

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: P883269

Luminaire Tested: **NAV-SB3C-740-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-740-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24235 lumens
Efficiency: N/A
Efficacy: 162.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

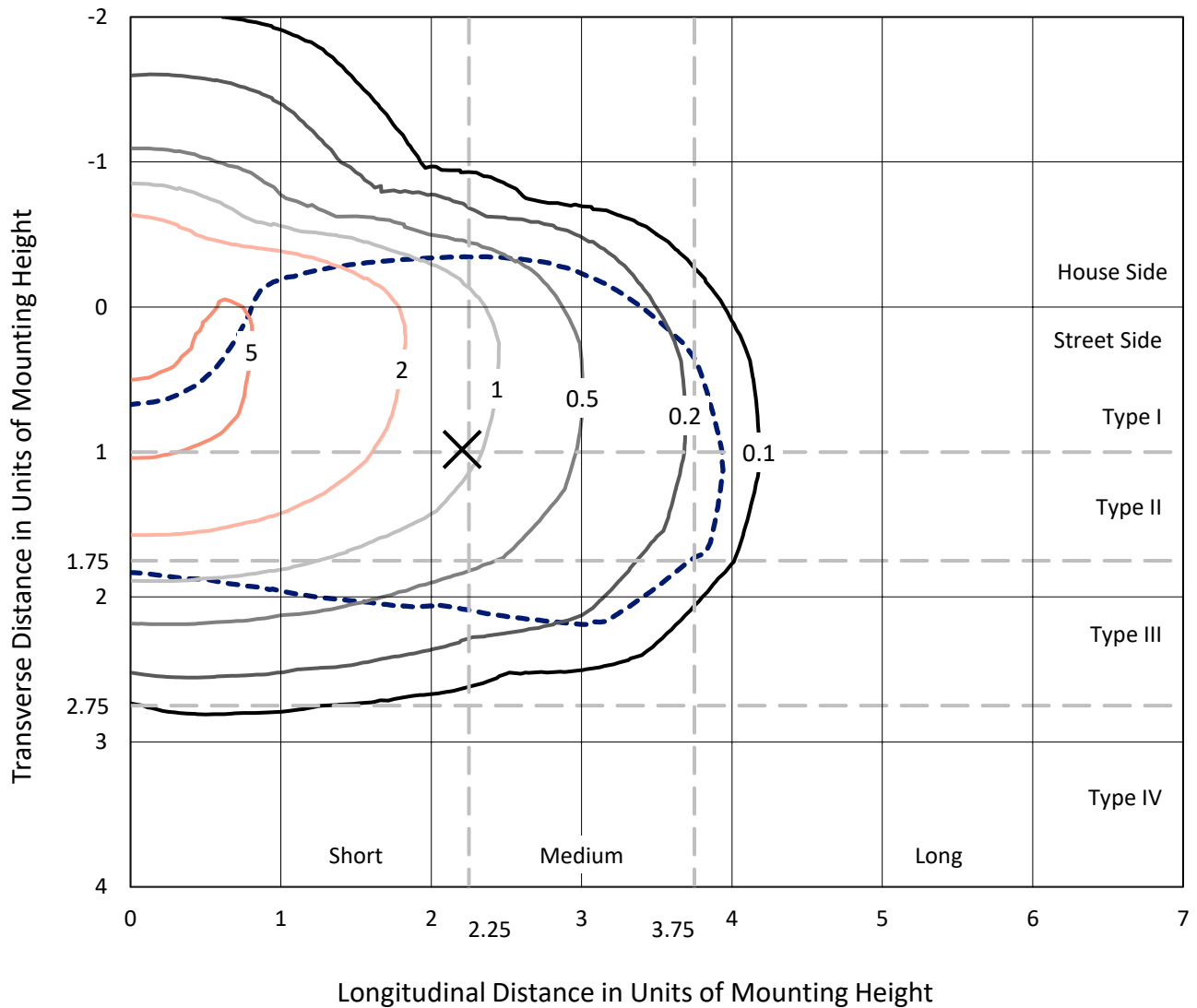
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

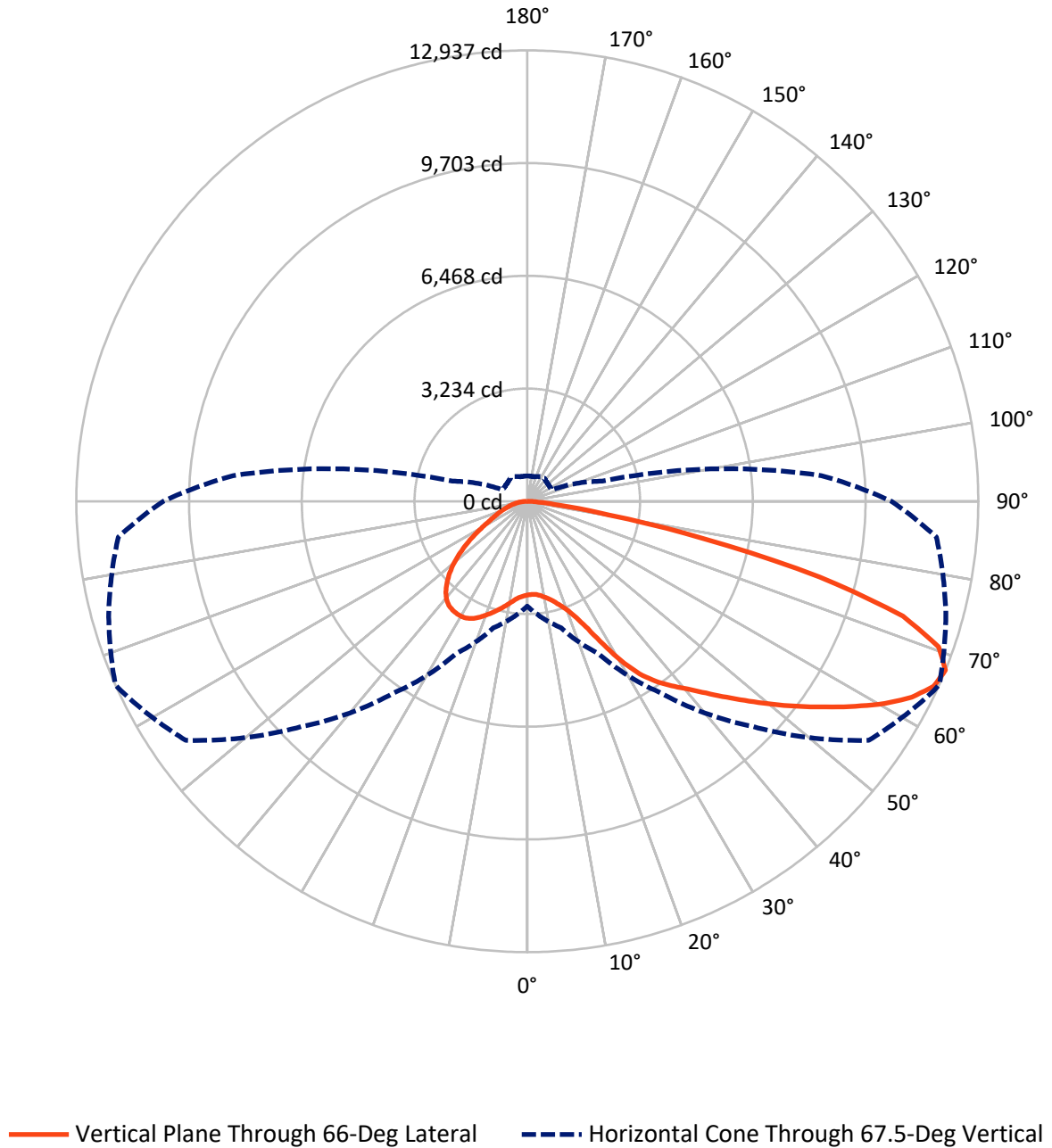
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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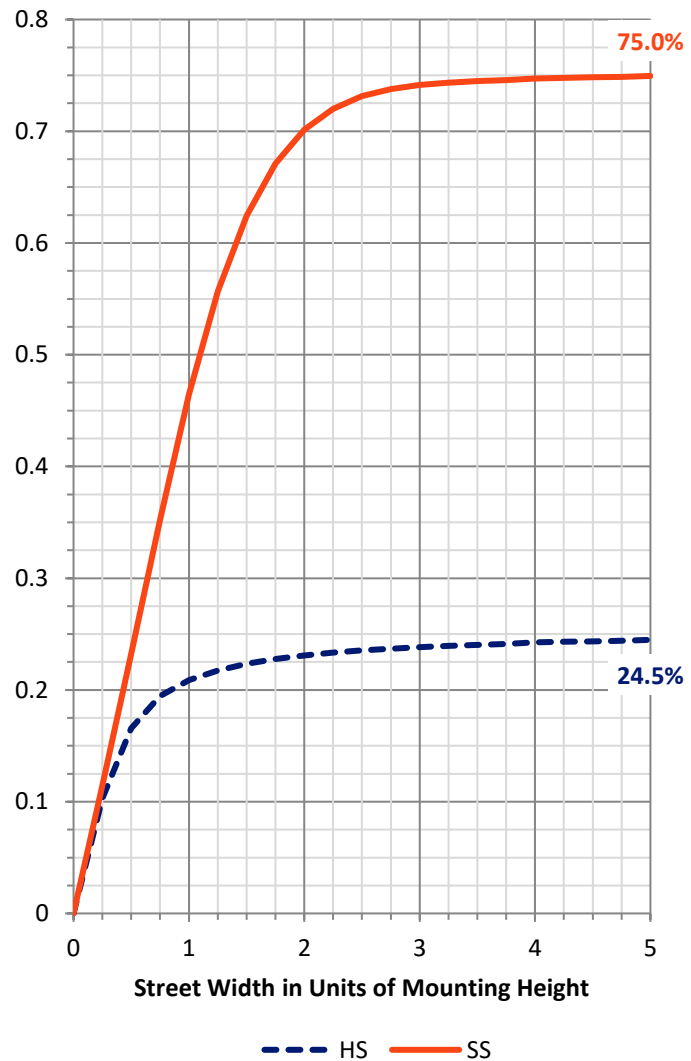
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6026.0	0.0	6026.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	18209.0	0.0	18209.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	24235.0	0.0	24235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.5	1.1
10°-20°	880.5	3.6
20°-30°	1697.1	7.0
30°-40°	2975.6	12.3
40°-50°	4423.8	18.3
50°-60°	5607.6	23.1
60°-70°	5486.9	22.6
70°-80°	2617.3	10.8
80°-90°	279.7	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°	24235.0	100.0
0°-180°	24235.0	100.0

Coefficient of Utilization

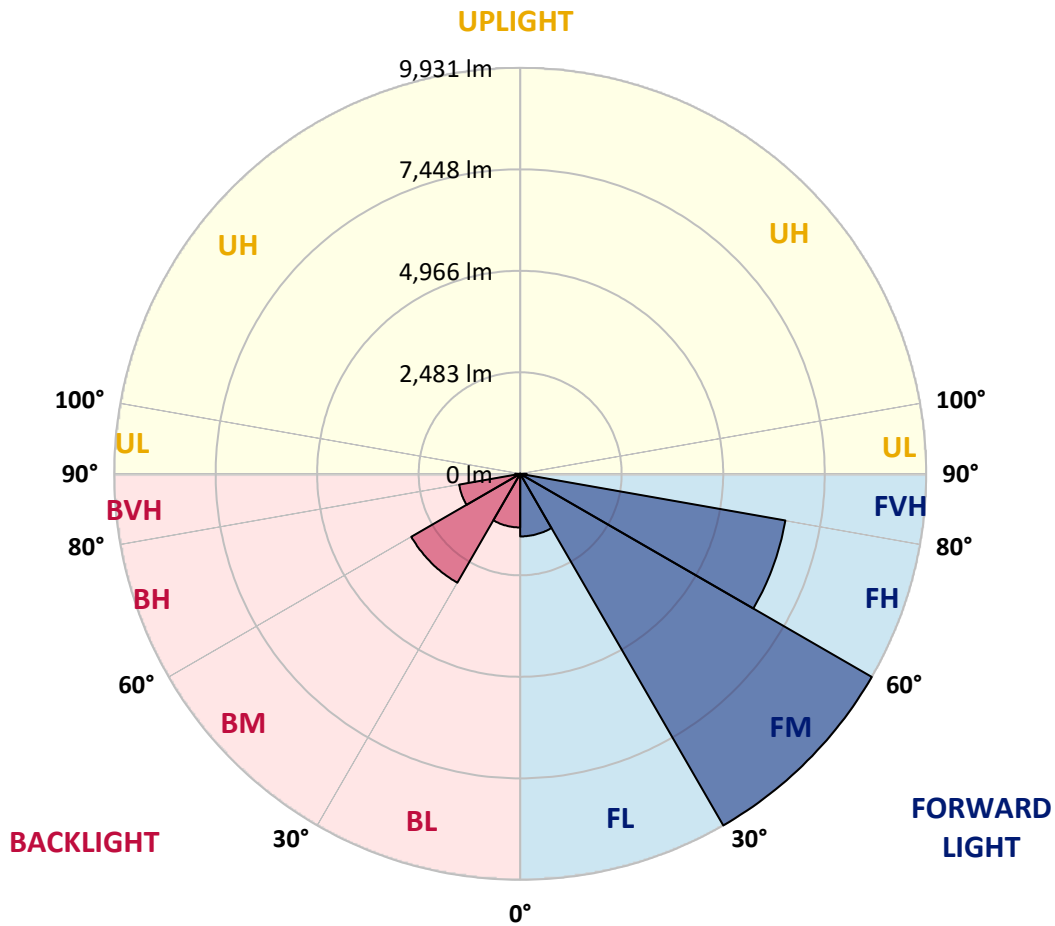


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1531.4	6.3			
FM (30°-60°)	9931.3	41.0			
FH (60°-80°)	6587.7	27.2			G3/7500
FVH (80°-90°)	158.6	0.7			G2/225
BL (0°-30°)	1312.7	5.4	B3/2500		
BM (30°-60°)	3075.7	12.7	B3/5000		
BH (60°-80°)	1516.4	6.3	B3/2500		G3/2500
BVH (80°-90°)	121.1	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-G3
 Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0
2.5°	2660.0	2675.2	2671.4	2665.1	2663.8	2666.3	2670.2	2674.0	2672.7	2679.1	2689.3
5°	2652.3	2667.6	2666.3	2666.3	2671.4	2681.6	2688.0	2694.3	2688.0	2695.6	2709.6
7.5°	2657.4	2668.9	2674.0	2679.1	2691.8	2710.9	2726.2	2740.2	2732.5	2741.5	2759.3
10°	2722.4	2731.3	2736.4	2736.4	2745.3	2766.9	2782.2	2807.7	2801.3	2815.3	2838.2
12.5°	2840.8	2849.7	2849.7	2844.6	2851.0	2865.0	2870.1	2898.1	2886.6	2909.5	2932.5
15°	2985.9	3003.8	2989.8	2980.8	2983.4	2997.4	2996.1	3017.8	3006.3	3025.4	3045.8
17.5°	3146.4	3169.3	3146.4	3145.1	3140.0	3155.3	3156.6	3175.7	3155.3	3169.3	3183.3
20°	3336.1	3367.9	3348.8	3355.2	3343.7	3350.1	3356.5	3384.5	3352.7	3362.8	3359.0
22.5°	3603.5	3641.7	3621.3	3645.5	3637.9	3632.8	3631.5	3681.2	3631.5	3635.3	3598.4
25°	3993.1	4039.0	4003.3	4036.4	4036.4	4053.0	4072.1	4135.7	4053.0	4028.8	3933.3
27.5°	4568.7	4614.5	4544.5	4564.9	4558.5	4599.2	4578.9	4736.8	4647.6	4608.2	4415.9
30°	5261.4	5342.9	5210.4	5205.3	5199.0	5263.9	5293.2	5397.6	5307.2	5267.7	5036.0
32.5°	6010.1	6095.4	5937.5	5891.7	5867.5	5906.9	5882.7	5966.8	5904.4	5843.3	5556.8
35°	6802.1	6886.1	6735.9	6646.7	6550.0	6467.2	6380.6	6402.3	6343.7	6250.7	5954.1
37.5°	7550.8	7704.9	7545.7	7450.2	7271.9	7110.2	6868.3	6767.7	6713.0	6627.6	6328.4
40°	8313.5	8401.4	8280.4	8198.9	8005.4	7752.0	7364.9	7152.2	7078.4	6995.6	6742.2
42.5°	8875.1	8959.1	8894.2	8838.1	8686.6	8392.5	7892.0	7625.9	7519.0	7426.0	7210.8
45°	9320.7	9383.1	9342.4	9362.7	9297.8	9012.6	8438.3	8134.0	8023.2	7909.9	7740.5
47.5°	9500.3	9566.5	9631.4	9752.4	9863.1	9653.1	9025.3	8684.1	8566.9	8451.0	8284.2
50°	9479.9	9547.4	9735.8	9993.0	10336.8	10266.8	9644.1	9269.8	9161.5	9029.1	8875.1
52.5°	9316.9	9393.3	9635.2	10063.1	10610.6	10726.5	10274.4	9874.6	9772.7	9614.9	9460.8
55°	8889.1	8934.9	9297.8	9903.9	10675.5	11047.3	10892.0	10518.9	10417.0	10196.8	10028.7
57.5°	8095.8	8162.0	8690.4	9474.8	10512.5	11265.1	11434.4	11196.3	11098.3	10781.2	10605.5
60°	7060.6	7166.3	7771.1	8754.1	10097.4	11263.8	11927.2	11862.3	11780.8	11356.8	11173.4
62.5°	5889.1	6011.4	6593.3	7735.4	9371.6	10944.2	12235.3	12420.0	12378.0	11887.7	11653.4
65°	4522.8	4606.9	5186.2	6417.5	8242.2	10257.9	12271.0	12800.7	12808.3	12291.4	11904.3
67.5°	3011.4	3253.3	3756.3	4815.7	6729.5	9136.1	11957.8	12863.1	12936.9	12430.2	11778.2
70°	1469.4	1787.7	2280.5	3129.8	4815.7	7415.8	11139.0	12351.2	12515.5	12025.2	11027.0
72.5°	609.9	713.1	981.7	1544.5	2764.4	5004.2	9493.9	10963.3	11267.6	10655.2	9271.1
75°	411.3	445.7	561.5	792.0	1259.3	2467.7	6846.6	8174.7	8665.0	8047.4	6578.0
77.5°	317.1	338.7	408.7	553.9	748.7	933.3	3664.6	4926.5	5179.9	4795.3	3422.7
80°	249.6	266.1	305.6	403.6	531.0	499.1	1249.1	2232.1	2378.6	1995.3	1100.1
82.5°	216.5	222.8	219.0	273.8	352.7	291.6	410.0	823.8	909.2	659.6	359.1
85°	156.6	174.4	182.1	169.4	187.2	147.7	168.1	291.6	320.9	286.5	202.5
87.5°	63.7	94.2	115.9	109.5	68.8	42.0	52.2	85.3	98.0	107.0	66.2
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°	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0	2688.0
2.5°	2690.5	2699.4	2705.8	2713.4	2718.5	2726.2	2741.5	2750.4	2751.6	2758.0	2756.7
5°	2714.7	2727.5	2741.5	2761.8	2784.8	2803.9	2833.1	2853.5	2861.2	2867.5	2866.2
7.5°	2766.9	2784.8	2810.2	2845.9	2879.0	2904.4	2940.1	2964.3	2988.5	2997.4	2998.7
10°	2844.6	2870.1	2907.0	2955.4	2991.0	3024.1	3061.1	3081.4	3105.6	3115.8	3120.9
12.5°	2941.4	2968.1	3016.5	3084.0	3117.1	3140.0	3152.7	3147.7	3152.7	3161.7	3164.2
15°	3052.2	3081.4	3136.2	3208.8	3231.7	3211.3	3183.3	3157.8	3154.0	3156.6	3165.5
17.5°	3183.3	3205.0	3268.6	3329.7	3313.2	3229.1	3168.0	3127.3	3106.9	3100.5	3109.5
20°	3366.7	3366.7	3418.9	3457.1	3346.3	3203.7	3108.2	3042.0	2999.9	2982.1	2978.3
22.5°	3589.5	3569.1	3602.2	3575.5	3339.9	3132.4	2999.9	2885.3	2821.7	2796.2	2792.4
25°	3872.2	3848.0	3839.1	3673.5	3294.1	3019.0	2803.9	2665.1	2609.0	2595.0	2597.6
27.5°	4298.7	4237.6	4121.7	3727.0	3210.0	2840.8	2574.7	2446.1	2414.2	2415.5	2419.3
30°	4866.6	4744.4	4460.4	3735.9	3072.5	2588.7	2340.4	2248.7	2233.4	2239.8	2261.4
32.5°	5392.5	5276.6	4806.8	3695.2	2861.2	2341.6	2130.3	2069.1	2046.2	2053.9	2064.1
35°	5805.1	5773.2	5127.7	3637.9	2601.4	2109.9	1941.8	1889.6	1845.0	1834.9	1842.5
37.5°	6194.7	6182.0	5368.3	3557.7	2344.2	1945.6	1790.3	1721.5	1656.6	1620.9	1622.2
40°	6622.5	6609.8	5526.2	3434.1	2116.3	1803.0	1654.0	1563.6	1483.4	1418.5	1424.8
42.5°	7103.9	7028.7	5601.3	3257.2	1922.7	1682.1	1543.3	1421.0	1315.3	1255.5	1259.3
45°	7629.7	7460.4	5600.1	3031.8	1759.7	1571.3	1424.8	1251.7	1153.6	1097.6	1095.1
47.5°	8187.5	7872.9	5531.3	2782.2	1601.8	1449.0	1241.5	1109.1	1044.1	1009.7	1002.1
50°	8763.0	8258.8	5414.2	2495.7	1440.1	1310.2	1126.9	1036.5	986.8	955.0	943.5
52.5°	9304.2	8608.9	5272.8	2171.0	1275.9	1175.3	1076.0	1005.9	953.7	918.1	902.8
55°	9807.1	8910.7	5072.9	1838.7	1142.2	1084.9	1051.8	993.2	933.3	891.3	874.8
57.5°	10254.1	9106.8	4727.8	1526.7	1046.7	1022.5	1026.3	971.5	902.8	867.1	844.2
60°	10625.9	9250.7	4217.2	1237.7	969.0	961.4	986.8	930.8	850.6	809.8	792.0
62.5°	10848.7	9248.1	3590.8	1013.6	902.8	905.3	934.6	879.9	798.4	760.2	748.7
65°	10829.6	9021.5	2903.2	867.1	839.1	841.7	879.9	823.8	755.1	732.2	730.9
67.5°	10446.3	8468.9	2227.0	771.6	769.1	780.5	825.1	785.6	728.3	725.8	729.6
70°	9408.6	7321.6	1604.4	695.2	696.5	713.1	771.6	761.4	714.3	719.4	718.2
72.5°	7544.4	5582.2	1077.2	615.0	616.3	643.0	720.7	742.3	700.3	767.8	778.0
75°	5024.5	3481.3	692.7	529.7	531.0	565.4	676.1	705.4	662.1	765.3	771.6
77.5°	2414.2	1564.9	501.7	445.7	445.7	477.5	584.5	631.6	564.1	594.6	545.0
80°	834.0	588.3	394.7	359.1	351.4	373.1	492.8	547.5	486.4	448.2	420.2
82.5°	328.5	305.6	317.1	278.9	253.4	267.4	383.3	452.0	357.8	323.4	322.2
85°	188.5	198.6	224.1	184.6	146.4	164.3	281.4	324.7	269.9	238.1	243.2
87.5°	50.9	70.0	103.1	95.5	66.2	70.0	133.7	179.5	155.3	119.7	123.5
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)