

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: P970278

Luminaire Tested: **NAV-SB6B-722-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970278  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6B-722-U-T3R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24072.1 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

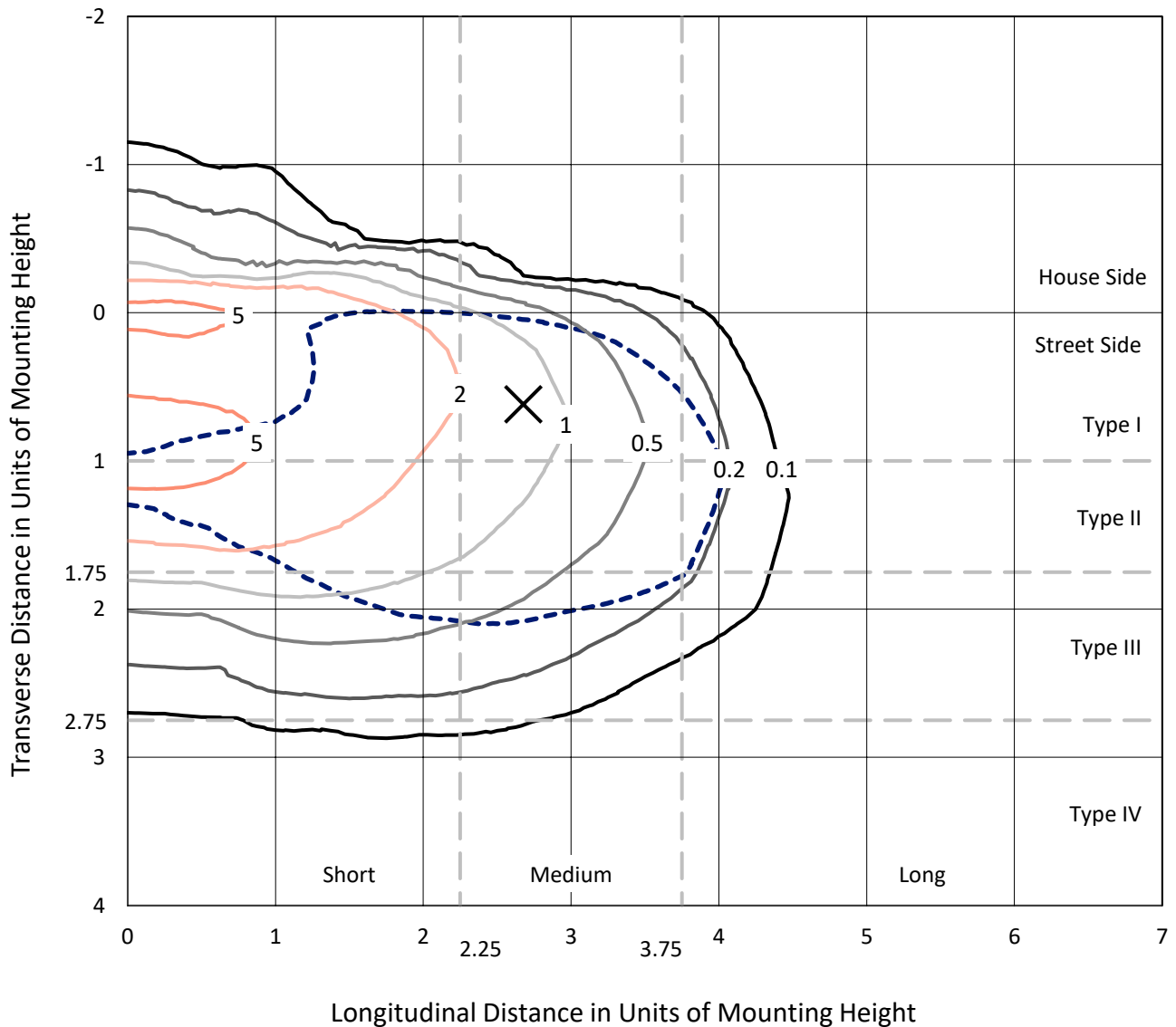
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

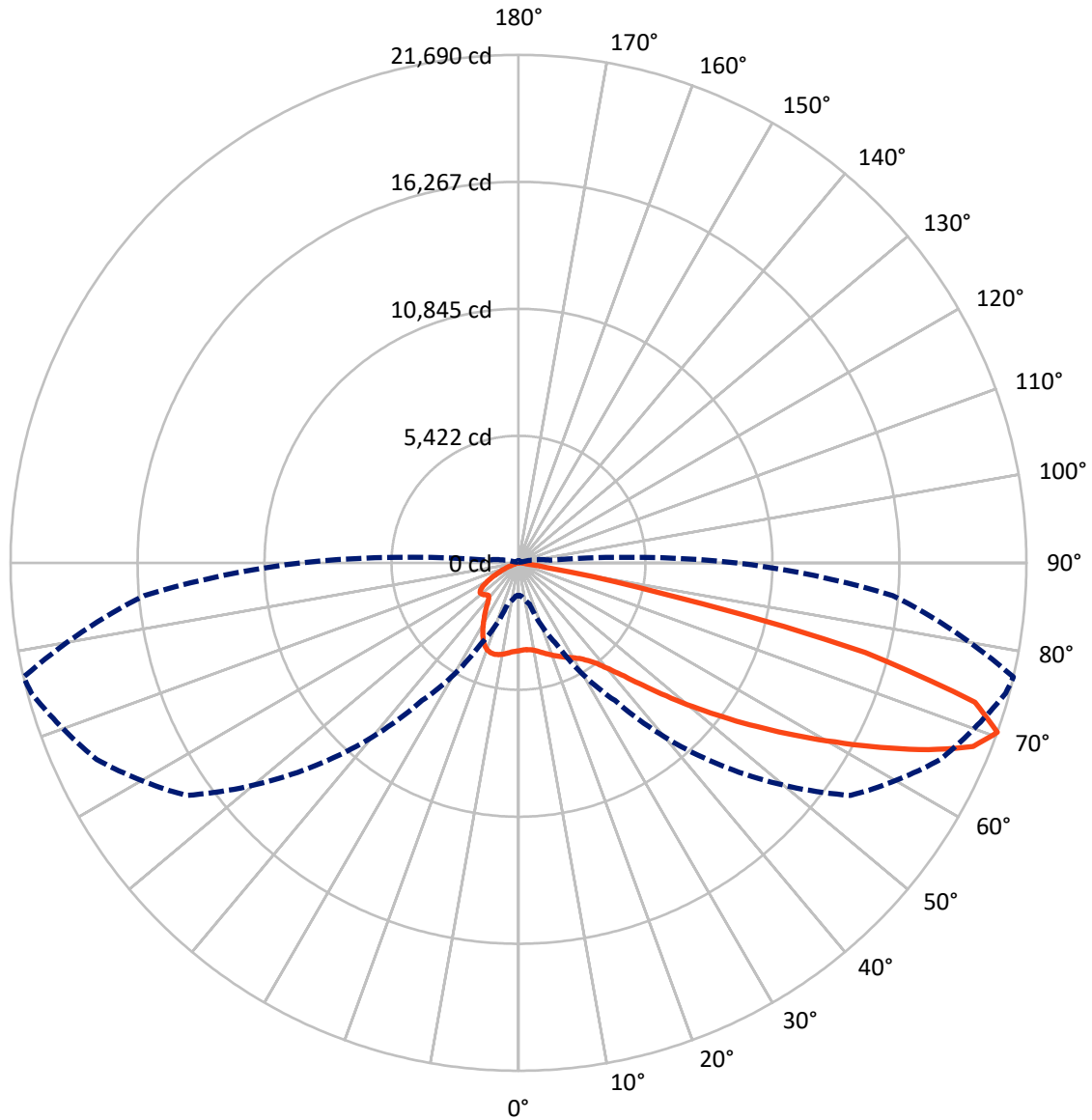
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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

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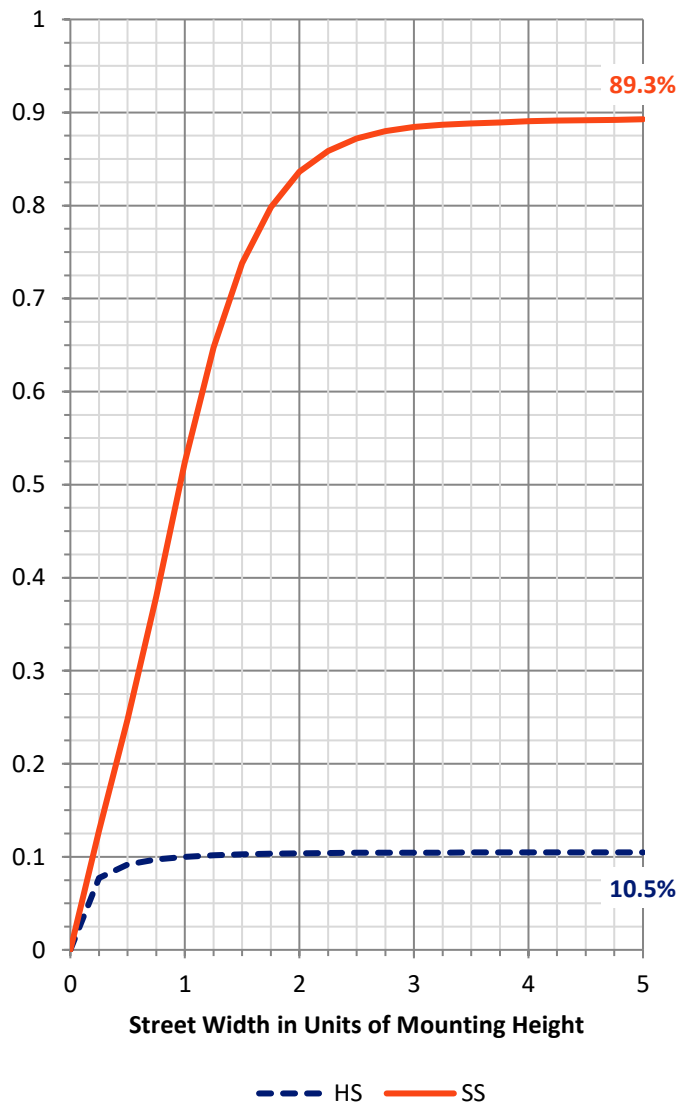
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2537.6	0.0	2537.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	21534.6	0.0	21534.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	24072.1	0.0	24072.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.6	1.3
10°-20°	768.2	3.2
20°-30°	1188.2	4.9
30°-40°	2156.0	9.0
40°-50°	4069.8	16.9
50°-60°	5880.5	24.4
60°-70°	6259.7	26.0
70°-80°	3317.2	13.8
80°-90°	108.9	0.5
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°	24072.1	100.0
0°-180°	24072.1	100.0

**Coefficient of Utilization**

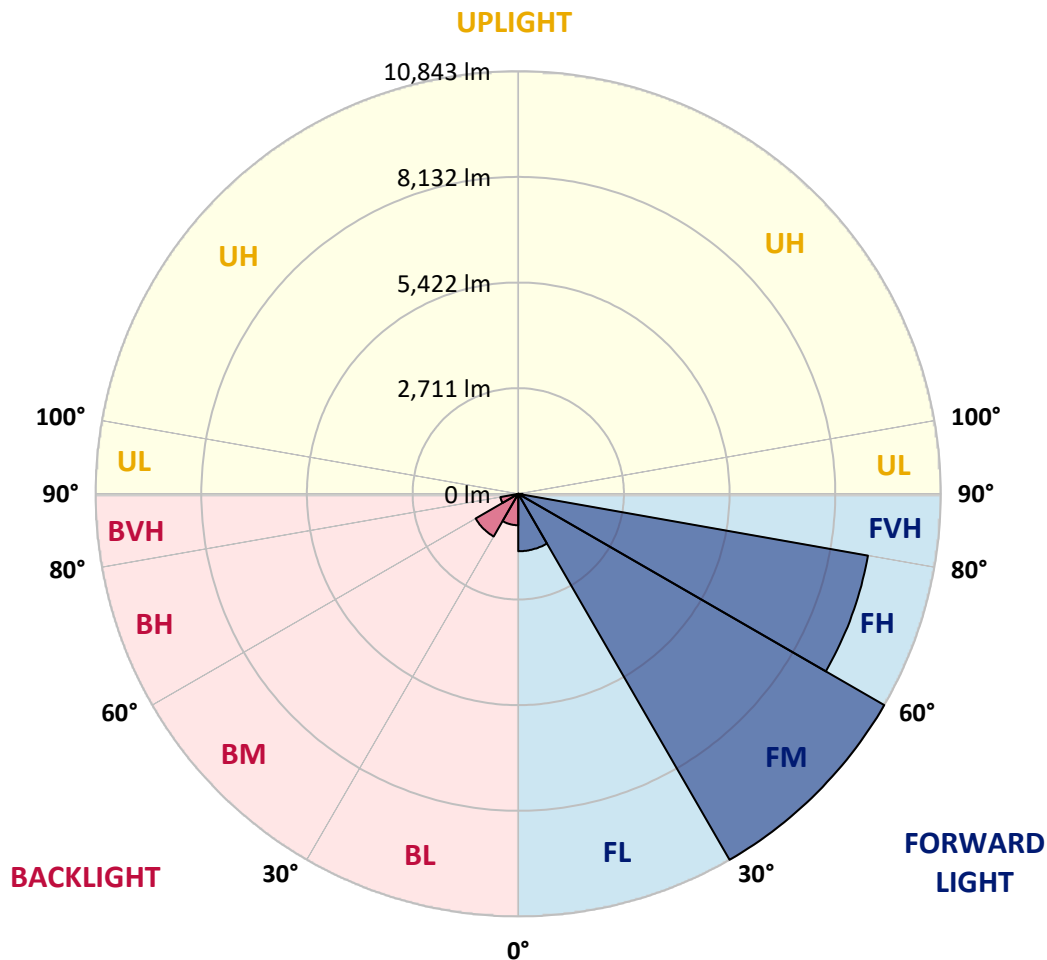


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1473.8	6.1			
FM (30°-60°)	10843.2	45.0			
FH (60°-80°)	9111.6	37.9			G4/12000
FVH (80°-90°)	106.0	0.4			G2/225
BL (0°-30°)	806.2	3.3	B2/1000		
BM (30°-60°)	1263.2	5.2	B2/2500		
BH (60°-80°)	465.2	1.9	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8
2.5°	3525.3	3557.2	3552.6	3573.9	3581.6	3611.9	3642.3	3683.3	3729.0	3727.4	3757.9
5°	3326.1	3358.0	3365.7	3394.5	3431.0	3478.1	3540.5	3622.6	3707.7	3721.4	3782.1
7.5°	3090.5	3124.0	3143.7	3201.5	3268.3	3365.7	3467.5	3587.6	3729.0	3748.7	3865.8
10°	2854.8	2885.3	2911.1	2993.2	3099.6	3244.0	3409.8	3583.0	3773.0	3801.9	3967.7
12.5°	2709.0	2737.8	2766.7	2838.1	2970.4	3146.7	3371.7	3604.3	3846.0	3887.1	4105.9
15°	2657.2	2683.1	2705.9	2769.8	2892.9	3093.6	3364.2	3648.4	3938.8	3993.5	4273.2
17.5°	2664.9	2678.5	2693.7	2742.4	2862.5	3069.3	3377.8	3724.4	4048.2	4096.8	4440.4
20°	2709.0	2716.6	2718.1	2751.5	2857.9	3066.2	3405.2	3797.4	4151.6	4217.0	4606.1
22.5°	2765.1	2768.2	2765.1	2788.0	2886.8	3088.9	3441.6	3885.6	4267.1	4328.0	4773.3
25°	3028.2	2970.4	2897.5	2853.4	2935.4	3133.1	3496.4	4004.2	4393.3	4452.6	4936.0
27.5°	3844.5	3678.8	3417.4	3124.0	3035.7	3196.9	3572.4	4124.2	4521.0	4574.2	5110.9
30°	5170.1	4952.7	4508.8	3847.5	3358.0	3330.7	3671.2	4244.3	4656.3	4714.1	5297.8
32.5°	6498.7	6445.5	5933.2	5018.1	4083.2	3628.6	3835.3	4407.0	4835.6	4881.3	5550.2
35°	7842.6	7734.6	7315.0	6410.6	5200.5	4235.2	4109.0	4619.8	5071.3	5123.0	5918.0
37.5°	8871.7	8806.3	8546.3	7801.5	6526.1	5171.6	4577.2	4949.6	5413.3	5471.0	6389.2
40°	9780.8	9750.3	9662.2	9171.2	8008.2	6396.8	5305.4	5460.5	5887.6	5956.1	6966.9
42.5°	10495.3	10566.7	10616.8	10480.0	9536.0	7795.4	6284.4	6178.0	6548.9	6618.8	7702.7
45°	11226.4	11250.8	11452.9	11650.6	11053.2	9257.8	7388.0	7018.6	7371.3	7457.9	8584.4
47.5°	11696.2	11793.4	12149.2	12497.3	12328.6	10708.1	8573.7	8011.3	8324.4	8487.1	9572.5
50°	11731.1	11915.1	12404.6	13011.1	13257.4	12088.3	9862.9	9142.3	9475.2	9654.6	10627.5
52.5°	11148.9	11434.7	12193.3	13081.0	13759.1	13257.4	11196.1	10273.3	10700.5	10934.6	11722.0
55°	8547.9	8921.9	11398.2	12701.0	13778.8	14143.7	12494.2	11451.4	12065.6	12330.1	12904.7
57.5°	7447.3	7635.8	8961.4	12041.3	13412.4	14500.9	13667.9	12573.3	13550.8	13879.1	14022.0
60°	6196.2	6444.0	7515.7	10962.0	12915.3	14535.8	14704.5	14020.6	15160.7	15530.1	15046.6
62.5°	4210.9	4480.0	5545.6	9107.3	12235.8	14519.1	15554.4	15510.3	16949.9	17346.7	15914.7
65°	2608.6	2777.3	3479.7	7436.7	11285.8	14537.4	16443.7	17319.3	18838.0	19240.8	16586.6
67.5°	2061.4	2138.9	2505.2	5709.8	9648.5	14127.0	17331.4	19020.3	20615.0	20934.3	16791.8
70°	1384.9	1432.0	1822.7	3827.8	7178.3	12232.8	17314.7	19874.6	21530.1	21689.7	16043.8
72.5°	729.7	766.2	1065.6	1772.5	4335.5	8695.4	14595.2	18853.1	20619.6	20379.4	13713.5
75°	364.8	425.7	717.5	900.0	1851.6	4849.4	9063.3	14864.2	16229.3	15298.9	8798.7
77.5°	276.6	334.5	592.9	592.9	644.5	1632.6	3838.4	8107.0	7477.7	6226.6	2582.8
80°	176.3	228.1	518.3	448.4	269.1	415.0	1000.3	2271.1	1588.5	1208.6	469.8
82.5°	103.4	148.9	431.7	296.4	150.5	153.5	282.8	483.4	411.9	320.7	144.4
85°	41.0	97.3	296.4	117.1	59.2	38.0	85.2	103.4	85.2	63.9	36.5
87.5°	0.0	22.8	51.7	0.0	4.5	3.1	6.0	7.6	7.6	6.0	12.2
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°	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8	3754.8
2.5°	3771.5	3774.6	3783.7	3785.2	3763.9	3736.5	3726.0	3721.4	3703.1	3701.6	3704.7
5°	3817.1	3830.8	3817.1	3777.6	3683.3	3551.1	3450.8	3368.7	3294.2	3271.4	3257.8
7.5°	3908.3	3922.1	3881.0	3726.0	3488.8	3225.8	2988.7	2821.4	2670.9	2614.7	2591.9
10°	4039.1	4057.4	3928.1	3615.0	3195.4	2772.8	2371.4	2088.7	1868.3	1778.6	1740.6
12.5°	4203.2	4210.9	3953.9	3446.3	2813.8	2210.3	1641.7	1339.3	1143.2	1070.2	1047.4
15°	4384.1	4373.6	3957.0	3216.7	2294.0	1562.7	1071.7	880.2	801.1	776.8	776.8
17.5°	4574.2	4530.1	3896.2	2885.3	1723.8	1068.7	795.1	749.5	735.7	729.7	728.2
20°	4761.1	4662.3	3785.2	2452.0	1237.4	798.1	722.1	708.4	700.8	697.7	694.7
22.5°	4931.4	4762.7	3595.2	1948.8	898.4	705.4	682.5	670.3	656.7	650.7	649.1
25°	5097.1	4820.5	3327.7	1479.1	719.0	659.8	641.5	618.7	600.4	592.9	589.8
27.5°	5258.2	4857.0	2993.2	1094.5	641.5	617.2	583.7	551.9	538.1	535.0	532.1
30°	5430.0	4869.1	2613.1	816.3	594.4	564.0	515.4	478.9	471.3	472.7	472.7
32.5°	5639.9	4887.3	2230.1	668.9	554.8	500.1	442.4	404.4	398.3	404.4	402.8
35°	5890.7	4923.8	1860.7	615.7	519.9	434.8	372.5	340.5	334.5	339.0	337.4
37.5°	6231.2	4983.1	1515.6	605.1	491.0	380.1	313.1	287.3	287.3	288.8	287.3
40°	6684.2	5141.2	1207.0	597.5	475.8	339.0	264.6	253.9	258.4	261.5	261.5
42.5°	7236.0	5477.2	998.8	588.3	459.1	320.7	240.2	235.6	243.2	246.3	246.3
45°	7854.7	5902.8	925.8	573.1	443.9	332.9	229.5	223.4	232.6	234.1	235.6
47.5°	8494.7	6319.3	916.7	556.4	428.7	351.2	226.5	212.8	223.4	225.0	226.5
50°	9142.3	6591.5	925.8	530.5	404.4	351.2	228.1	202.2	211.3	215.9	217.4
52.5°	9794.5	6716.1	919.7	474.3	361.8	329.8	228.1	193.1	202.2	205.2	205.2
55°	10426.8	6691.8	827.0	390.7	307.1	291.9	221.9	185.4	191.6	193.1	193.1
57.5°	10927.0	6352.7	655.2	304.0	249.3	243.2	202.2	176.3	180.9	179.4	179.4
60°	11188.5	5607.9	468.2	234.1	196.1	191.6	177.8	164.2	167.2	159.6	158.1
62.5°	11191.5	4622.9	313.1	185.4	156.6	152.0	152.0	147.5	144.4	129.3	124.6
65°	10952.8	3529.8	208.3	147.5	126.2	118.6	127.7	126.2	115.5	94.3	91.2
67.5°	10411.6	2313.7	158.1	115.5	97.3	92.8	101.9	106.4	98.8	79.0	77.5
70°	9298.9	1346.8	130.7	89.7	73.0	68.4	82.1	91.2	82.1	63.9	60.8
72.5°	7724.0	726.6	106.4	66.9	50.1	45.6	65.4	74.5	65.4	47.2	45.6
75°	5012.0	389.2	82.1	44.1	25.8	28.9	48.7	54.7	45.6	30.4	27.4
77.5°	1682.8	171.8	51.7	21.3	12.2	12.2	28.9	33.4	21.3	10.7	9.1
80°	375.5	71.4	21.3	9.1	4.5	4.5	6.0	6.0	3.1	0.0	0.0
82.5°	123.1	28.9	9.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.2	10.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)