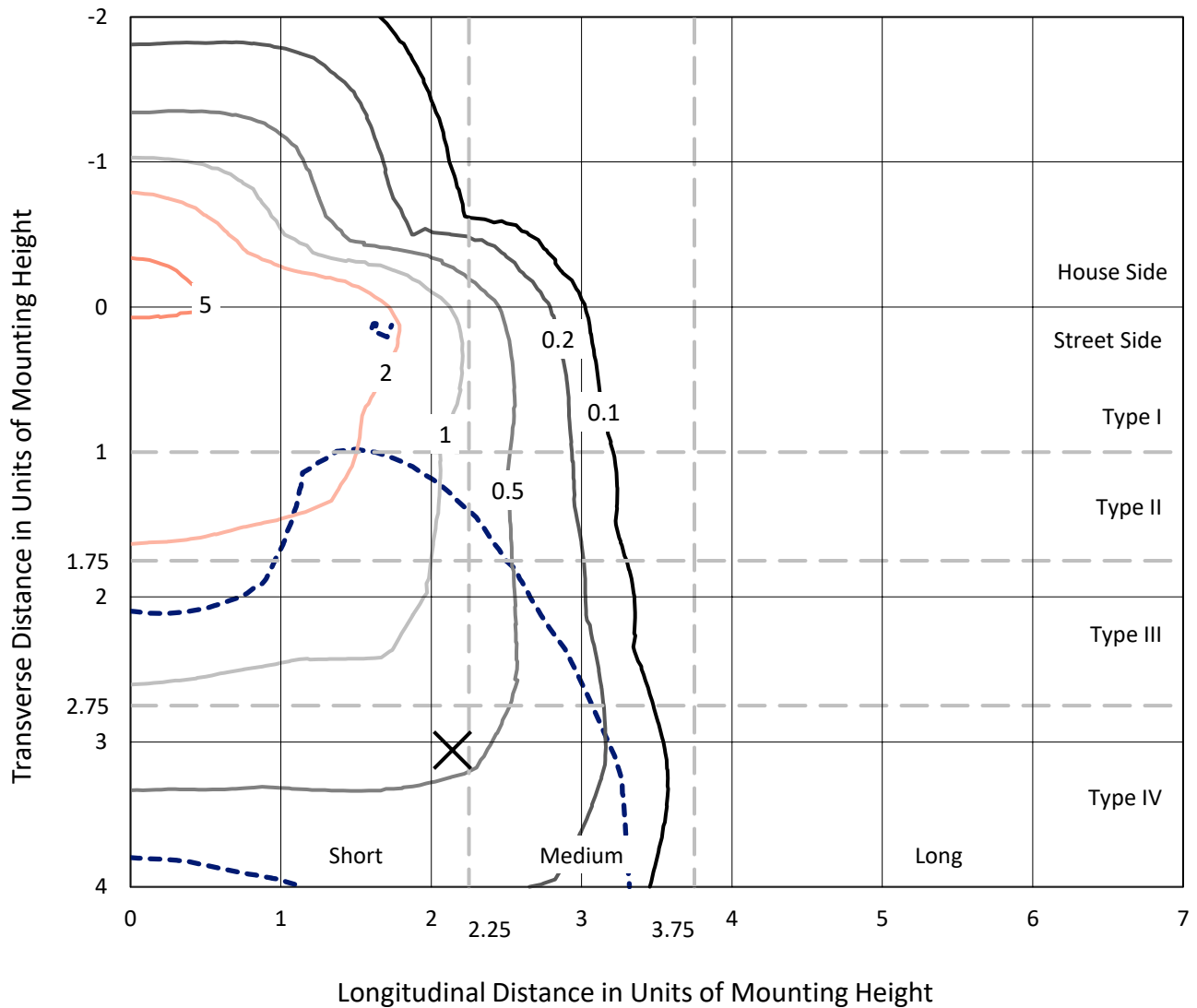
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

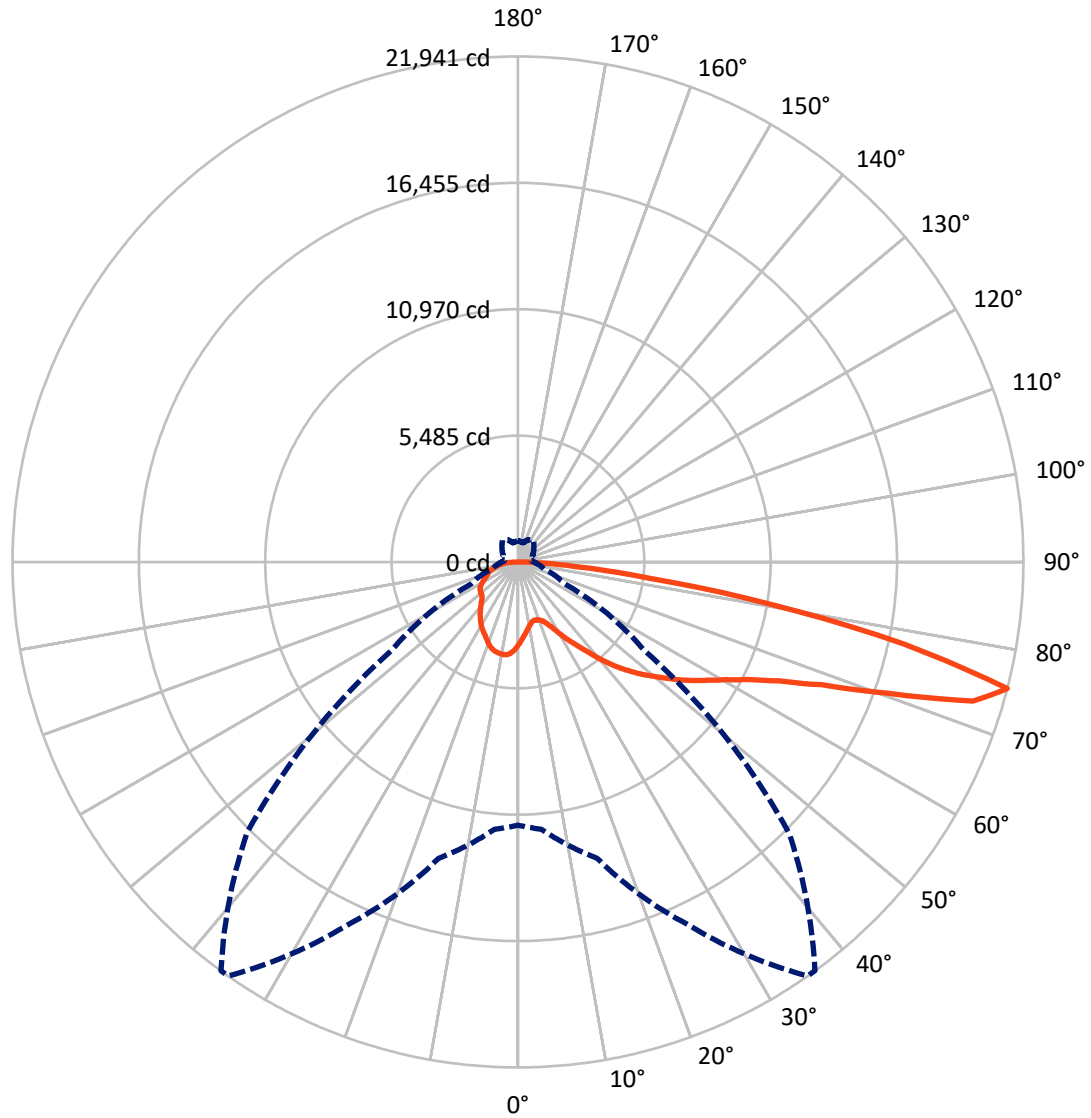
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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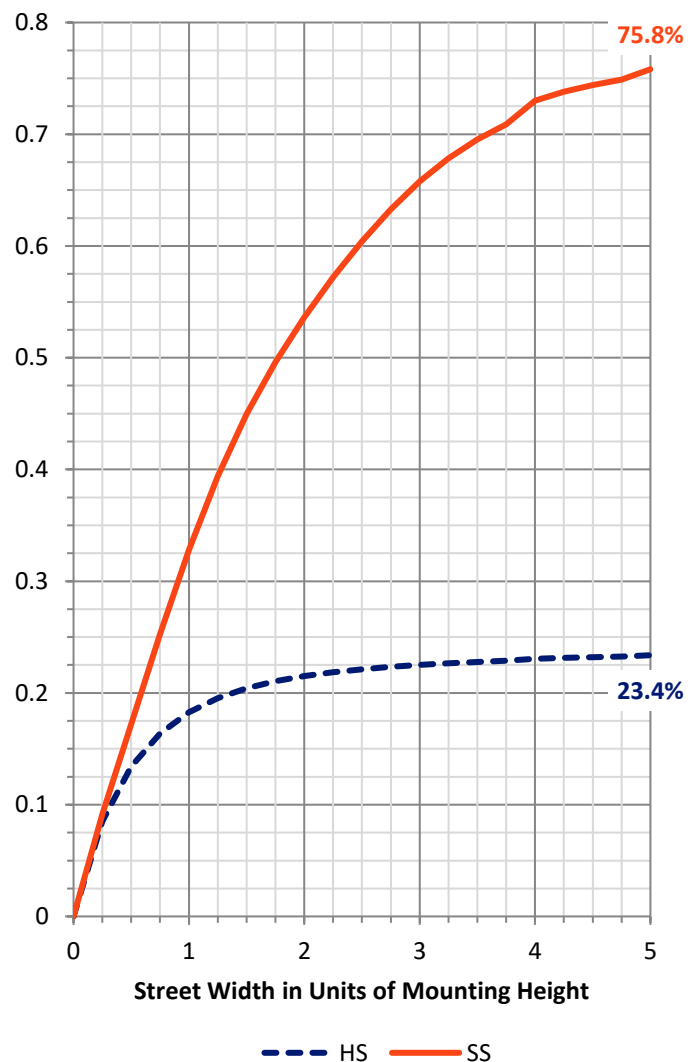
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6406.0	0.0	6406.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	20513.0	0.0	20513.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	26919.0	0.0	26919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.6	1.3
10°-20°	979.6	3.6
20°-30°	1645.1	6.1
30°-40°	2556.7	9.5
40°-50°	3794.8	14.1
50°-60°	5238.9	19.5
60°-70°	6356.0	23.6
70°-80°	5252.8	19.5
80°-90°	755.5	2.8
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°	26919.0	100.0
0°-180°	26919.0	100.0

Coefficient of Utilization



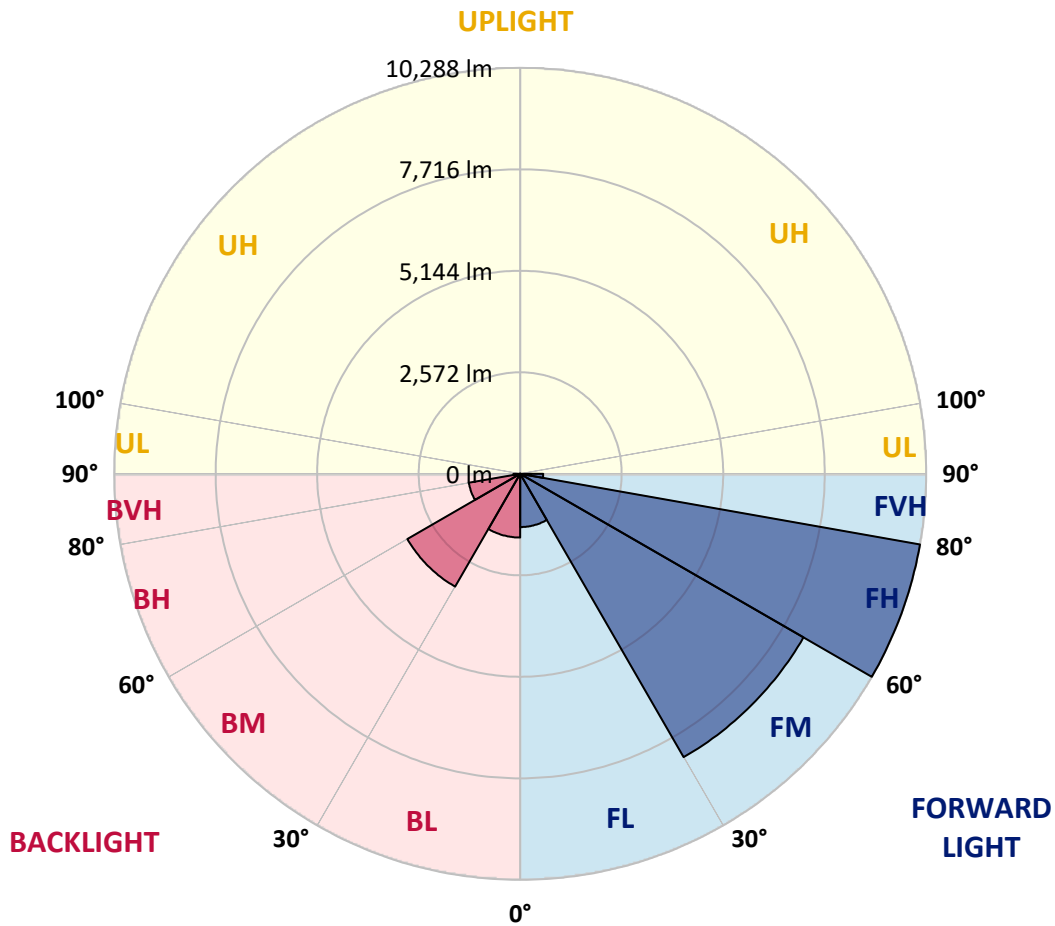
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1349.9	5.0			
FM (30°-60°)	8289.6	30.8			
FH (60°-80°)	10288.0	38.2			G4/12000
FVH (80°-90°)	585.4	2.2			G4/750
BL (0°-30°)	1614.4	6.0	B3/2500		
BM (30°-60°)	3300.8	12.3	B3/5000		
BH (60°-80°)	1320.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	170.1	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3587.1	3587.1	3587.1	3587.1	3587.1	3587.1	3587.1	3587.1	3587.1	3587.1	3587.1
2.5°	3307.7	3328.1	3336.8	3332.5	3354.3	3351.4	3382.0	3419.8	3472.2	3523.1	3597.3
5°	3053.1	3074.9	3093.8	3111.3	3153.5	3166.6	3214.6	3287.4	3383.4	3480.9	3603.1
7.5°	2815.9	2834.8	2863.9	2895.9	2967.2	2980.3	3060.3	3173.9	3307.7	3450.3	3619.2
10°	2622.3	2641.2	2671.8	2708.2	2796.9	2813.0	2914.8	3066.2	3240.8	3421.2	3636.6
12.5°	2539.4	2545.2	2562.7	2599.0	2676.2	2686.4	2798.4	2971.6	3175.3	3399.4	3662.8
15°	2535.0	2546.7	2548.1	2567.0	2631.1	2635.4	2738.7	2910.5	3134.6	3395.0	3702.1
17.5°	2578.7	2587.4	2574.3	2585.9	2639.8	2647.1	2728.6	2881.4	3121.5	3414.0	3769.0
20°	2695.1	2702.4	2663.1	2647.1	2686.4	2692.2	2772.2	2900.3	3134.6	3453.3	3860.7
22.5°	2942.5	2946.8	2850.8	2785.3	2788.2	2791.1	2861.0	2977.4	3185.5	3524.6	3977.1
25°	3328.1	3325.2	3172.4	3045.8	2973.0	2957.0	3003.6	3102.5	3271.4	3619.2	4127.0
27.5°	3779.2	3757.4	3604.6	3415.4	3256.8	3233.5	3223.3	3265.5	3393.6	3744.3	4310.4
30°	4288.6	4268.2	4103.7	3856.4	3636.6	3598.8	3502.7	3480.9	3575.5	3914.6	4565.1
32.5°	4847.4	4834.3	4637.8	4338.0	4044.1	4000.4	3838.9	3780.7	3854.9	4172.1	4920.1
35°	5316.0	5304.3	5141.3	4832.8	4473.4	4419.5	4255.1	4189.6	4227.4	4502.5	5384.3
37.5°	5739.4	5733.6	5593.9	5350.9	4979.8	4914.3	4729.5	4707.7	4700.4	4937.6	5947.5
40°	6132.3	6117.8	5972.3	5844.2	5569.2	5509.5	5346.5	5327.6	5272.3	5473.1	6584.9
42.5°	6567.4	6529.6	6318.6	6258.9	6184.7	6135.2	6037.7	6040.7	5918.4	6077.0	7260.1
45°	6922.5	6900.7	6683.9	6648.9	6729.0	6708.6	6793.0	6814.8	6577.6	6710.1	7961.6
47.5°	7303.8	7283.4	7100.1	7075.3	7292.2	7298.0	7596.3	7603.6	7220.8	7367.8	8664.4
50°	7773.8	7744.7	7562.8	7593.4	7836.4	7858.2	8403.9	8354.5	7813.1	8035.8	9361.5
52.5°	8083.8	8101.3	8062.0	8111.4	8443.2	8463.6	9198.5	9071.9	8399.6	8695.0	10045.4
55°	8312.3	8347.2	8469.4	8582.9	9083.5	9103.9	9947.9	9754.4	8885.6	9306.2	10688.7
57.5°	8606.2	8556.7	8785.2	9006.4	9691.8	9745.7	10677.0	10412.2	9316.4	9833.0	11129.6
60°	9028.2	8993.3	9170.9	9498.3	10372.9	10458.7	11448.3	11004.4	9632.2	10250.6	11215.4
62.5°	9883.9	9796.6	9824.2	10113.8	11231.5	11345.0	12318.5	11521.0	9789.3	10413.6	10755.6
65°	11163.1	11013.2	10873.5	11074.3	12440.8	12552.8	13300.8	11927.1	9731.1	10097.8	9534.7
67.5°	12774.0	12625.6	12453.8	12643.0	14222.0	14310.7	14513.0	12155.5	9272.7	8881.3	7376.6
70°	14102.6	14047.3	14252.5	15031.1	17066.9	17069.8	16067.2	11966.3	8016.9	6296.8	4268.2
72.5°	13926.5	13893.1	14974.3	17381.3	20652.6	20575.5	17538.4	10534.4	5400.4	2840.6	1599.3
75°	11425.0	11641.8	13316.8	17339.1	21940.5	21930.3	16637.6	6697.0	2233.8	1177.3	826.6
77.5°	6126.5	6469.9	8645.5	12801.6	17128.0	17385.6	11697.1	2342.9	959.0	753.8	571.9
80°	1998.0	2297.8	3446.0	6518.0	11129.6	11081.6	5013.3	919.7	656.3	534.1	395.8
82.5°	848.4	883.3	1539.6	3077.8	5711.8	5623.0	1596.4	528.2	461.3	365.3	244.5
85°	331.8	371.1	679.6	1423.2	2473.9	2420.0	576.3	261.9	295.4	238.7	145.5
87.5°	109.1	132.4	243.0	487.5	769.8	742.2	141.2	90.2	128.1	109.1	52.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3587.1	3587.1	3587.1	3587.1	3587.1	3587.1	3587.1	3587.1	3587.1	3587.1	3587.1
2.5°	3617.7	3641.0	3668.6	3709.4	3744.3	3773.4	3804.0	3822.9	3830.2	3852.0	3850.5
5°	3643.9	3694.8	3763.2	3830.2	3895.6	3934.9	3969.9	3987.3	4003.3	4015.0	4017.9
7.5°	3687.5	3753.0	3860.7	3948.0	4003.3	4035.3	4058.6	4052.8	4058.6	4061.5	4065.9
10°	3725.4	3817.1	3945.1	4028.1	4070.3	4071.7	4065.9	4045.5	4035.3	4036.8	4039.7
12.5°	3770.5	3872.4	4010.6	4080.5	4092.1	4060.1	4035.3	4000.4	3987.3	3981.5	3978.6
15°	3831.6	3948.0	4081.9	4108.1	4079.0	4038.3	3996.1	3939.3	3910.2	3886.9	3894.2
17.5°	3905.8	4033.9	4137.2	4118.3	4055.7	3988.8	3920.4	3834.5	3774.9	3750.1	3751.6
20°	4009.2	4124.1	4179.4	4096.5	4001.9	3900.0	3783.6	3678.8	3623.5	3598.8	3595.9
22.5°	4134.3	4244.9	4220.2	4058.6	3924.8	3761.8	3616.2	3539.1	3511.5	3494.0	3496.9
25°	4284.2	4378.8	4249.3	4003.3	3798.1	3578.4	3466.4	3441.6	3428.5	3415.4	3415.4
27.5°	4479.2	4530.1	4271.1	3921.8	3600.2	3383.4	3342.7	3347.0	3342.7	3320.8	3325.2
30°	4736.8	4726.6	4291.5	3789.4	3373.2	3207.3	3210.2	3229.2	3232.1	3217.5	3224.8
32.5°	5075.8	4972.5	4301.7	3617.7	3156.4	3053.1	3056.0	3076.4	3090.9	3066.2	3077.8
35°	5486.2	5259.2	4285.6	3402.3	2989.0	2906.1	2884.3	2890.1	2894.4	2871.2	2887.2
37.5°	5965.0	5580.8	4214.3	3163.7	2850.8	2762.0	2715.5	2676.2	2652.9	2631.1	2645.6
40°	6490.3	5931.5	4083.4	2930.8	2696.5	2609.2	2539.4	2465.2	2386.6	2357.5	2370.6
42.5°	7040.4	6292.4	3924.8	2708.2	2519.0	2447.7	2373.5	2265.8	2147.9	2088.3	2095.5
45°	7610.8	6662.0	3769.0	2488.4	2337.1	2306.5	2220.7	2091.2	1963.1	1887.4	1881.6
47.5°	8169.7	7011.3	3540.6	2267.2	2166.8	2200.3	2133.4	2014.0	1871.4	1752.1	1739.0
50°	8703.7	7338.7	3166.6	2043.1	2028.6	2168.3	2104.3	1932.5	1769.6	1616.8	1603.7
52.5°	9233.4	7603.6	2687.8	1839.4	1954.4	2159.6	2066.4	1877.2	1677.9	1517.8	1500.3
55°	9683.1	7740.4	2226.5	1664.8	1846.7	2085.3	2021.3	1811.8	1548.4	1378.1	1363.5
57.5°	9939.2	7629.8	1842.3	1493.1	1698.3	1963.1	1944.2	1672.1	1394.1	1263.1	1245.7
60°	9828.6	7181.6	1528.0	1343.2	1557.1	1830.7	1810.3	1533.8	1276.2	1152.5	1135.1
62.5°	9218.9	6327.3	1279.1	1212.2	1429.0	1695.3	1676.4	1427.6	1186.0	1066.7	1047.8
65°	7990.7	5147.1	1085.6	1103.1	1299.5	1532.4	1560.0	1338.8	1114.7	998.3	979.4
67.5°	6094.5	3728.3	934.3	1008.5	1172.9	1372.3	1452.3	1274.8	1055.0	944.4	927.0
70°	3473.6	2117.4	806.2	916.8	1060.9	1223.8	1369.4	1223.8	991.0	899.3	887.7
72.5°	1317.0	972.1	697.1	825.1	953.2	1098.7	1277.7	1143.8	916.8	848.4	836.8
75°	702.9	592.3	586.5	717.4	829.5	976.5	1162.7	1065.2	861.5	896.4	925.5
77.5°	478.8	419.1	490.4	614.1	694.1	841.1	1040.5	945.9	746.5	743.6	685.4
80°	331.8	296.9	398.7	494.8	537.0	707.2	908.1	812.0	608.3	567.5	542.8
82.5°	199.4	193.5	298.3	369.6	379.8	545.7	752.4	681.0	497.7	433.7	436.6
85°	109.1	115.0	190.6	216.8	221.2	381.3	589.4	526.8	382.7	321.6	324.5
87.5°	30.6	39.3	69.9	85.9	106.2	197.9	350.7	312.9	192.1	133.9	133.9
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)