

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: P964482

Luminaire Tested: **NAV-SB3C-722-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964482  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3C-722-U-T3R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19532.4 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

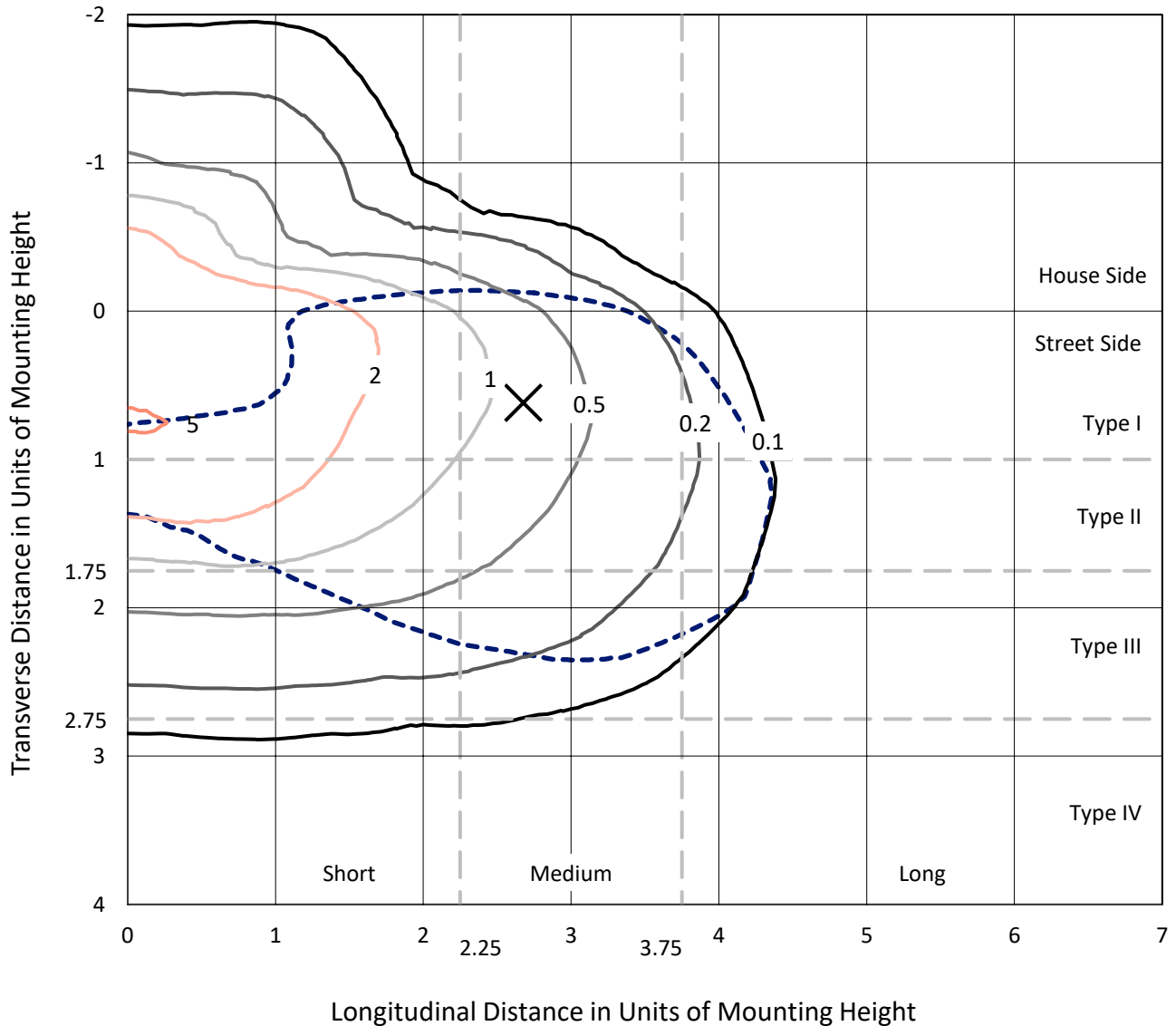
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

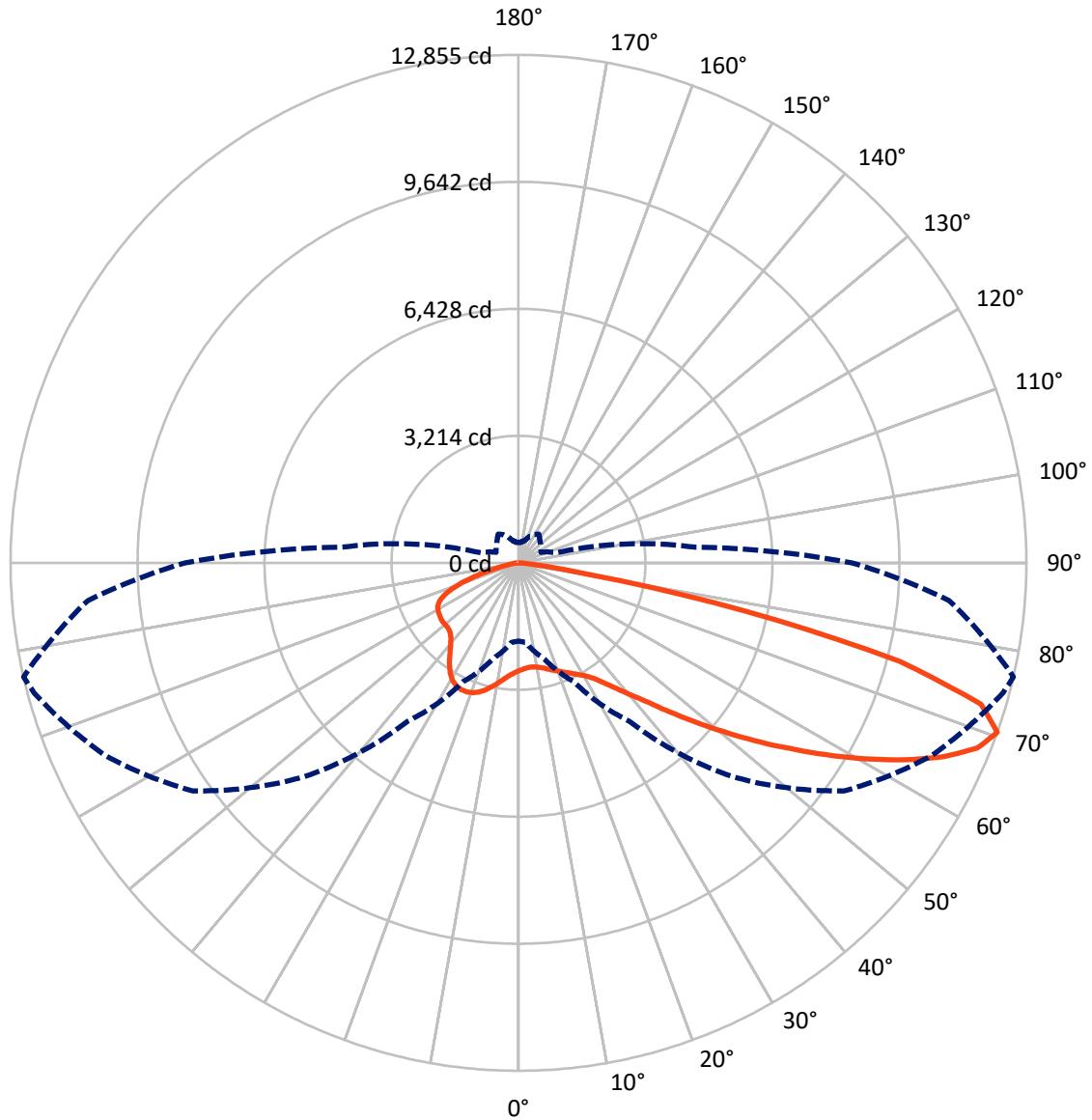
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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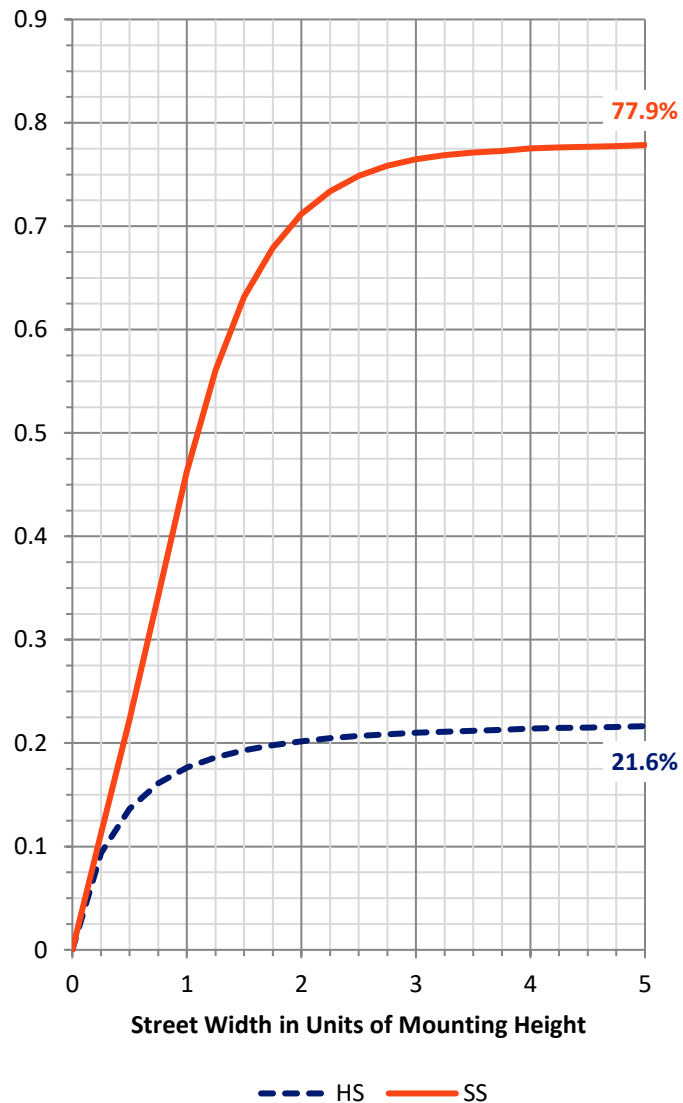
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4277.3	0.0	4277.3
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	15255.1	0.0	15255.1
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	19532.4	0.0	19532.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.9	1.3
10°-20°	750.1	3.8
20°-30°	1282.7	6.6
30°-40°	2062.7	10.6
40°-50°	3220.4	16.5
50°-60°	4301.8	22.0
60°-70°	4585.0	23.5
70°-80°	2822.5	14.5
80°-90°	247.3	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°	19532.4	100.0
0°-180°	19532.4	100.0

**Coefficient of Utilization**

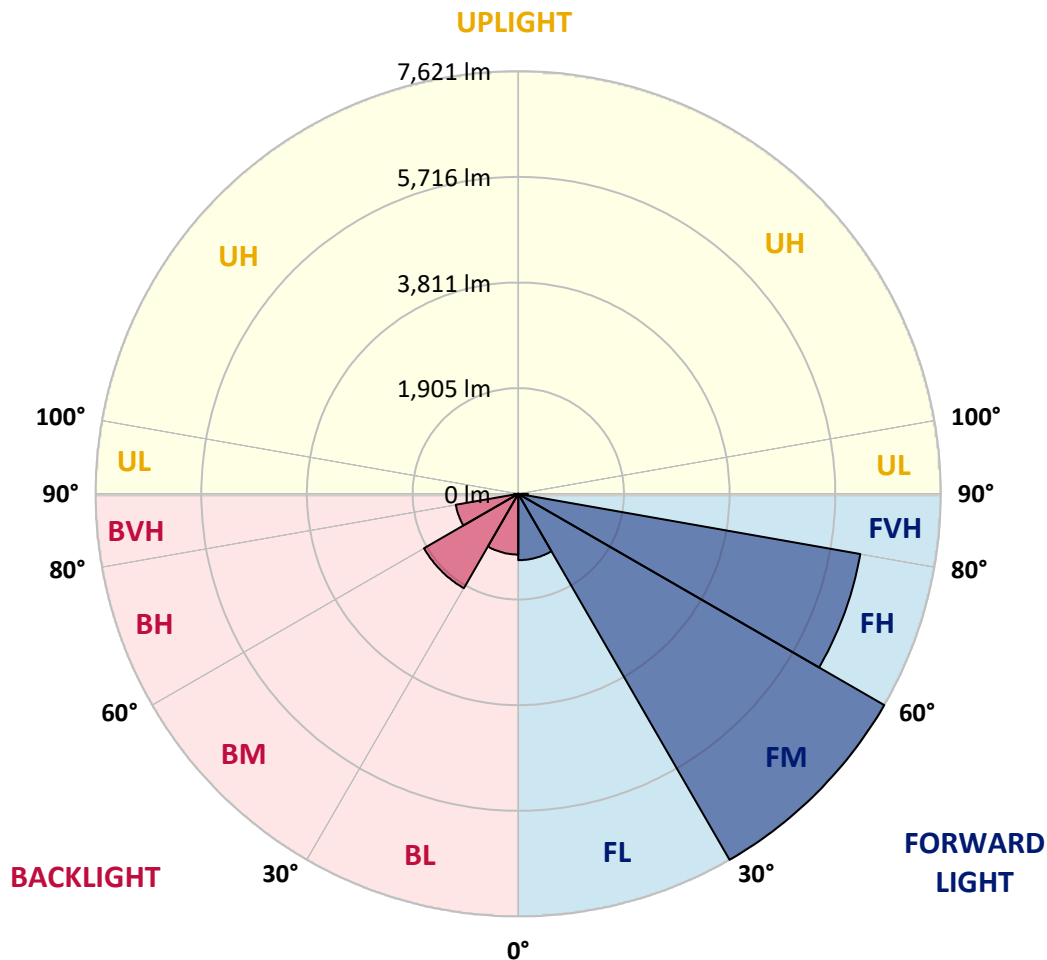


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1196.7	6.1			
FM (30°-60°)	7621.1	39.0			
FH (60°-80°)	6264.4	32.1			G3/7500
FVH (80°-90°)	172.9	0.9			G2/225
BL (0°-30°)	1096.0	5.6	B3/2500		
BM (30°-60°)	1963.8	10.1	B2/2500		
BH (60°-80°)	1143.1	5.9	B3/2500		G3/2500
BVH (80°-90°)	74.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0
2.5°	2511.9	2510.8	2523.9	2527.9	2551.8	2568.9	2600.9	2635.0	2678.9	2684.0	2710.9
5°	2366.8	2366.8	2381.8	2397.9	2428.8	2462.9	2511.9	2570.9	2647.0	2659.0	2726.0
7.5°	2243.8	2251.8	2264.7	2295.8	2331.8	2380.9	2455.9	2539.8	2639.9	2659.0	2767.0
10°	2144.7	2153.7	2169.7	2194.7	2248.7	2316.8	2414.8	2522.8	2656.9	2686.9	2827.0
12.5°	2113.8	2122.8	2131.7	2150.8	2200.8	2280.8	2397.9	2530.9	2697.9	2727.9	2909.1
15°	2185.7	2196.8	2189.8	2184.8	2210.7	2283.8	2405.9	2559.9	2748.9	2792.0	3010.0
17.5°	2351.9	2355.9	2339.8	2292.8	2288.8	2327.8	2443.8	2599.9	2813.0	2860.0	3112.1
20°	2619.9	2612.9	2579.9	2486.9	2433.9	2425.9	2508.9	2659.9	2879.0	2929.0	3222.1
22.5°	2984.1	2976.0	2910.0	2763.0	2644.9	2566.9	2602.9	2738.0	2953.0	3009.1	3329.2
25°	3438.2	3427.2	3330.1	3130.0	2947.0	2754.0	2730.9	2841.0	3044.0	3096.1	3441.2
27.5°	3968.4	3959.4	3854.3	3590.3	3326.1	3010.0	2890.0	2962.0	3139.1	3198.1	3567.2
30°	4538.6	4564.6	4378.5	4094.5	3760.3	3344.2	3104.1	3111.1	3262.2	3315.2	3720.3
32.5°	5208.8	5253.8	5029.8	4669.6	4213.5	3707.3	3374.2	3319.2	3441.2	3485.2	3913.3
35°	5873.0	5924.1	5738.0	5339.8	4814.6	4135.5	3656.3	3558.3	3679.2	3727.3	4169.5
37.5°	6447.2	6515.3	6419.3	6073.1	5457.9	4651.7	4024.4	3839.3	3972.4	4032.5	4513.6
40°	6900.4	7004.4	6997.5	6781.4	6216.1	5277.8	4491.5	4186.4	4336.5	4401.6	4930.8
42.5°	7268.5	7358.6	7436.6	7425.6	7007.4	5989.1	5040.7	4637.6	4751.7	4826.7	5399.9
45°	7522.6	7618.6	7786.7	7967.7	7768.7	6750.3	5670.0	5172.8	5276.8	5389.9	5959.0
47.5°	7749.7	7858.8	8076.8	8363.9	8414.9	7514.6	6359.2	5796.1	5891.1	6008.1	6520.2
50°	7769.7	7863.7	8201.8	8609.0	8874.0	8248.9	7099.5	6495.2	6584.3	6709.3	7121.5
52.5°	7286.5	7434.6	8024.8	8602.0	9085.2	8863.1	7834.7	7222.6	7322.5	7472.6	7743.7
55°	5656.0	5873.0	7505.6	8333.9	9010.2	9260.3	8533.9	7995.8	8123.8	8280.9	8369.9
57.5°	4871.7	4966.7	5958.1	7845.8	8668.0	9363.3	9124.1	8777.1	8983.1	9155.2	9032.1
60°	4378.5	4457.5	5043.7	7086.4	8217.8	9200.2	9580.4	9505.3	9861.4	10066.5	9709.4
62.5°	3850.3	3925.3	4458.5	5917.0	7641.7	8929.1	9868.4	10177.5	10761.8	10985.8	10347.6
65°	3326.1	3390.2	3901.4	4971.8	6909.4	8658.0	10017.5	10758.7	11595.0	11827.1	10877.8
67.5°	2742.0	2795.0	3278.2	4194.5	6019.1	8286.9	10091.5	11215.9	12320.3	12519.3	11139.9
70°	1978.7	2019.7	2518.8	3317.1	4901.8	7648.7	10061.5	11540.1	12696.4	12855.4	10941.8
72.5°	935.3	972.3	1558.5	2153.7	3462.2	6406.2	9454.3	11282.9	12314.2	12235.2	9729.4
75°	499.2	531.2	895.3	1181.4	1828.6	4391.5	7736.7	9719.4	10340.6	9956.4	7190.5
77.5°	338.1	363.2	554.2	709.2	835.3	2084.7	4972.7	6729.3	6474.2	5840.0	3601.2
80°	268.1	294.1	454.2	480.2	404.2	753.3	2054.7	3115.1	2237.8	1789.6	1024.4
82.5°	206.0	235.0	382.1	348.1	220.1	309.1	598.2	985.3	573.2	436.1	248.0
85°	126.1	157.0	300.1	222.1	124.0	141.0	203.1	274.1	175.1	146.1	89.1
87.5°	64.1	90.0	152.0	81.1	56.1	33.0	54.0	54.0	46.0	40.0	23.0
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°	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0	2725.0
2.5°	2734.9	2755.0	2788.9	2821.0	2846.0	2870.0	2894.0	2907.0	2911.0	2927.0	2936.0
5°	2767.0	2804.0	2870.0	2932.0	2971.1	2995.0	3012.1	3022.0	3024.1	3029.1	3037.1
7.5°	2826.0	2885.0	2977.0	3039.0	3068.0	3066.1	3059.1	3034.1	3024.1	3015.0	3017.1
10°	2909.1	2987.1	3100.1	3143.1	3125.1	3077.0	3015.0	2942.1	2908.0	2875.0	2865.0
12.5°	3012.1	3111.1	3222.1	3220.1	3131.1	3008.1	2864.0	2751.9	2680.9	2629.9	2618.0
15°	3137.1	3251.1	3336.2	3268.1	3073.1	2852.0	2640.9	2494.8	2430.9	2374.8	2368.8
17.5°	3266.2	3388.1	3427.2	3253.1	2927.0	2620.9	2381.8	2266.8	2203.8	2173.7	2182.7
20°	3392.1	3513.2	3481.2	3167.1	2705.0	2358.8	2145.7	2082.7	2069.7	2076.8	2073.7
22.5°	3525.2	3633.2	3492.2	3001.0	2421.9	2090.7	1973.6	1975.7	2004.7	2025.7	2030.7
25°	3661.3	3734.3	3463.2	2760.9	2117.8	1893.7	1864.7	1896.7	1953.6	1994.6	2005.7
27.5°	3792.3	3824.4	3400.2	2463.9	1856.7	1752.6	1757.6	1823.7	1909.7	1966.7	1980.7
30°	3940.4	3904.3	3279.2	2129.7	1675.6	1631.6	1673.6	1750.6	1836.6	1887.6	1899.6
32.5°	4107.4	3973.4	3087.1	1820.6	1547.5	1534.5	1603.5	1653.5	1691.6	1706.6	1714.6
35°	4315.5	4070.4	2841.0	1603.5	1432.5	1463.5	1529.5	1504.5	1489.5	1481.5	1489.5
37.5°	4585.6	4201.5	2552.9	1462.5	1339.5	1412.4	1439.5	1361.5	1302.5	1273.5	1280.4
40°	4910.7	4393.6	2275.8	1353.5	1280.4	1368.5	1321.4	1227.4	1152.4	1111.4	1114.4
42.5°	5271.9	4594.6	2042.7	1271.4	1247.4	1332.5	1234.4	1122.4	1001.3	988.3	1001.3
45°	5650.9	4801.7	1883.6	1208.4	1231.4	1301.4	1184.4	1003.4	917.3	970.4	998.4
47.5°	6030.1	4991.8	1787.6	1161.4	1223.4	1266.5	1140.4	937.4	876.3	953.4	989.3
50°	6452.3	5161.8	1744.7	1127.4	1214.4	1252.4	1074.4	920.3	833.3	884.3	922.3
52.5°	6871.4	5293.8	1712.6	1093.4	1201.4	1241.5	1042.3	900.4	781.3	784.2	805.2
55°	7289.5	5379.9	1677.6	1048.4	1172.4	1217.4	1039.4	878.3	742.3	728.3	738.3
57.5°	7735.7	5428.9	1634.6	998.4	1122.4	1156.4	1036.4	861.3	730.2	707.2	710.2
60°	8189.9	5500.9	1578.5	937.4	1055.3	1083.4	1029.4	855.3	723.2	684.2	687.3
62.5°	8597.0	5525.9	1511.6	879.3	969.3	1011.4	1014.3	850.3	704.3	637.2	637.2
65°	8864.1	5417.8	1394.5	813.2	876.3	937.4	985.3	833.3	670.2	603.2	603.2
67.5°	8853.1	5109.7	1211.4	728.3	786.3	855.3	943.3	804.3	629.2	561.2	564.2
70°	8441.0	4501.6	979.4	629.2	687.3	767.3	889.3	761.3	580.3	515.2	521.2
72.5°	7239.5	3523.2	711.2	513.2	572.2	676.2	819.3	709.2	530.2	474.2	471.2
75°	5171.8	2229.8	482.2	394.1	445.2	573.2	732.3	648.2	484.2	476.2	449.2
77.5°	2641.9	1065.4	319.1	288.1	310.1	452.1	615.2	579.2	491.2	393.1	350.1
80°	859.3	393.1	201.1	196.1	206.0	301.1	476.2	475.2	372.2	267.1	236.1
82.5°	274.1	169.0	131.0	126.1	121.1	189.1	332.1	376.2	251.1	169.0	168.1
85°	109.1	101.1	77.0	71.0	51.0	89.1	174.0	250.1	187.1	122.1	125.0
87.5°	40.0	40.0	21.0	15.0	11.0	30.0	47.0	75.0	107.0	63.0	62.0
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)