

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: P971022

Luminaire Tested: **NAV-SB6C-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971022
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-SB6C-827-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 33699.9 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 300.9
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



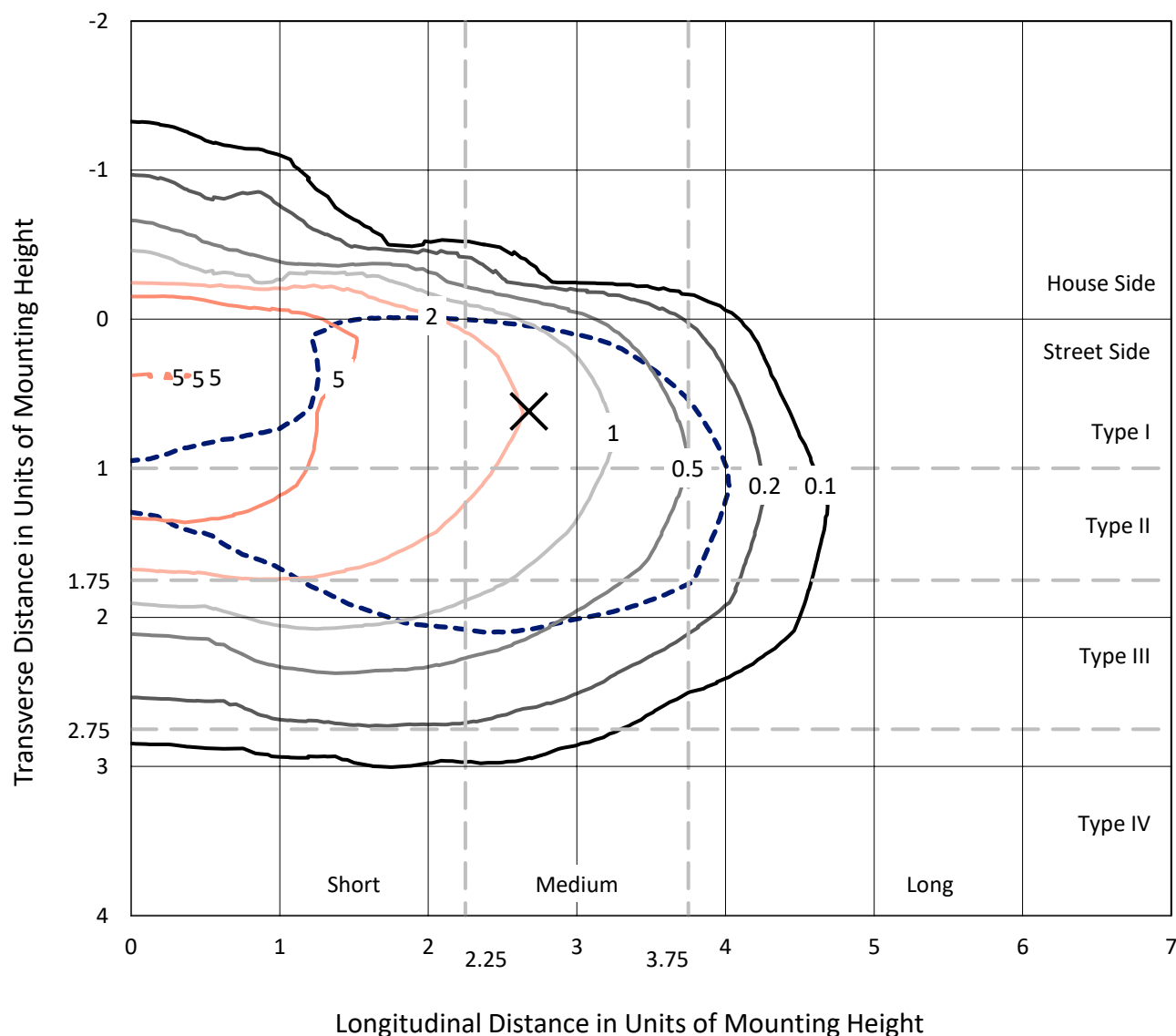
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

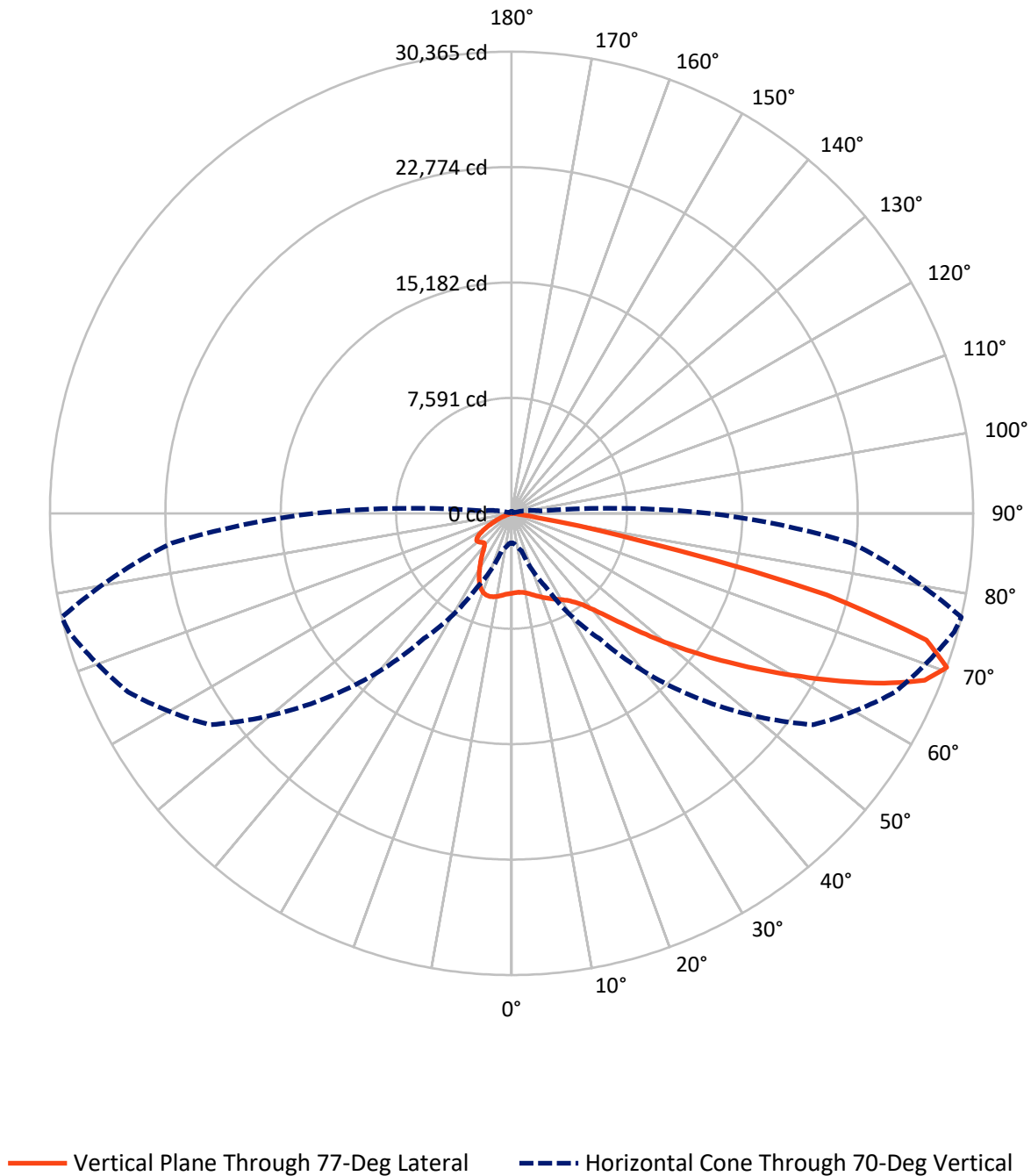
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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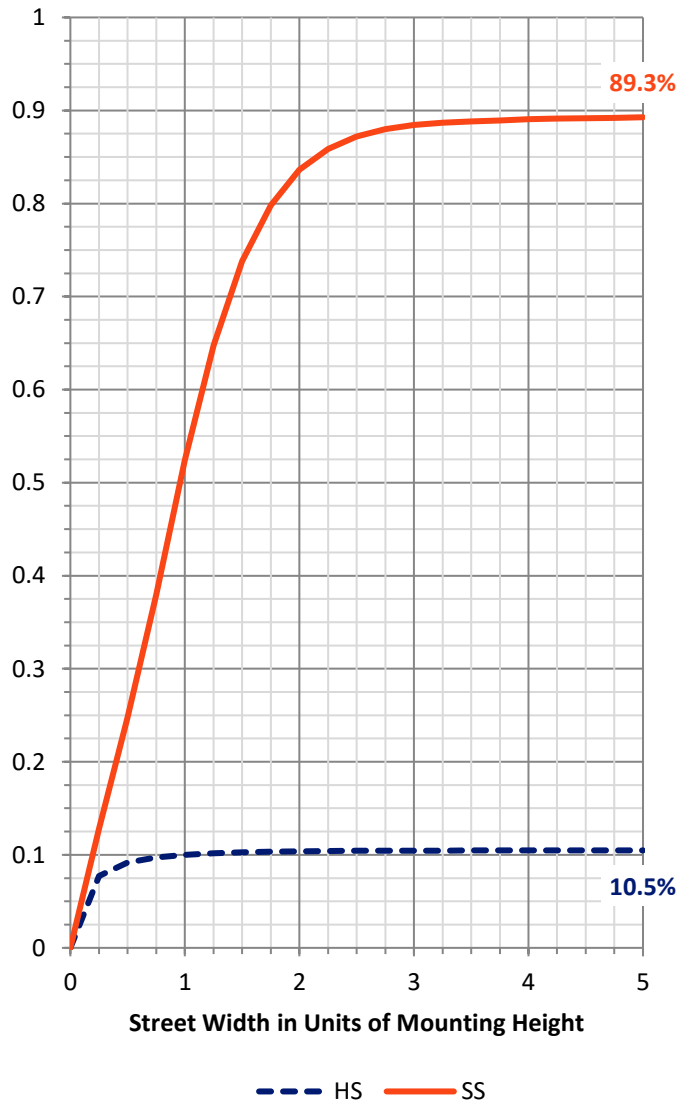
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3552.4	0.0	3552.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	30147.5	0.0	30147.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	33699.9	0.0	33699.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.0	1.3
10°-20°	1075.5	3.2
20°-30°	1663.4	4.9
30°-40°	3018.4	9.0
40°-50°	5697.5	16.9
50°-60°	8232.5	24.4
60°-70°	8763.2	26.0
70°-80°	4643.9	13.8
80°-90°	152.5	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°	33699.9	100.0
0°-180°	33699.9	100.0

Coefficient of Utilization



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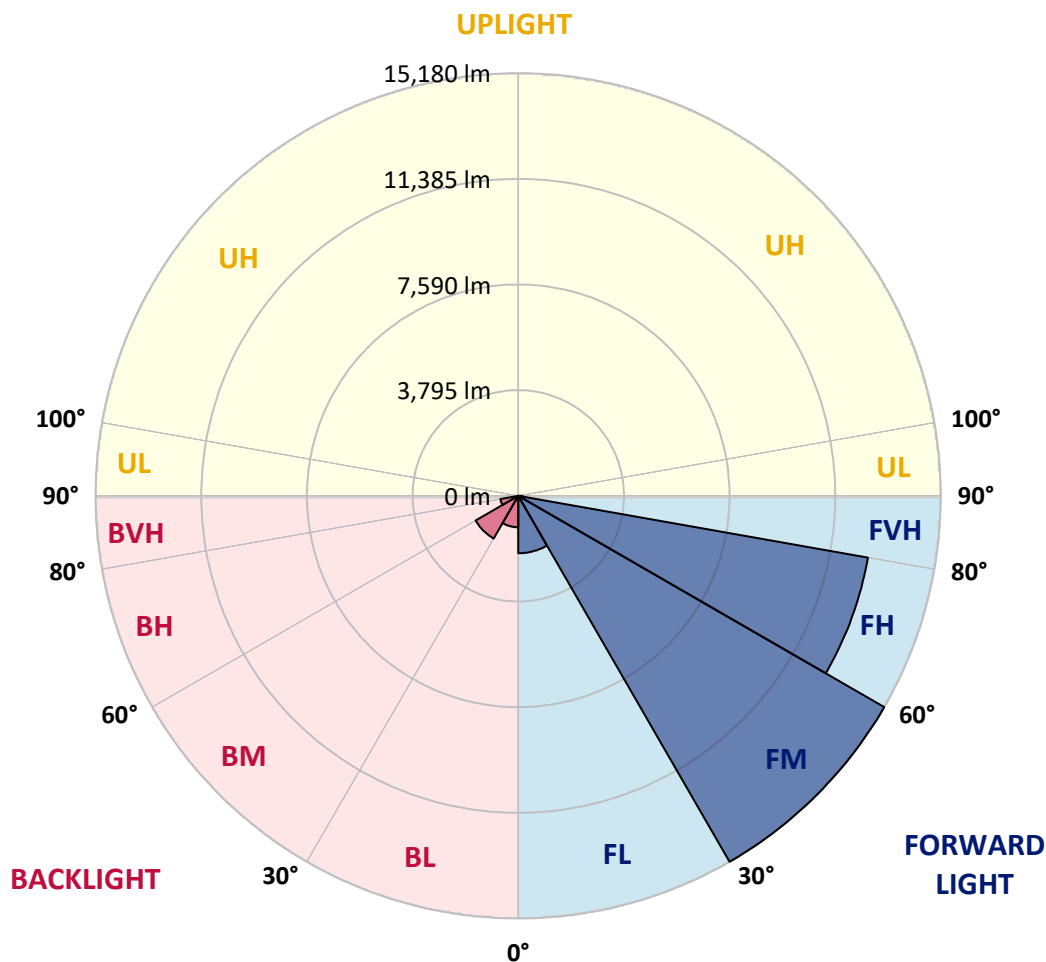
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2063.2	6.1			
FM	(30°-60°)	15180.0	45.0			
FH	(60°-80°)	12755.9	37.9			G5
FVH	(80°-90°)	148.4	0.4			G2/225
BL	(0°-30°)	1128.7	3.3	B3/2500		
BM	(30°-60°)	1768.4	5.2	B2/2500		
BH	(60°-80°)	651.2	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5256.6	5256.6	5256.6	5256.6	5256.6	5256.6	5256.6	5256.6	5256.6	5256.6	5256.6
2.5°	4935.3	4980.0	4973.5	5003.3	5014.0	5056.5	5099.1	5156.6	5220.4	5218.3	5260.8
5°	4656.5	4701.2	4711.8	4752.2	4803.3	4869.3	4956.5	5071.4	5190.6	5209.8	5294.8
7.5°	4326.5	4373.4	4401.0	4481.9	4575.6	4711.8	4854.4	5022.5	5220.4	5248.1	5411.9
10°	3996.7	4039.3	4075.4	4190.4	4339.3	4541.5	4773.5	5016.1	5282.1	5322.5	5554.6
12.5°	3792.4	3832.9	3873.3	3973.3	4158.4	4405.3	4720.3	5045.9	5384.3	5441.7	5748.2
15°	3720.0	3756.2	3788.2	3877.6	4049.9	4330.8	4709.7	5107.6	5514.1	5590.7	5982.3
17.5°	3730.7	3749.9	3771.1	3839.2	4007.3	4296.8	4728.8	5214.0	5667.3	5735.4	6216.4
20°	3792.4	3803.1	3805.2	3852.0	4001.0	4292.5	4767.1	5316.2	5812.1	5903.6	6448.4
22.5°	3871.1	3875.4	3871.1	3903.1	4041.4	4324.5	4818.2	5439.6	5973.8	6058.9	6682.5
25°	4239.3	4158.4	4056.3	3994.5	4109.5	4386.2	4894.8	5605.6	6150.4	6233.4	6910.1
27.5°	5382.2	5150.2	4784.1	4373.4	4250.0	4475.6	5001.2	5773.7	6329.2	6403.7	7154.9
30°	7237.9	6933.6	6312.2	5386.4	4701.2	4662.8	5139.6	5941.8	6518.6	6599.5	7416.7
32.5°	9097.9	9023.5	8306.3	7025.1	5716.2	5079.9	5369.4	6169.6	6769.7	6833.6	7769.9
35°	10979.3	10828.1	10240.8	8974.5	7280.5	5929.1	5752.4	6467.5	7099.6	7171.9	8285.0
37.5°	12420.0	12328.5	11964.6	10921.8	9136.2	7240.1	6407.9	6929.3	7578.4	7659.3	8944.7
40°	13692.7	13650.1	13526.6	12839.3	11211.2	8955.3	7427.4	7644.3	8242.4	8338.2	9753.4
42.5°	14692.9	14792.9	14863.1	14671.6	13350.0	10913.3	8797.9	8648.8	9168.1	9266.1	10783.4
45°	15716.5	15750.6	16033.7	16310.3	15473.9	12960.6	10342.9	9825.8	10319.5	10440.9	12017.8
47.5°	16374.2	16510.4	17008.3	17495.7	17259.5	14990.8	12002.9	11215.4	11653.8	11881.6	13401.1
50°	16423.1	16680.6	17365.9	18215.1	18559.8	16923.3	13807.6	12798.9	13264.9	13516.1	14878.1
52.5°	15608.0	16008.1	17070.0	18313.0	19262.1	18559.8	15674.0	14382.2	14980.2	15308.0	16410.4
55°	11966.7	12490.2	15957.0	17780.9	19289.8	19800.5	17491.4	16031.5	16891.3	17261.6	18066.0
57.5°	10425.9	10689.8	12545.6	16857.3	18776.9	20300.6	19134.4	17602.1	18970.5	19430.2	19630.3
60°	8674.5	9021.3	10521.7	15346.2	18080.9	20349.5	20585.8	19628.1	21224.3	21741.4	21064.7
62.5°	5895.1	6271.8	7763.6	12749.9	17129.7	20326.2	21775.4	21713.7	23729.2	24284.6	22279.8
65°	3652.0	3888.1	4871.4	10411.0	1579						

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5256.6	5256.6	5256.6	5256.6	5256.6	5256.6	5256.6	5256.6	5256.6	5256.6	5256.6
2.5°	5280.0	5284.3	5297.0	5299.1	5269.3	5231.1	5216.1	5209.8	5184.2	5182.1	5186.4
5°	5343.8	5363.0	5343.8	5288.5	5156.6	4971.5	4830.9	4716.0	4611.8	4579.8	4560.6
7.5°	5471.6	5490.7	5433.2	5216.1	4884.1	4515.9	4183.9	3949.8	3739.2	3660.5	3628.5
10°	5654.5	5680.1	5499.2	5060.8	4473.4	3881.8	3320.0	2924.1	2615.5	2489.9	2436.7
12.5°	5884.4	5895.1	5535.4	4824.6	3939.3	3094.4	2298.5	1874.9	1600.4	1498.2	1466.3
15°	6137.6	6122.7	5539.6	4503.2	3211.4	2187.8	1500.4	1232.3	1121.6	1087.5	1087.5
17.5°	6403.7	6342.0	5454.5	4039.3	2413.4	1496.1	1113.0	1049.2	1030.0	1021.5	1019.4
20°	6665.5	6527.1	5299.1	3432.7	1732.4	1117.2	1010.9	991.7	981.1	976.8	972.6
22.5°	6903.8	6667.5	5033.2	2728.3	1257.8	987.5	955.5	938.5	919.3	910.8	908.8
25°	7135.7	6748.4	4658.5	2070.7	1006.7	923.6	898.1	866.1	840.6	829.9	825.7
27.5°	7361.3	6799.5	4190.4	1532.3	898.1	864.1	817.2	772.5	753.4	749.1	744.9
30°	7601.8	6816.6	3658.3	1142.9	832.1	789.6	721.5	670.3	659.7	661.8	661.8
32.5°	7895.5	6842.1	3122.0	936.4	776.7	700.2	619.3	566.1	557.6	566.1	564.0
35°	8246.6	6893.1	2604.8	861.9	727.9	608.6	521.4	476.7	468.2	474.6	472.4
37.5°	8723.4	6976.2	2121.8	847.1	687.4	532.1	438.4	402.2	402.2	404.4	402.2
40°	9357.5	7197.4	1689.8	836.4	666.1	474.6	370.3	355.4	361.8	366.0	366.0
42.5°	10130.1	7667.8	1398.2	823.6	642.7	449.1	336.2	329.8	340.5	344.8	344.8
45°	10996.3	8263.7	1296.0	802.4	621.5	466.1	321.3	312.8	325.6	327.7	329.8
47.5°	11892.3	8846.8	1283.3	778.9	600.1	491.6	317.1	298.0	312.8	315.0	317.1
50°	12798.9	9227.8	1296.0	742.7	566.1	491.6	319.2	283.0	295.8	302.2	304.3
52.5°	13711.8	9402.2	1287.5	664.0	506.6	461.8	319.2	270.3	283.0	287.3	287.3
55°	14597.1	9368.2	1157.7	546.9	429.9	408.6	310.7	259.6	268.1	270.3	270.3
57.5°	15297.3	8893.6	917.3	425.7	349.0	340.5	283.0	246.8	253.3	251.1	251.1
60°	15663.3	7850.8	655.5	327.7	274.5	268.1	249.0	229.8	234.1	223.4	221.3
62.5°	15667.6	6471.7	438.4	259.6	219.2	212.8	212.8	206.4	202.1	180.9	174.6
65°	15333.5	4941.6	291.5	206.4	176.6	165.9	178.8	176.6	161.7	131.9	127.7
67.5°	14575.8	3239.1	221.3	161.7	136.2	129.9	142.6	148.9	138.4	110.7	108.5
70°	13018.0	1885.6	183.1	125.6	102.2	95.7	114.9	127.7			