

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: P883919

Luminaire Tested: **NAV-SB4C-727-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883919
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-SB4C-727-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27524 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

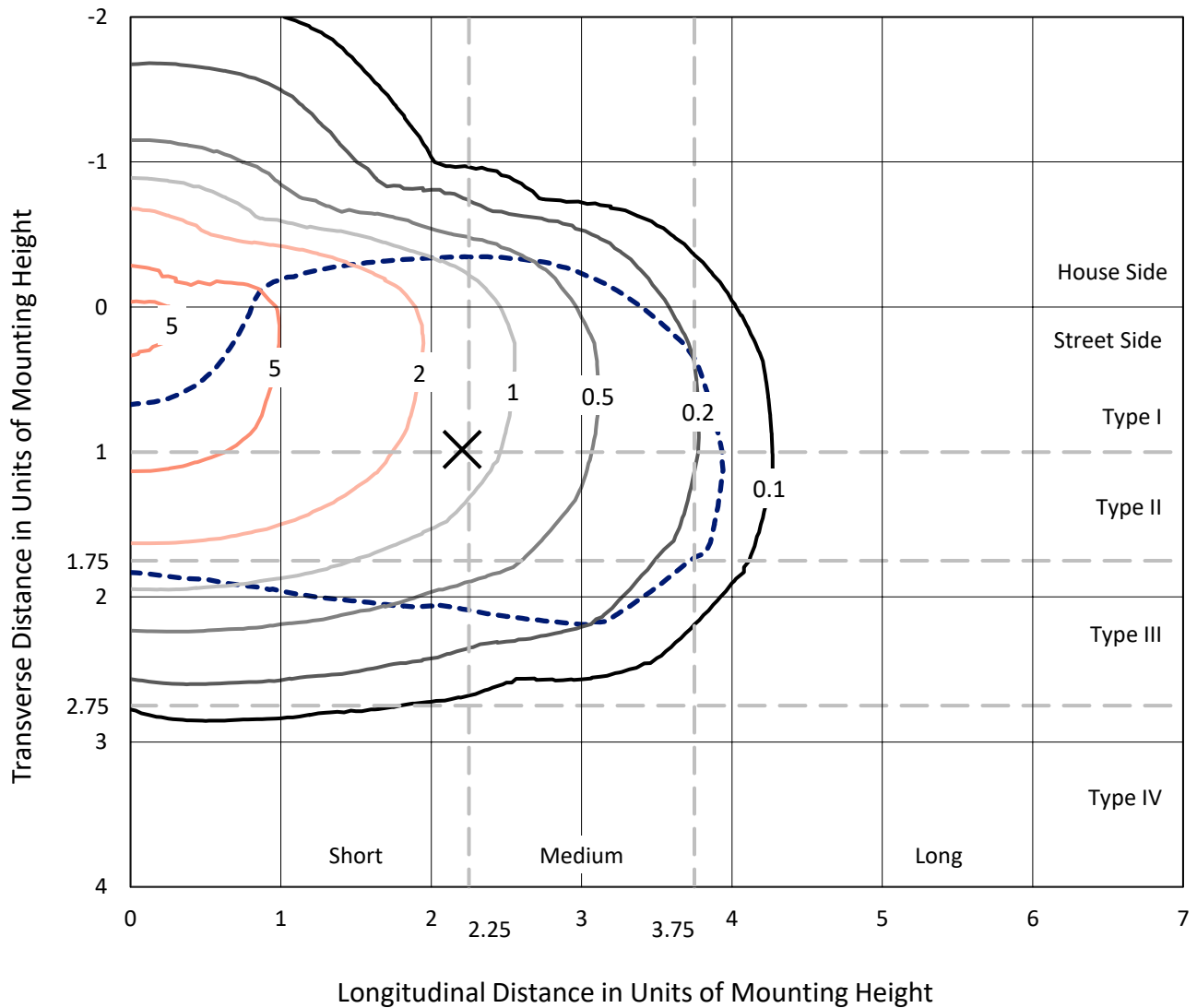
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

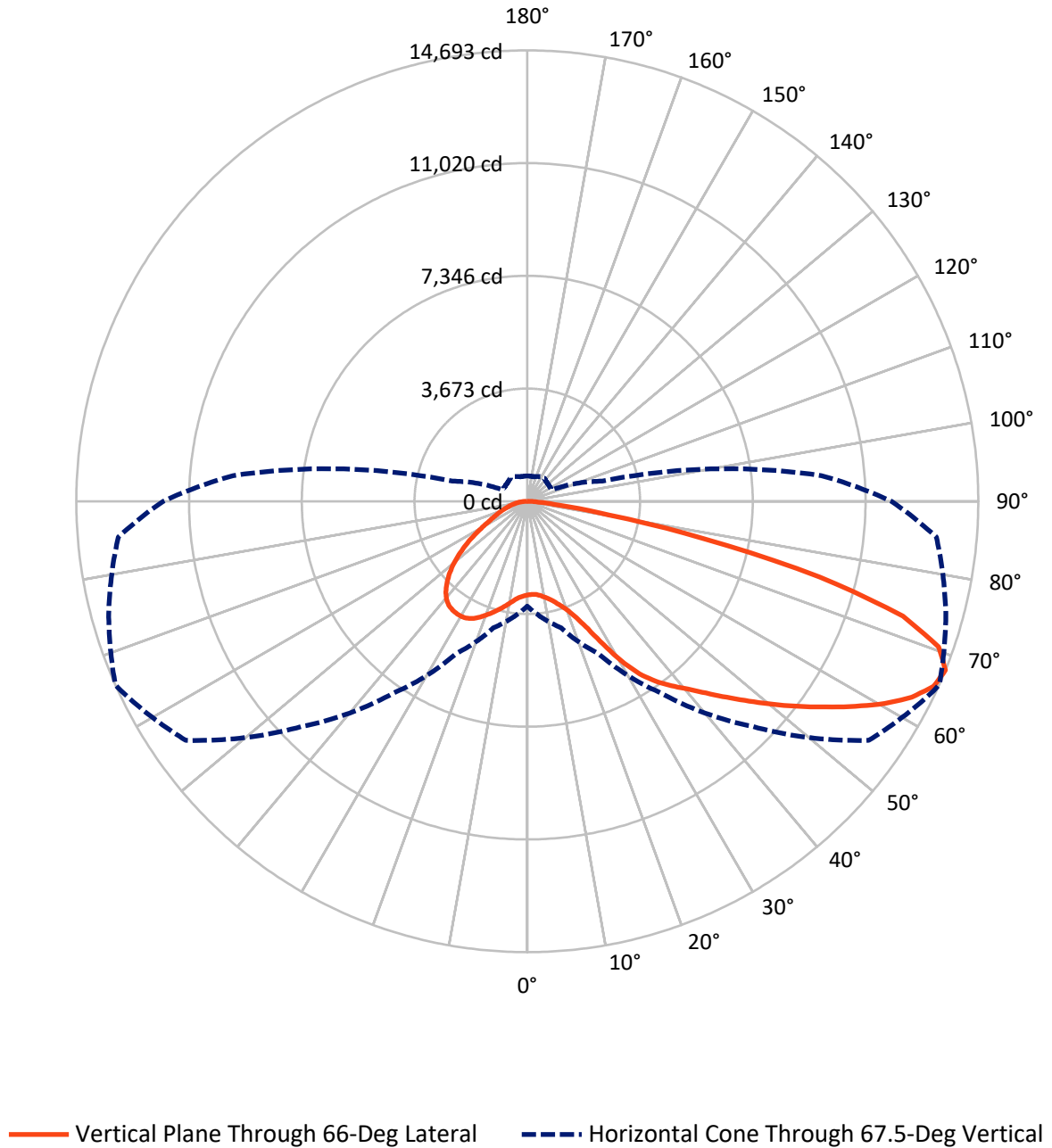
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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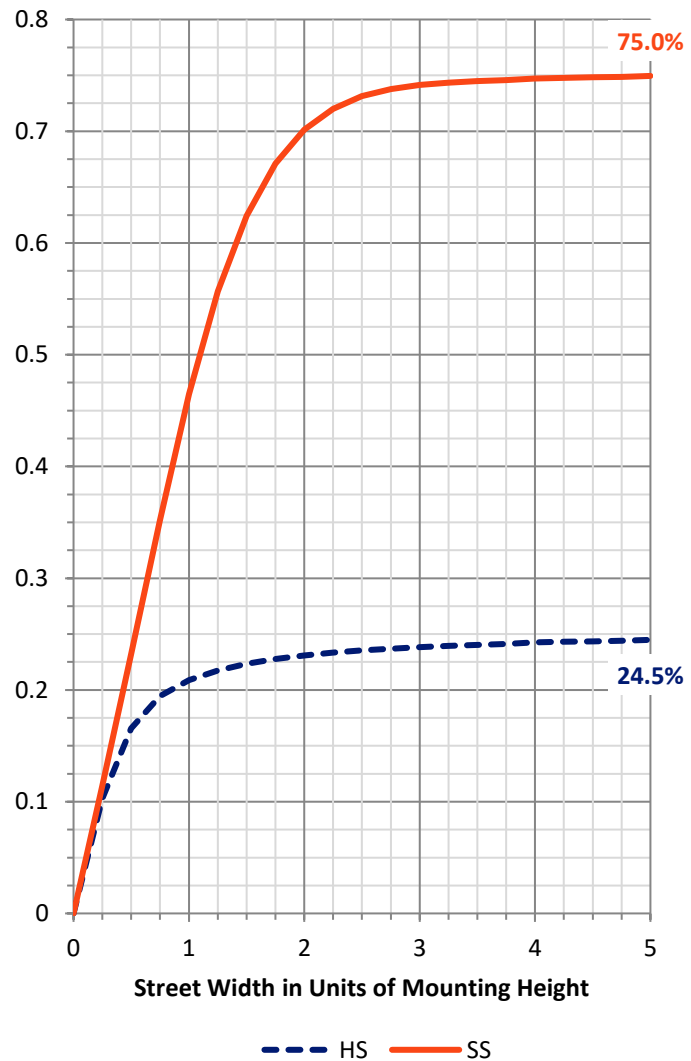
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6843.8	0.0	6843.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	20680.2	0.0	20680.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	27524.0	0.0	27524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.7	1.1
10°-20°	1000.0	3.6
20°-30°	1927.4	7.0
30°-40°	3379.5	12.3
40°-50°	5024.2	18.3
50°-60°	6368.6	23.1
60°-70°	6231.5	22.6
70°-80°	2972.5	10.8
80°-90°	317.7	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°	27524.0	100.0
0°-180°	27524.0	100.0

Coefficient of Utilization



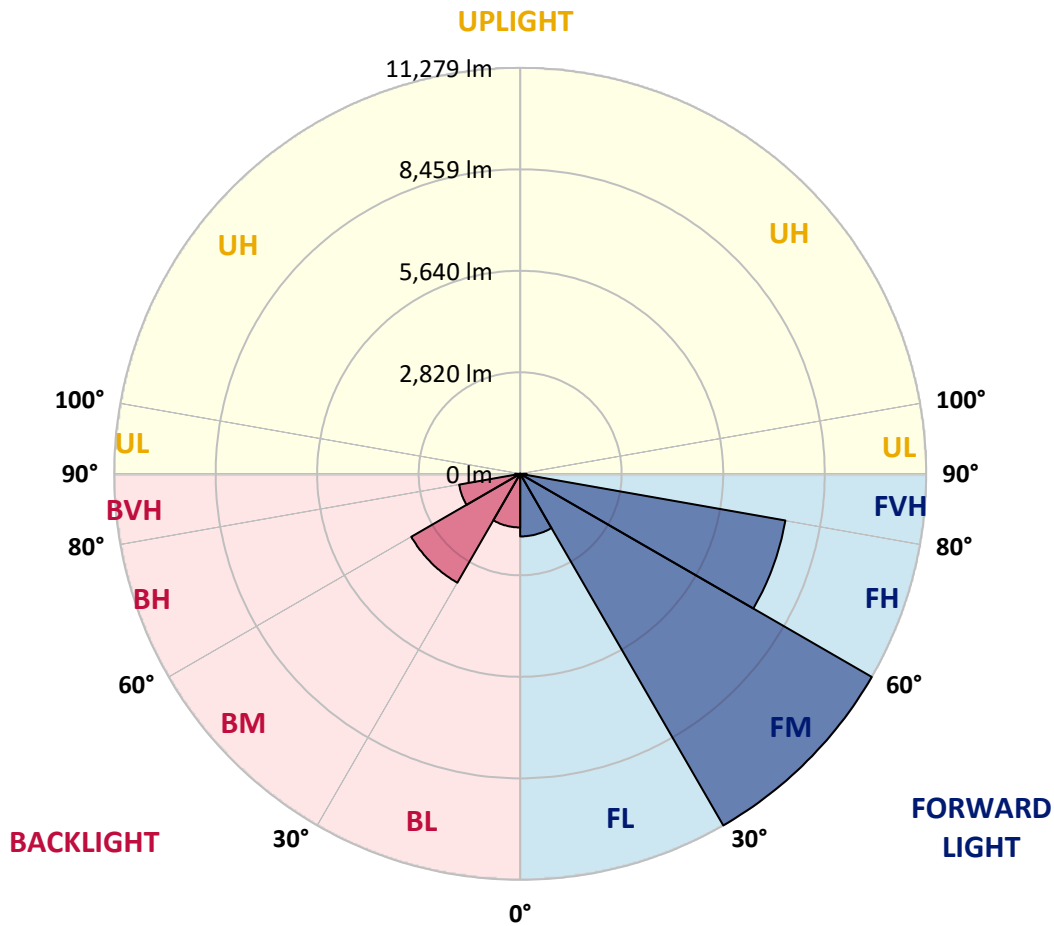
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1739.2	6.3			
FM (30°-60°)	11279.1	41.0			
FH (60°-80°)	7481.8	27.2			G3/7500
FVH (80°-90°)	180.1	0.7			G2/225
BL (0°-30°)	1490.8	5.4	B3/2500		
BM (30°-60°)	3493.1	12.7	B3/5000		
BH (60°-80°)	1722.2	6.3	B3/2500		G3/2500
BVH (80°-90°)	137.6	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3052.8	3052.8	3052.8	3052.8	3052.8	3052.8	3052.8	3052.8	3052.8	3052.8	3052.8
2.5°	3021.0	3038.3	3034.0	3026.7	3025.3	3028.2	3032.5	3036.9	3035.4	3042.7	3054.2
5°	3012.3	3029.6	3028.2	3028.2	3034.0	3045.5	3052.8	3060.0	3052.8	3061.5	3077.4
7.5°	3018.1	3031.1	3036.9	3042.7	3057.1	3078.8	3096.2	3112.1	3103.4	3113.5	3133.8
10°	3091.8	3101.9	3107.7	3107.7	3117.9	3142.4	3159.8	3188.7	3181.5	3197.4	3223.4
12.5°	3226.3	3236.4	3236.4	3230.6	3237.9	3253.8	3259.6	3291.4	3278.4	3304.4	3330.4
15°	3391.2	3411.4	3395.5	3385.4	3388.3	3404.2	3402.7	3427.3	3414.3	3436.0	3459.1
17.5°	3573.4	3599.4	3573.4	3571.9	3566.2	3583.5	3585.0	3606.6	3583.5	3599.4	3615.3
20°	3788.9	3825.0	3803.3	3810.5	3797.5	3804.8	3812.0	3843.8	3807.7	3819.2	3814.9
22.5°	4092.5	4135.9	4112.8	4140.3	4131.6	4125.8	4124.4	4180.8	4124.4	4128.7	4086.8
25°	4535.1	4587.1	4546.6	4584.2	4584.2	4603.0	4624.7	4697.0	4603.0	4575.5	4467.1
27.5°	5188.7	5240.8	5161.2	5184.4	5177.1	5223.4	5200.3	5379.6	5278.4	5233.5	5015.2
30°	5975.4	6068.0	5917.6	5911.8	5904.5	5978.3	6011.6	6130.1	6027.5	5982.6	5719.4
32.5°	6825.7	6922.6	6743.3	6691.2	6663.8	6708.6	6681.1	6776.6	6705.7	6636.3	6310.9
35°	7725.2	7820.7	7650.0	7548.8	7438.9	7344.9	7246.5	7271.1	7204.6	7099.0	6762.1
37.5°	8575.5	8750.5	8569.8	8461.3	8258.8	8075.2	7800.4	7686.2	7624.0	7527.1	7187.3
40°	9441.8	9541.5	9404.2	9311.6	9091.8	8804.0	8364.4	8122.9	8039.0	7945.0	7657.2
42.5°	10079.5	10175.0	10101.2	10037.6	9865.5	9531.4	8963.1	8660.9	8539.4	8433.8	8189.4
45°	10585.7	10656.5	10610.2	10633.4	10559.6	10235.7	9583.5	9237.9	9112.0	8983.3	8791.0
47.5°	10789.6	10864.8	10938.5	11075.9	11201.7	10963.1	10250.2	9862.6	9729.5	9597.9	9408.5
50°	10766.4	10843.1	11057.1	11349.2	11739.7	11660.1	10953.0	10527.8	10404.9	10254.5	10079.5
52.5°	10581.3	10668.1	10942.8	11428.7	12050.6	12182.2	11668.8	11214.7	11099.0	10919.7	10744.7
55°	10095.4	10147.5	10559.6	11248.0	12124.3	12546.6	12370.2	11946.5	11830.8	11580.6	11389.7
57.5°	9194.5	9269.7	9869.8	10760.6	11939.2	12793.9	12986.2	12715.8	12604.4	12244.4	12044.8
60°	8018.8	8138.8	8825.7	9942.1	11467.8	12792.4	13545.9	13472.1	13379.6	12898.0	12689.8
62.5°	6688.3	6827.2	7488.0	8785.2	10643.5	12429.5	13895.8	14105.5	14057.8	13501.0	13235.0
65°	5136.6	5232.1	5890.1	7288.5	9360.8	11650.0	13936.3	14537.9	14546.6	13959.5	13519.8
67.5°	3420.1	3694.9	4266.1	5469.3	7642.8	10376.0	13580.6	14608.8	14692.7	14117.1	13376.7
70°	1668.8	2030.4	2590.0	3554.6	5469.3	8422.2	12650.7	14027.4	14214.0	13657.2	12523.5
72.5°	692.7	809.8	1115.0	1754.2	3139.5	5683.3	10782.3	12451.2	12796.8	12101.2	10529.3
75°	467.1	506.1	637.7	899.5	1430.2	2802.6	7775.8	9284.1	9840.9	9139.5	7470.7
77.5°	360.1	384.7	464.2	629.1	850.3	1060.0	4162.0	5595.1	5882.8	5446.1	3887.2
80°	283.4	302.2	347.1	458.4	603.0	566.9	1418.7	2535.1	2701.4	2266.1	1249.5
82.5°	245.8	253.1	248.7	310.9	400.6	331.2	465.7	935.6	1032.5	749.1	407.8
85°	177.9	198.1	206.8	192.3	212.6	167.8	190.9	331.2	364.4	325.4	229.9
87.5°	72.3	107.0	131.6	124.4	78.1	47.7	59.3	96.9	111.4	121.5	75.2
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°	3052.8	3052.8	3052.8	3052.8	3052.8	3052.8	3052.8	3052.8	3052.8	3052.8	3052.8
2.5°	3055.7	3065.8	3073.0	3081.7	3087.5	3096.2	3113.5	3123.6	3125.1	3132.3	3130.9
5°	3083.1	3097.6	3113.5	3136.7	3162.7	3184.4	3217.6	3240.8	3249.4	3256.7	3255.2
7.5°	3142.4	3162.7	3191.6	3232.1	3269.7	3298.6	3339.1	3366.6	3394.1	3404.2	3405.6
10°	3230.6	3259.6	3301.5	3356.5	3397.0	3434.6	3476.5	3499.6	3527.1	3538.7	3544.5
12.5°	3340.6	3370.9	3425.9	3502.5	3540.1	3566.2	3580.6	3574.8	3580.6	3590.7	3593.6
15°	3466.4	3499.6	3561.8	3644.2	3670.3	3647.1	3615.3	3586.4	3582.1	3585.0	3595.1
17.5°	3615.3	3639.9	3712.2	3781.6	3762.8	3667.4	3598.0	3551.7	3528.6	3521.3	3531.4
20°	3823.6	3823.6	3882.9	3926.2	3800.4	3638.5	3530.0	3454.8	3407.1	3386.8	3382.5
22.5°	4076.6	4053.5	4091.1	4060.7	3793.2	3557.5	3407.1	3276.9	3204.6	3175.7	3171.4
25°	4397.7	4370.2	4360.1	4172.1	3741.1	3428.8	3184.4	3026.7	2963.1	2947.2	2950.1
27.5°	4882.1	4812.7	4681.1	4232.8	3645.7	3226.3	2924.1	2778.0	2741.9	2743.3	2747.6
30°	5527.1	5388.3	5065.8	4242.9	3489.5	2940.0	2658.0	2553.9	2536.5	2543.7	2568.3
32.5°	6124.4	5992.8	5459.1	4196.7	3249.4	2659.4	2419.4	2350.0	2323.9	2332.6	2344.2
35°	6592.9	6556.7	5823.6	4131.6	2954.4	2396.2	2205.3	2146.1	2095.4	2083.9	2092.5
37.5°	7035.4	7020.9	6096.9	4040.5	2662.3	2209.7	2033.3	1955.2	1881.4	1840.9	1842.4
40°	7521.3	7506.8	6276.2	3900.2	2403.5	2047.7	1878.5	1775.8	1684.7	1611.0	1618.2
42.5°	8067.9	7982.6	6361.5	3699.2	2183.7	1910.3	1752.7	1613.9	1493.8	1425.9	1430.2
45°	8665.2	8472.9	6360.1	3443.2	1998.5	1784.5	1618.2	1421.5	1310.2	1246.6	1243.7
47.5°	9298.6	8941.4	6282.0	3159.8	1819.2	1645.7	1410.0	1259.6	1185.8	1146.8	1138.1
50°	9952.3	9379.6	6148.9	2834.4	1635.6	1488.1	1279.8	1177.1	1120.7	1084.6	1071.6
52.5°	10566.9	9777.3	5988.4	2465.6	1449.0	1334.8	1222.0	1142.4	1083.1	1042.7	1025.3
55°	11138.1	10120.0	5761.4	2088.2	1297.2	1232.1	1194.5	1128.0	1060.0	1012.3	993.5
57.5°	11645.7	10342.7	5369.5	1733.9	1188.7	1161.2	1165.6	1103.4	1025.3	984.8	958.8
60°	12067.9	10506.1	4789.6	1405.6	1100.5	1091.8	1120.7	1057.1	966.0	919.7	899.5
62.5°	12321.0	10503.2	4078.1	1151.1	1025.3	1028.2	1061.5	999.3	906.7	863.3	850.3
65°	12299.3	10245.8	3297.2	984.8	953.0	955.9	999.3	935.6	857.6	831.5	830.1
67.5°	11864.0	9618.2	2529.3	876.4	873.5	886.5	937.1	892.3	827.2	824.3	828.6
70°	10685.4	8315.2	1822.1	789.6	791.0	809.8	876.4	864.8	811.3	817.1	815.6
72.5°	8568.3	6339.8	1223.4	698.5	699.9	730.3	818.5	843.1	795.4	872.0	883.6
75°	5706.4	3953.7	786.7	601.6	603.0	642.1	767.9	801.2	752.0	869.1	876.4
77.5°	2741.9	1777.3	569.8	506.1	506.1	542.3	663.8	717.3	640.6	675.3	618.9
80°	947.2	668.1	448.3	407.8	399.1	423.7	559.7	621.8	552.4	509.0	477.2
82.5°	373.1	347.1	360.1	316.7	287.8	303.7	435.3	513.4	406.4	367.3	365.9
85°	214.0	225.6	254.5	209.7	166.3	186.6	319.6	368.8	306.6	270.4	276.2
87.5°	57.8	79.5	117.1	108.5	75.2	79.5	151.8	203.9	176.4	135.9	140.3
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)