

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: P970028

Luminaire Tested: **NAV-SB6A-835-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970028  
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-SB6A-835-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25625 lumens  
Efficiency: N/A  
Efficacy: 149.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

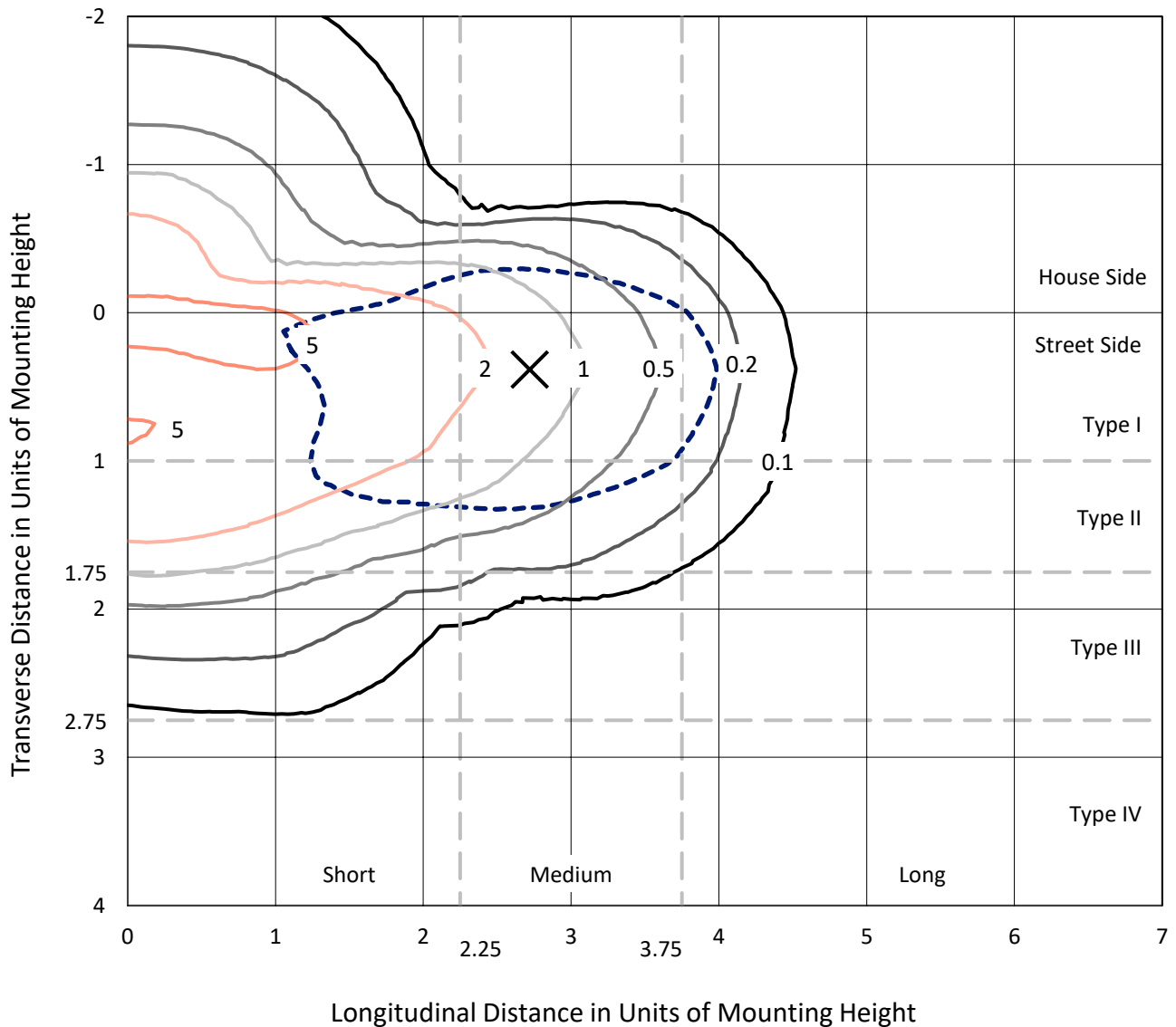
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

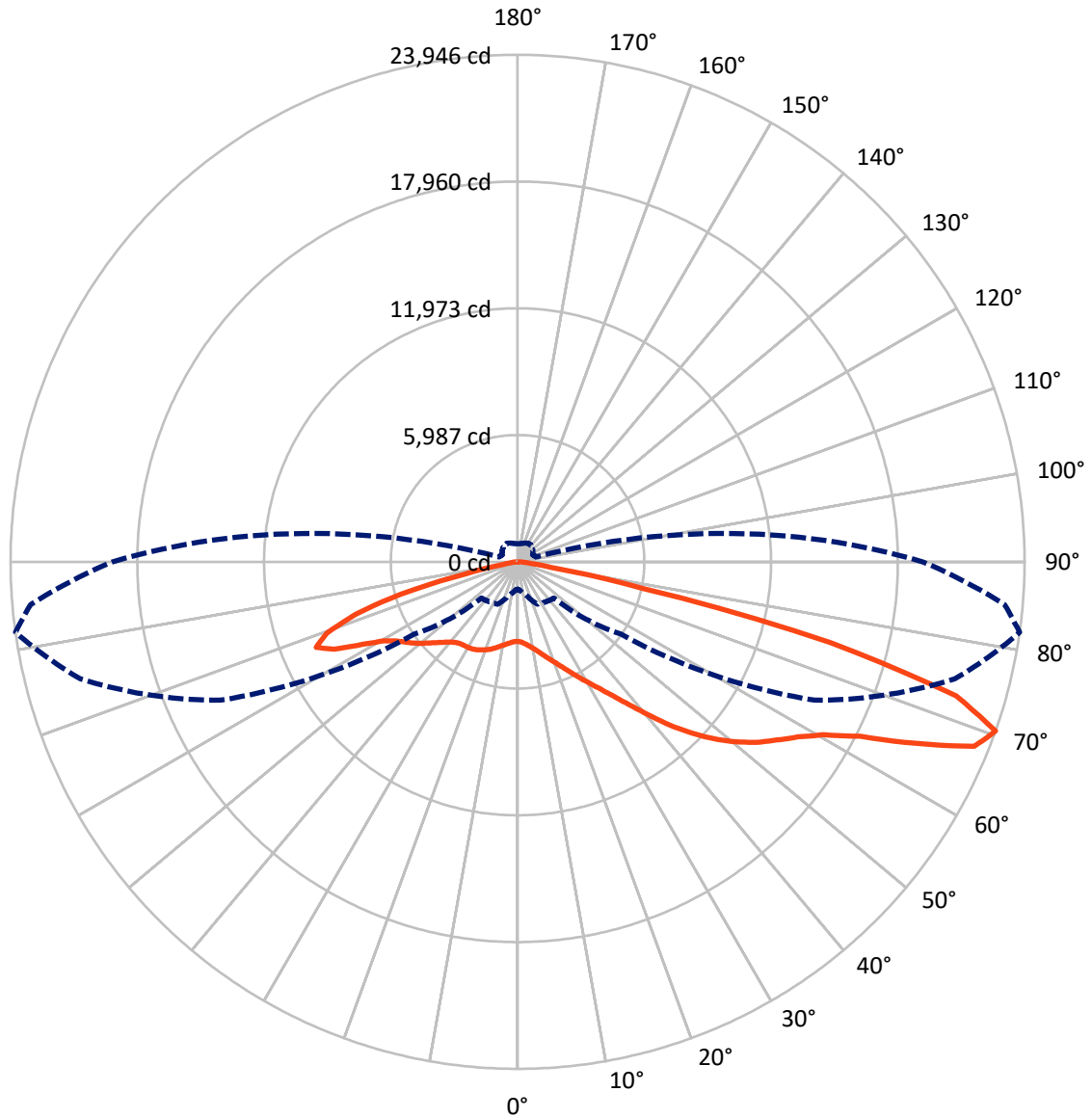
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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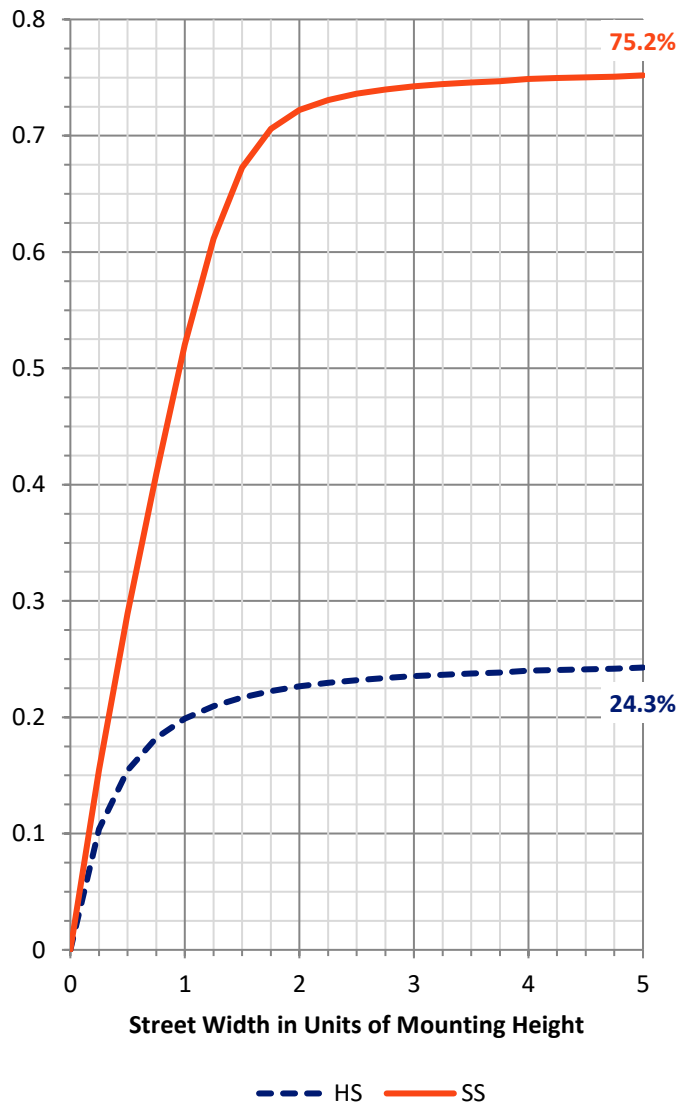
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6317.2	0.0	6317.2
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	19307.8	0.0	19307.8
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	25625.0	0.0	25625.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.7	1.4
10°-20°	1019.1	4.0
20°-30°	1704.9	6.7
30°-40°	2663.5	10.4
40°-50°	4242.0	16.6
50°-60°	5903.2	23.0
60°-70°	6175.0	24.1
70°-80°	3227.4	12.6
80°-90°	335.1	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°	25625.0	100.0
0°-180°	25625.0	100.0

**Coefficient of Utilization**

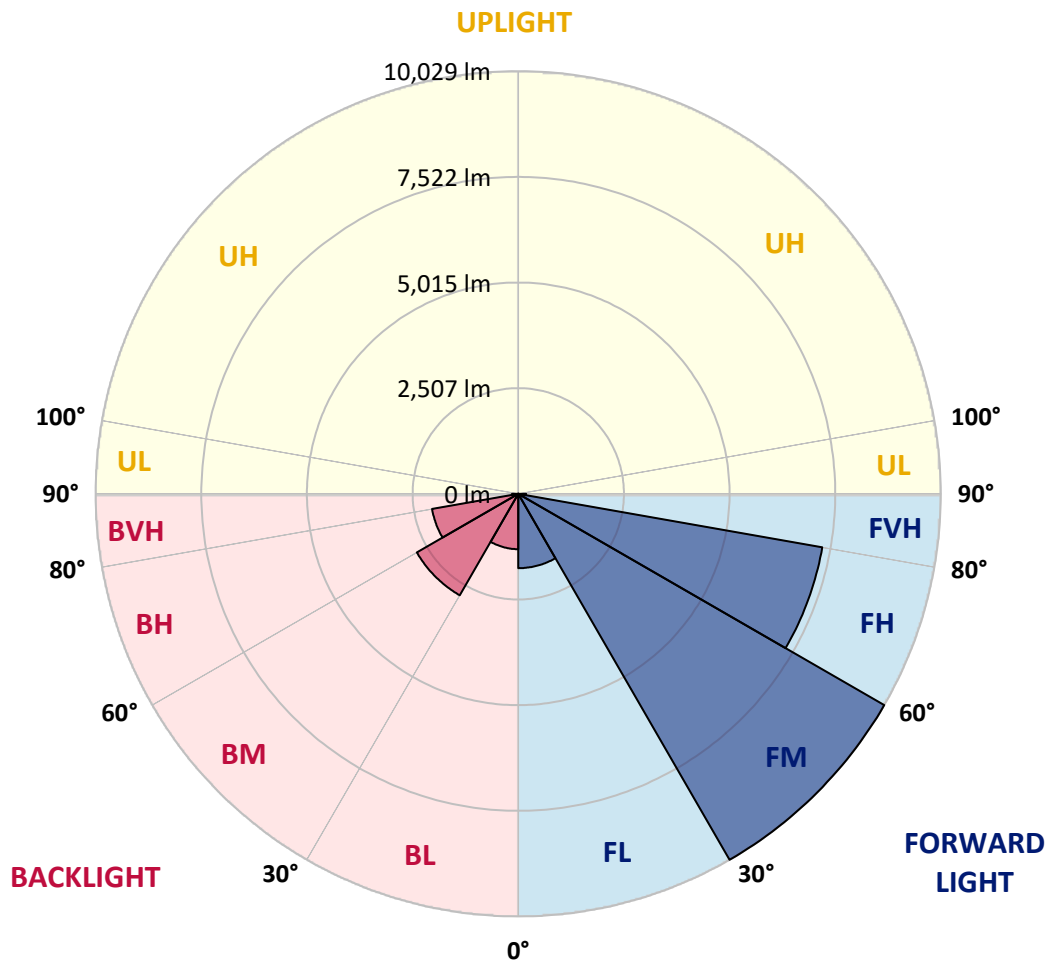


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1764.6	6.9			
FM (30°-60°)	10029.4	39.1			
FH (60°-80°)	7326.3	28.6			G3/7500
FVH (80°-90°)	187.6	0.7			G2/225
BL (0°-30°)	1314.2	5.1	B3/2500		
BM (30°-60°)	2779.3	10.8	B3/5000		
BH (60°-80°)	2076.2	8.1	B3/2500		G3/2500
BVH (80°-90°)	147.5	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°	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9
2.5°	3846.7	3868.5	3861.7	3854.8	3854.8	3845.3	3844.0	3830.3	3819.5	3801.8	3797.7
5°	3895.6	3918.8	3916.0	3921.4	3939.2	3943.3	3947.3	3939.2	3917.3	3895.6	3886.1
7.5°	3852.2	3878.0	3886.1	3918.8	3973.1	4022.1	4058.8	4073.8	4053.4	4022.1	4007.1
10°	3705.3	3733.9	3762.4	3839.9	3936.4	4052.0	4149.9	4208.3	4204.3	4174.4	4148.6
12.5°	3407.5	3437.4	3498.6	3649.5	3826.3	4030.3	4212.4	4334.8	4377.0	4355.2	4310.3
15°	3169.5	3195.3	3241.6	3396.6	3626.4	3936.4	4235.6	4473.5	4580.9	4568.7	4514.3
17.5°	3162.7	3173.6	3202.2	3275.6	3452.4	3789.6	4211.1	4609.5	4814.8	4813.5	4745.4
20°	3282.4	3286.5	3302.8	3317.7	3418.4	3678.1	4148.6	4722.4	5077.2	5077.2	5003.8
22.5°	3448.3	3445.5	3461.8	3448.3	3497.2	3668.6	4109.1	4821.6	5369.6	5391.3	5298.8
25°	3697.1	3683.5	3679.4	3648.2	3657.7	3756.9	4152.6	4934.5	5716.3	5761.2	5645.6
27.5°	4028.9	4007.1	3992.2	3920.1	3895.6	3939.2	4285.8	5070.5	6102.4	6180.0	6033.2
30°	4461.3	4421.8	4400.1	4275.0	4186.6	4193.4	4487.1	5251.3	6506.3	6631.4	6445.1
32.5°	5051.4	4990.2	4931.8	4726.5	4564.6	4511.6	4746.9	5501.5	6944.2	7144.0	6904.7
35°	5712.2	5663.3	5600.7	5284.0	5035.1	4912.7	5097.6	5850.9	7456.8	7773.6	7462.2
37.5°	6348.6	6306.4	6336.3	5909.4	5588.5	5410.4	5557.2	6320.0	8089.1	8556.8	8161.2
40°	7006.7	6974.1	6978.2	6570.2	6196.3	5996.5	6114.7	6908.8	8813.8	9488.2	9001.4
42.5°	7721.9	7697.4	7615.9	7254.2	6834.0	6647.7	6756.5	7588.7	9591.5	10548.8	9923.3
45°	8522.8	8507.8	8431.8	8017.0	7535.7	7326.3	7473.1	8339.3	10373.4	11546.8	10849.3
47.5°	9215.0	9227.2	9217.6	8868.2	8369.1	8061.8	8237.3	9122.5	11100.9	12485.1	11737.3
50°	9548.1	9611.9	9705.8	9597.0	9287.0	8974.3	9008.2	9878.4	11794.4	13364.9	12588.4
52.5°	9374.0	9495.0	9750.6	9924.7	10044.4	9979.1	9888.0	10629.0	12447.0	14158.9	13393.4
55°	8725.4	8895.4	9319.6	9739.8	10350.3	10824.8	10944.5	11461.2	13083.4	14857.8	14154.8
57.5°	7543.8	7819.8	8200.5	9050.3	10078.3	11234.1	12176.4	12615.6	13757.8	15604.3	14951.7
60°	5517.8	5887.6	6360.8	7625.4	9126.5	11015.2	13224.8	14388.7	14716.4	16571.1	15989.1
62.5°	3531.2	3759.7	4194.8	5385.9	7111.4	9893.4	13545.7	16605.1	16341.3	18156.5	17544.6
65°	2417.6	2564.4	2962.9	3631.9	4597.2	7364.3	12686.3	18266.6	18922.0	20669.3	20204.3
67.5°	1756.7	1868.3	2208.2	2794.3	2995.5	4358.0	9844.5	18190.6	21430.8	23258.3	22534.8
70°	1280.8	1359.8	1645.2	2208.2	2304.7	2424.4	5963.8	15462.9	21376.4	23946.3	23080.1
72.5°	949.0	1003.5	1195.3	1713.3	1865.6	1637.1	2952.0	11238.2	18368.6	21659.2	20964.4
75°	686.6	727.4	868.9	1310.8	1493.0	1246.9	1472.6	6567.5	12812.8	15235.8	15358.2
77.5°	524.9	556.2	648.6	960.0	1195.3	935.5	913.8	3021.3	6075.3	6105.2	6447.9
80°	421.5	441.9	492.2	675.8	916.5	700.3	595.5	1219.6	1919.9	1624.9	1705.1
82.5°	310.1	344.0	416.0	474.6	655.4	482.7	363.1	615.9	730.2	628.2	633.7
85°	176.8	199.9	251.5	339.9	418.8	295.1	208.1	273.3	339.9	278.7	248.9
87.5°	62.5	81.6	88.4	133.2	182.2	122.4	80.3	78.8	111.5	82.9	69.4
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°	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9
2.5°	3784.1	3777.3	3750.2	3713.5	3675.3	3638.6	3626.4	3600.6	3582.9	3573.4	3584.2
5°	3860.3	3838.5	3774.7	3693.1	3607.4	3514.9	3449.6	3389.8	3346.3	3305.5	3321.8
7.5°	3969.1	3931.0	3820.9	3678.1	3525.8	3372.1	3258.0	3170.9	3112.4	3074.4	3082.5
10°	4095.5	4037.1	3868.5	3654.9	3419.7	3199.4	3064.9	2990.0	2953.3	2932.9	2938.4
12.5°	4241.0	4158.1	3917.3	3602.0	3258.0	3006.3	2913.9	2892.1	2893.5	2894.9	2897.6
15°	4420.5	4304.9	3956.8	3486.3	3047.1	2858.1	2841.8	2877.2	2913.9	2931.6	2930.3
17.5°	4623.1	4459.9	3963.7	3296.0	2840.5	2763.0	2814.6	2890.8	2946.6	2971.1	2976.5
20°	4840.7	4617.6	3914.7	3026.7	2670.5	2685.5	2778.0	2875.8	2937.0	2968.3	2976.5
22.5°	5089.5	4786.2	3797.7	2743.9	2531.9	2601.1	2710.0	2805.1	2869.1	2900.3	2908.4
25°	5373.7	4975.2	3614.2	2506.0	2412.1	2506.0	2614.8	2693.6	2745.3	2773.9	2782.1
27.5°	5689.2	5172.5	3369.4	2317.0	2307.5	2408.1	2497.8	2559.0	2586.2	2608.0	2616.1
30°	6006.0	5351.9	3073.0	2174.2	2216.4	2311.6	2375.4	2402.6	2410.8	2414.9	2424.4
32.5°	6348.6	5506.9	2761.7	2055.9	2129.3	2217.7	2255.8	2268.0	2230.0	2204.2	2212.3
35°	6763.4	5672.8	2457.0	1962.1	2043.6	2119.8	2132.1	2121.1	2076.3	2023.2	2026.0
37.5°	7276.0	5879.5	2213.7	1895.4	1963.5	2013.8	1998.9	1996.1	2000.2	1937.7	1941.7
40°	7904.2	6148.7	2035.5	1843.8	1898.2	1909.1	1866.9	1890.0	1910.4	1815.3	1817.9
42.5°	8601.7	6473.7	1922.7	1808.4	1843.8	1817.9	1752.6	1778.6	1775.8	1650.8	1649.3
45°	9312.8	6827.2	1883.2	1782.6	1793.4	1741.8	1669.7	1676.6	1619.4	1506.5	1510.6
47.5°	10019.9	7206.6	1907.7	1760.8	1730.9	1672.5	1616.7	1586.8	1502.5	1418.2	1418.2
50°	10713.3	7605.0	1997.4	1717.4	1645.2	1611.3	1570.5	1517.5	1427.7	1355.7	1350.2
52.5°	11356.5	8006.1	2098.1	1645.2	1537.9	1558.2	1532.4	1471.2	1382.8	1309.4	1310.8
55°	11965.6	8407.3	2137.5	1546.0	1437.3	1512.0	1497.1	1384.2	1278.2	1218.3	1212.9
57.5°	12629.2	8889.9	2094.0	1419.5	1355.7	1459.0	1401.9	1276.7	1215.6	1170.8	1166.7
60°	13548.3	9647.3	2000.2	1263.2	1278.2	1380.2	1282.3	1230.5	1163.9	1113.7	1110.9
62.5°	15075.4	11060.1	1849.2	1108.2	1187.1	1263.2	1225.1	1173.4	1105.5	1056.5	1056.5
65°	17332.5	13023.5	1565.1	987.2	1085.1	1149.0	1163.9	1112.2	1041.6	989.8	992.6
67.5°	19236.2	14255.5	1184.3	886.5	980.4	1056.5	1098.7	1048.4	973.5	923.2	924.7
70°	19131.4	13360.8	904.3	787.3	888.0	965.4	1019.8	980.4	900.2	852.6	856.6
72.5°	16992.6	11177.0	731.5	686.6	794.1	870.2	935.5	905.6	824.0	777.8	777.8
75°	12483.7	7934.0	584.7	584.7	677.1	771.0	843.1	824.0	749.2	716.6	707.0
77.5°	5262.1	3328.6	458.3	485.4	562.9	662.2	751.9	758.7	693.5	734.2	666.2
80°	1399.1	917.8	349.4	382.1	441.9	546.6	654.1	651.3	580.6	542.5	504.5
82.5°	533.0	361.7	248.9	269.3	319.5	418.8	518.0	534.3	463.7	401.1	401.1
85°	205.3	155.0	153.6	161.8	186.2	277.4	391.7	405.2	349.4	296.4	306.0
87.5°	53.0	46.2	57.1	54.4	85.7	148.2	224.4	232.5	213.5	123.7	176.8
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)