

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: P970280

Luminaire Tested: **NAV-SB6B-722-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970280  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6B-722-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28932.7 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

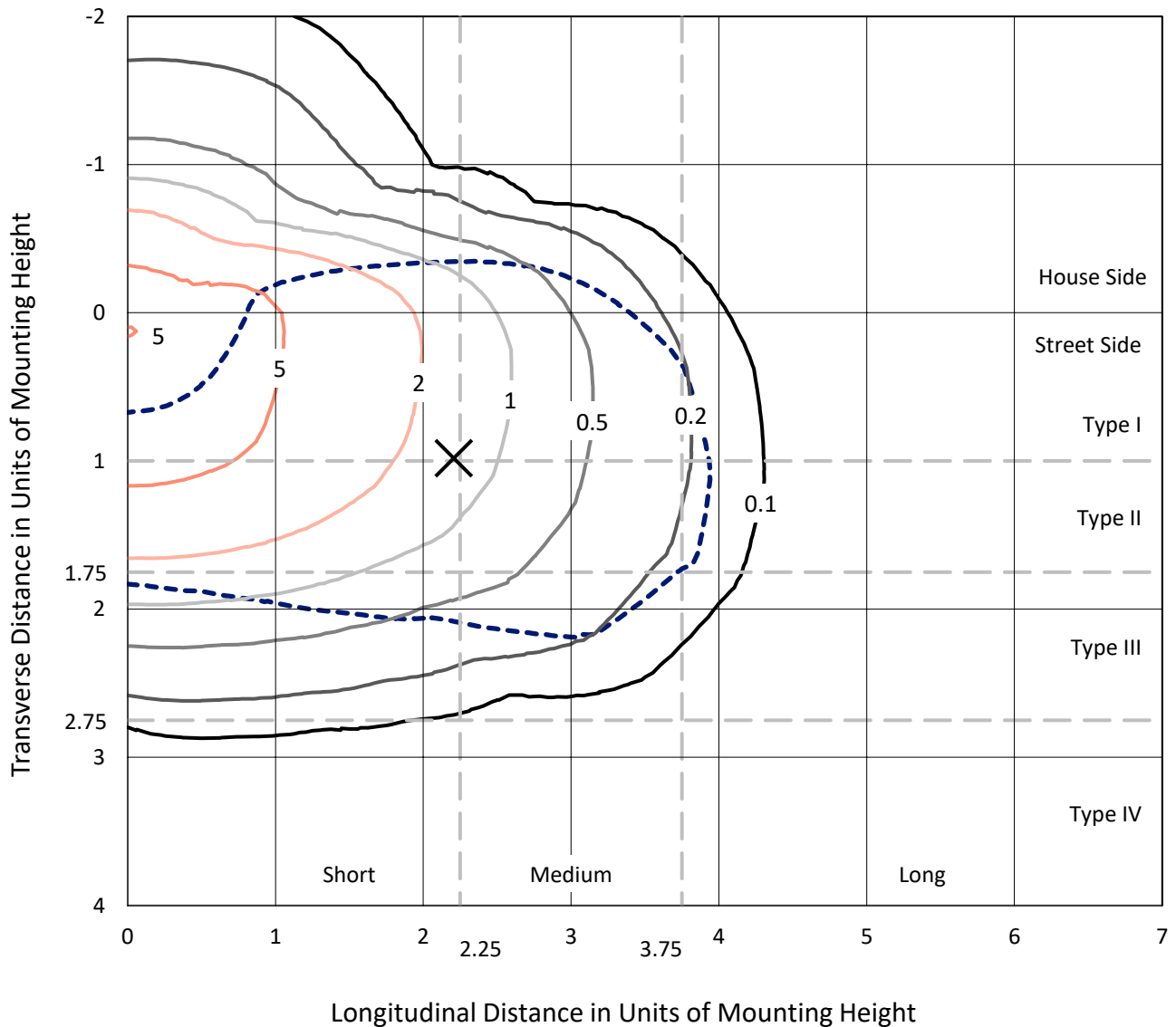
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

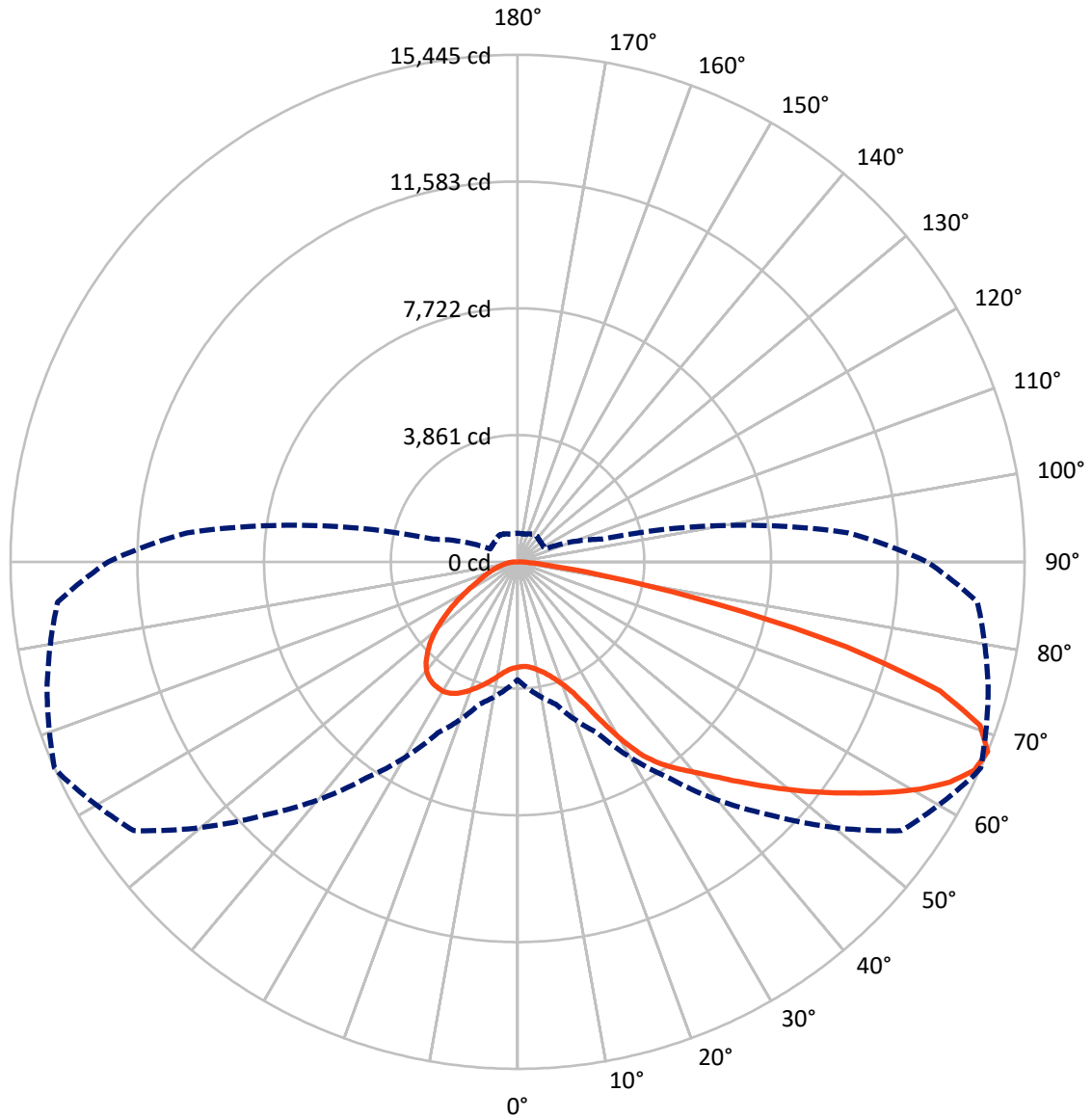
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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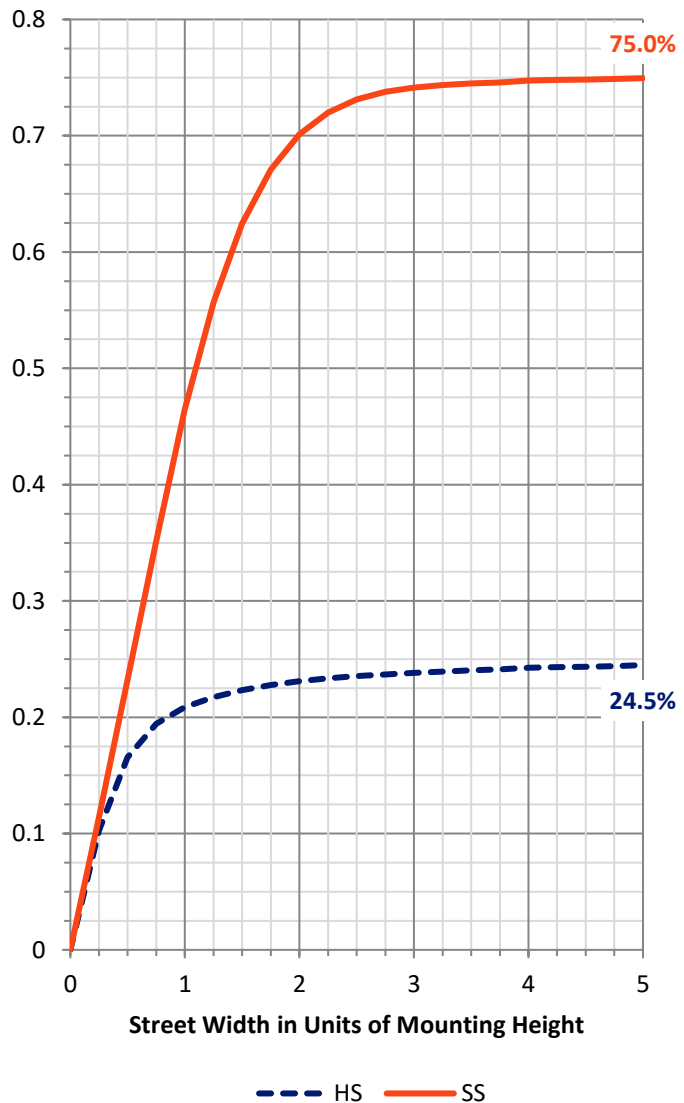
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7194.0	0.0	7194.0
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	21738.6	0.0	21738.6
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	28932.7	0.0	28932.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.2	1.1
10°-20°	1051.2	3.6
20°-30°	2026.1	7.0
30°-40°	3552.4	12.3
40°-50°	5281.3	18.3
50°-60°	6694.6	23.1
60°-70°	6550.4	22.6
70°-80°	3124.6	10.8
80°-90°	333.9	1.2
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°	28932.7	100.0
0°-180°	28932.7	100.0

**Coefficient of Utilization**



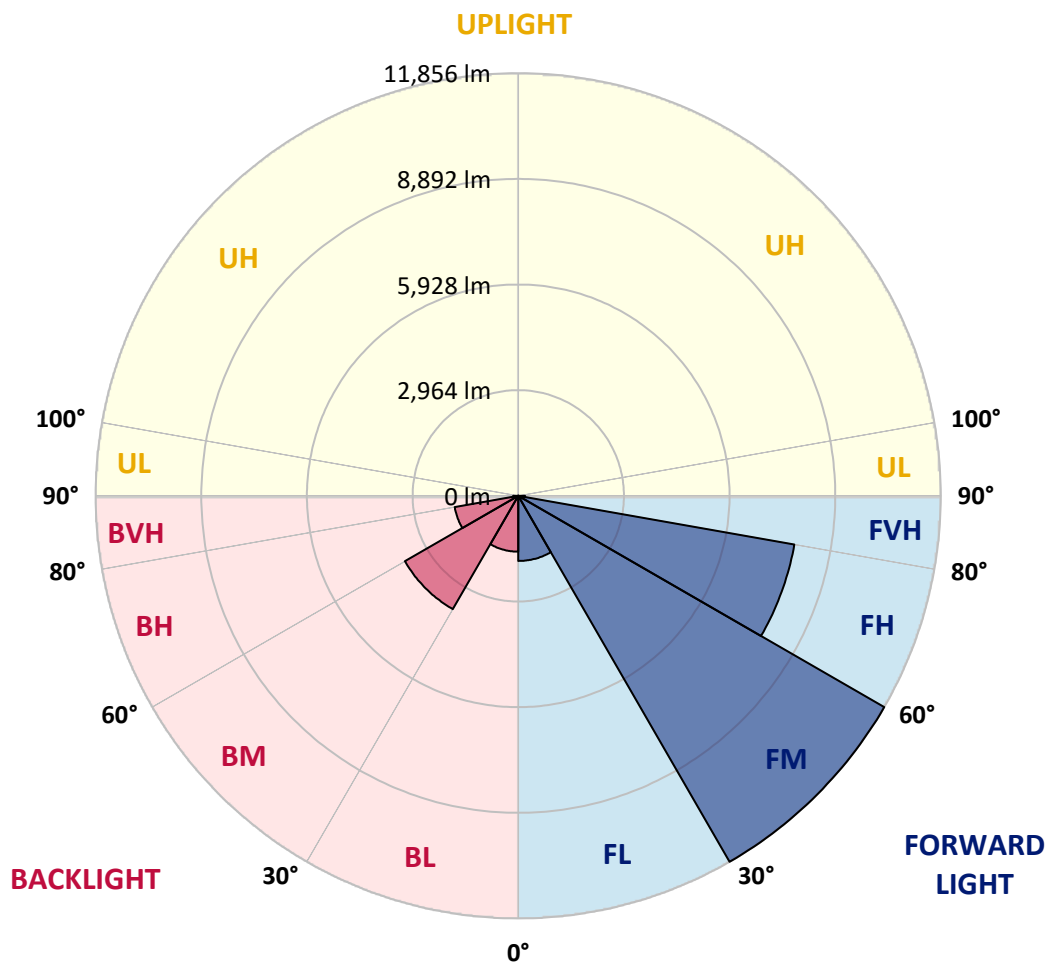
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1828.3	6.3			
FM (30°-60°)	11856.4	41.0			
FH (60°-80°)	7864.7	27.2			G4/12000
FVH (80°-90°)	189.3	0.7			G2/225
BL (0°-30°)	1567.1	5.4	B3/2500		
BM (30°-60°)	3671.9	12.7	B3/5000		
BH (60°-80°)	1810.4	6.3	B3/2500		G3/2500
BVH (80°-90°)	144.6	0.5			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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3209.0	3209.0	3209.0	3209.0	3209.0	3209.0	3209.0	3209.0	3209.0	3209.0	3209.0
2.5°	3175.6	3193.8	3189.3	3181.7	3180.2	3183.1	3187.7	3192.3	3190.8	3198.4	3210.5
5°	3166.4	3184.7	3183.1	3183.1	3189.3	3201.4	3209.0	3216.7	3209.0	3218.1	3234.9
7.5°	3172.6	3186.2	3192.3	3198.4	3213.6	3236.3	3254.6	3271.4	3262.3	3272.8	3294.1
10°	3250.1	3260.7	3266.8	3266.8	3277.4	3303.3	3321.5	3352.0	3344.3	3361.1	3388.3
12.5°	3391.4	3402.1	3402.1	3396.0	3403.6	3420.3	3426.4	3459.9	3446.2	3473.5	3500.9
15°	3564.7	3586.0	3569.3	3558.7	3561.7	3578.4	3576.8	3602.8	3589.0	3611.9	3636.2
17.5°	3756.3	3783.6	3756.3	3754.8	3748.6	3766.9	3768.4	3791.3	3766.9	3783.6	3800.4
20°	3982.7	4020.8	3998.0	4005.6	3991.9	3999.4	4007.1	4040.6	4002.5	4014.7	4010.1
22.5°	4302.0	4347.6	4323.2	4352.2	4343.0	4337.0	4335.4	4394.7	4335.4	4340.0	4295.9
25°	4767.2	4821.9	4779.4	4818.8	4818.8	4838.6	4861.4	4937.4	4838.6	4809.7	4695.7
27.5°	5454.2	5509.0	5425.4	5449.7	5442.1	5490.7	5466.4	5654.9	5548.5	5501.4	5271.9
30°	6281.2	6378.5	6220.4	6214.4	6206.7	6284.3	6319.2	6443.9	6335.9	6288.8	6012.1
32.5°	7175.1	7276.9	7088.4	7033.7	7004.8	7051.9	7023.1	7123.3	7048.9	6975.9	6633.9
35°	8120.6	8220.9	8041.5	7935.1	7819.6	7720.8	7617.4	7643.2	7573.3	7462.4	7108.2
37.5°	9014.5	9198.3	9008.3	8894.3	8681.5	8488.4	8199.6	8079.6	8014.2	7912.3	7555.1
40°	9925.0	10029.9	9885.5	9788.1	9557.1	9254.6	8792.4	8538.7	8450.5	8351.7	8049.1
42.5°	10595.4	10695.7	10618.2	10551.2	10370.4	10019.3	9421.8	9104.2	8976.4	8865.4	8608.6
45°	11127.4	11201.9	11153.2	11177.6	11100.0	10759.5	10074.0	9710.6	9578.4	9443.1	9240.9
47.5°	11341.7	11420.9	11498.3	11642.8	11775.0	11524.2	10774.8	10367.4	10227.6	10089.2	9890.0
50°	11317.4	11398.0	11623.0	11930.1	12340.5	12256.8	11513.5	11066.6	10937.4	10779.3	10595.4
52.5°	11122.9	11214.1	11502.9	12013.7	12667.4	12805.6	12266.0	11788.7	11667.1	11478.6	11294.7
55°	10612.1	10666.9	11100.0	11823.7	12744.8	13188.8	13003.3	12557.9	12436.2	12173.3	11972.6
57.5°	9665.0	9744.1	10374.9	11311.4	12550.3	13448.7	13650.8	13366.6	13249.6	12871.0	12661.2
60°	8429.2	8555.4	9277.4	10451.0	12054.7	13447.2	14239.2	14161.6	14064.3	13558.1	13339.2
62.5°	7030.7	7176.5	7871.3	9234.8	11188.2	13065.6	14607.1	14827.4	14777.3	14192.0	13912.3
65°	5399.5	5499.8	6191.5	7661.5	9839.9	12246.3	14649.6	15281.9	15291.1	14673.9	14211.8
67.5°	3595.1	3883.9	4484.4	5749.1	8033.9	10907.0	14275.7	15356.4	15444.6	14839.6	14061.3
70°	1754.3	2134.3	2722.6	3736.5	5749.1	8853.3	13298.1	14745.3	14941.4	14356.3	13164.4
72.5°	728.2	851.3	1172.0	1844.0	3300.2	5974.1	11334.1	13088.4	13451.7	12720.6	11068.2
75°	491.0	532.1	670.3	945.6	1503.4	2946.1	8173.8	9759.3	10344.5	9607.3	7853.0
77.5°	378.5	404.4	488.0	661.2	893.8	1114.3	4375.0	5881.4	6183.9	5724.8	4086.2
80°	298.0	317.8	364.8	481.9	633.9	595.9	1491.3	2664.8	2839.7	2382.1	1313.4
82.5°	258.4	266.0	261.5	326.9	421.1	348.1	489.4	983.5	1085.4	787.4	428.7
85°	187.0	208.3	217.4	202.1	223.4	176.3	200.7	348.1	383.0	342.0	241.7
87.5°	76.1	112.4	138.4	130.7	82.1	50.1	62.3	101.9	117.1	127.7	79.0
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°	3209.0	3209.0	3209.0	3209.0	3209.0	3209.0	3209.0	3209.0	3209.0	3209.0	3209.0
2.5°	3212.0	3222.7	3230.3	3239.4	3245.5	3254.6	3272.8	3283.5	3285.0	3292.6	3291.1
5°	3240.9	3256.1	3272.8	3297.2	3324.6	3347.3	3382.3	3406.6	3415.7	3423.4	3421.9
7.5°	3303.3	3324.6	3354.9	3397.5	3437.0	3467.5	3510.0	3538.9	3567.8	3578.4	3579.9
10°	3396.0	3426.4	3470.4	3528.3	3570.8	3610.4	3654.4	3678.7	3707.6	3719.8	3725.9
12.5°	3511.5	3543.4	3601.2	3681.8	3721.3	3748.6	3763.9	3757.8	3763.9	3774.5	3777.5
15°	3643.8	3678.7	3744.1	3830.7	3858.1	3833.8	3800.4	3770.0	3765.3	3768.4	3779.1
17.5°	3800.4	3826.2	3902.2	3975.2	3955.4	3855.0	3782.1	3733.5	3709.2	3701.6	3712.1
20°	4019.2	4019.2	4081.6	4127.2	3994.9	3824.7	3710.7	3631.6	3581.5	3560.1	3555.6
22.5°	4285.3	4260.9	4300.5	4268.5	3987.4	3739.5	3581.5	3444.6	3368.7	3338.2	3333.7
25°	4622.8	4593.8	4583.2	4385.6	3932.6	3604.2	3347.3	3181.7	3114.8	3098.1	3101.0
27.5°	5132.0	5059.0	4920.7	4449.4	3832.3	3391.4	3073.8	2920.2	2882.2	2883.7	2888.2
30°	5810.0	5664.0	5325.1	4460.1	3668.1	3090.5	2794.0	2684.6	2666.3	2673.9	2699.7
32.5°	6437.8	6299.4	5738.6	4411.5	3415.7	2795.6	2543.2	2470.2	2442.9	2452.0	2464.1
35°	6930.3	6892.3	6121.6	4343.0	3105.6	2518.8	2318.2	2255.9	2202.7	2190.5	2199.6
37.5°	7395.5	7380.3	6408.9	4247.3	2798.6	2322.8	2137.3	2055.2	1977.7	1935.1	1936.6
40°	7906.2	7891.1	6597.4	4099.8	2526.5	2152.5	1974.7	1866.7	1771.0	1693.4	1701.0
42.5°	8480.8	8391.2	6687.1	3888.5	2295.4	2008.1	1842.4	1696.5	1570.3	1498.9	1503.4
45°	9108.7	8906.5	6685.6	3619.5	2100.8	1875.9	1701.0	1494.3	1377.3	1310.4	1307.3
47.5°	9774.5	9399.0	6603.5	3321.5	1912.3	1729.9	1482.1	1324.0	1246.5	1205.5	1196.4
50°	10461.6	9859.7	6463.6	2979.5	1719.2	1564.3	1345.3	1237.4	1178.1	1140.1	1126.5
52.5°	11107.6	10277.7	6294.9	2591.8	1523.1	1403.1	1284.5	1200.9	1138.6	1096.0	1077.8
55°	11708.2	10638.0	6056.2	2195.0	1363.6	1295.2	1255.6	1185.7	1114.3	1064.1	1044.4
57.5°	12241.7	10872.1	5644.3	1822.7	1249.6	1220.7	1225.2	1159.9	1077.8	1035.2	1007.9
60°	12685.6	11043.9	5034.7	1477.5	1156.8	1147.7	1178.1	1111.2	1015.5	966.8	945.6
62.5°	12951.6	11040.8	4286.8	1210.0	1077.8	1080.9	1115.8	1050.4	953.1	907.5	893.8
65°	12928.8	10770.2	3465.9	1035.2	1001.7	1004.8	1050.4	983.5	901.5	874.1	872.6
67.5°	12471.3	10110.5	2658.7	921.2	918.2	931.8	985.0	938.0	869.5	866.4	871.0
70°	11232.4	8740.8	1915.4	830.0	831.5	851.3	921.2	909.1	852.8	858.8	857.3
72.5°	9006.9	6664.3	1286.1	734.2	735.7	767.6	860.4	886.2	836.1	916.7	928.9
75°	5998.5	4156.1	827.0	632.4	633.9	675.0	807.2	842.1	790.5	913.6	921.2
77.5°	2882.2	1868.3	598.9	532.1	532.1	570.0	697.7	754.0	673.4	709.9	650.7
80°	995.7	702.3	471.2	428.7	419.5	445.4	588.2	653.6	580.7	535.0	501.6
82.5°	392.2	364.8	378.5	332.9	302.5	319.2	457.6	539.7	427.1	386.1	384.6
85°	225.0	237.2	267.5	220.4	174.9	196.1	336.0	387.7	322.3	284.2	290.4
87.5°	60.8	83.6	123.1	114.0	79.0	83.6	159.6	214.3	185.4	142.9	147.5
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)