

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: P970309

Luminaire Tested: **NAV-SB6B-727-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970309  
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-SB6B-727-U-T3R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

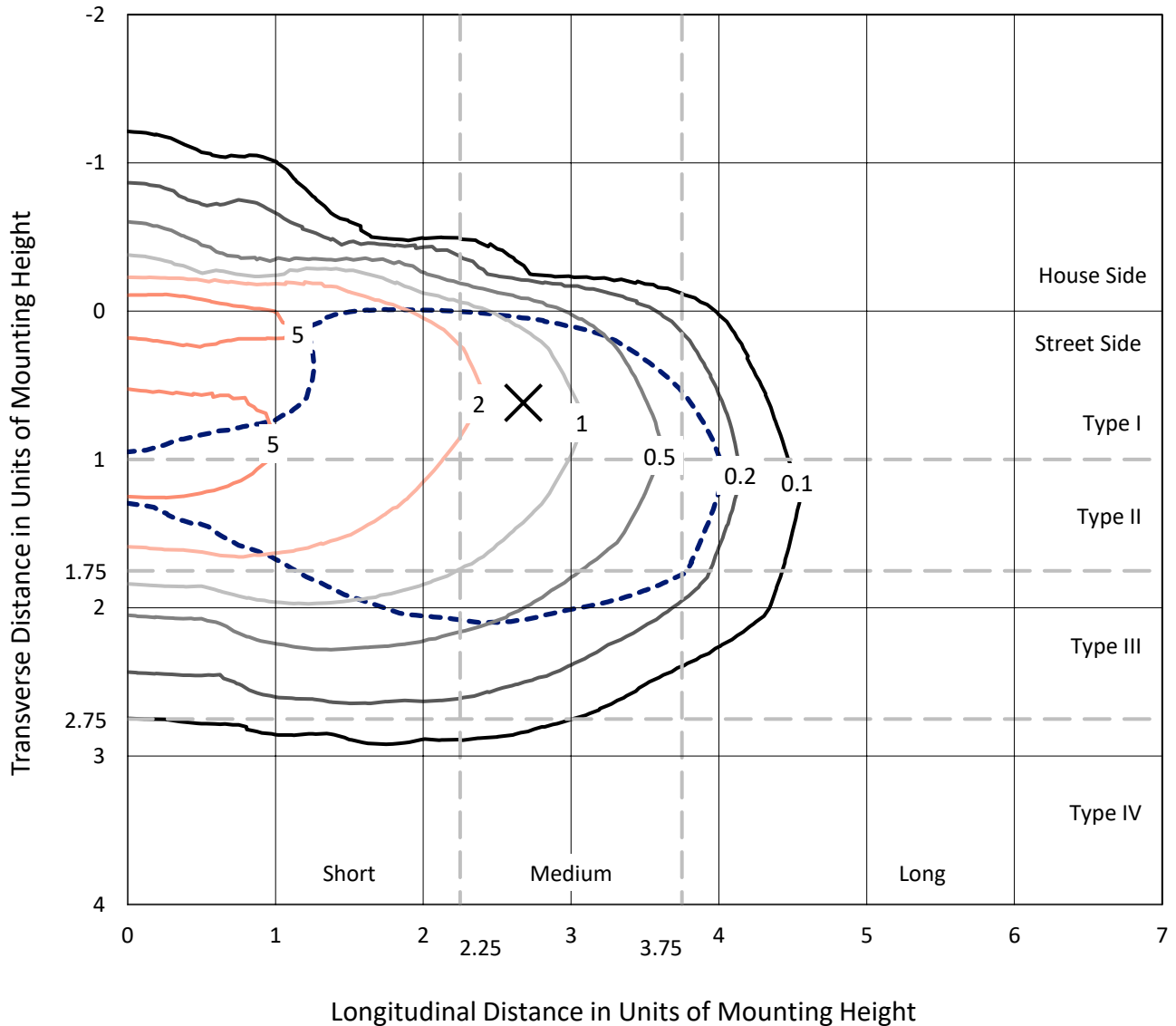
Lumens per Lamp: N/A  
Luminaire Lumens: 27028.2 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): 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

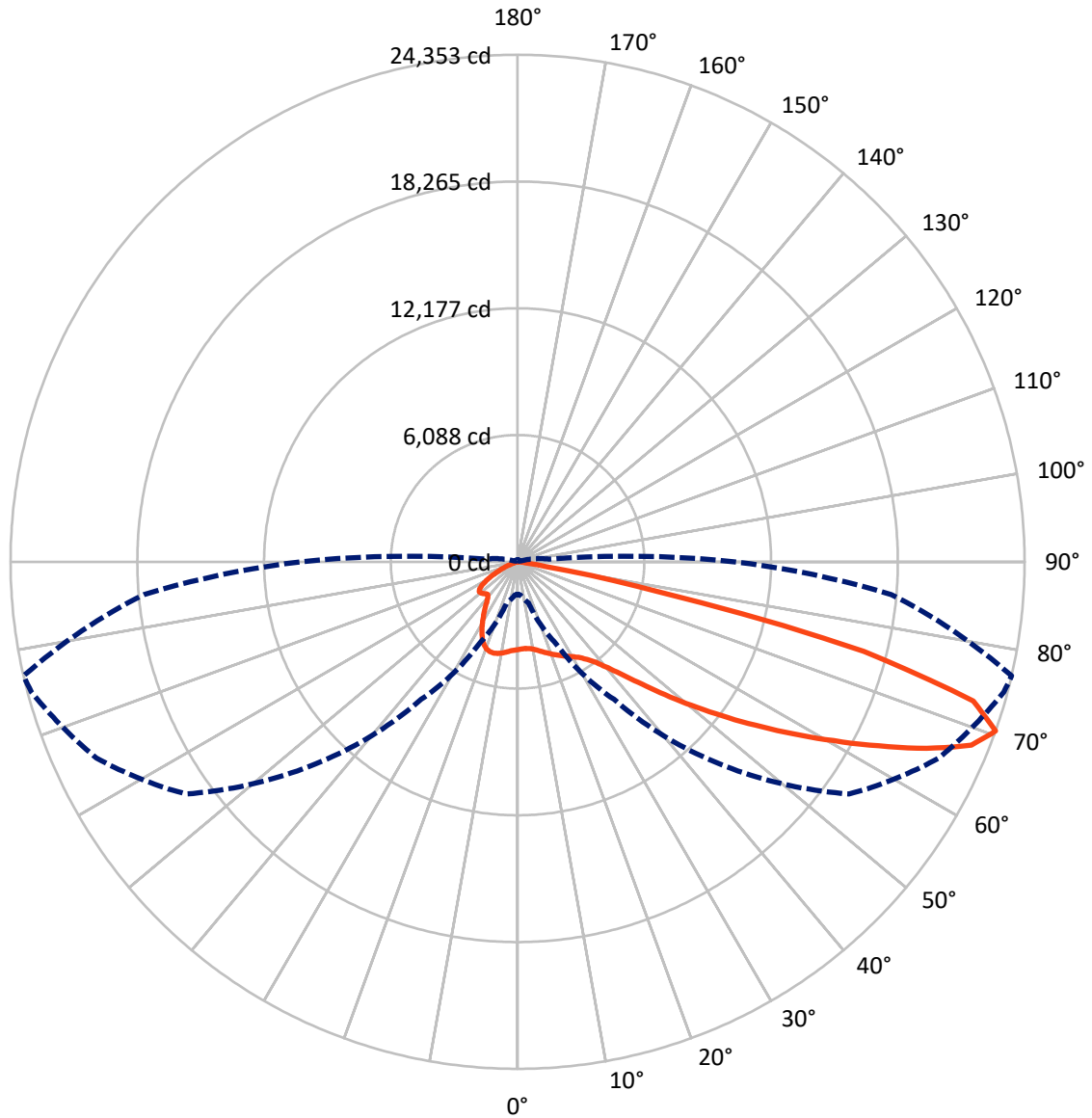
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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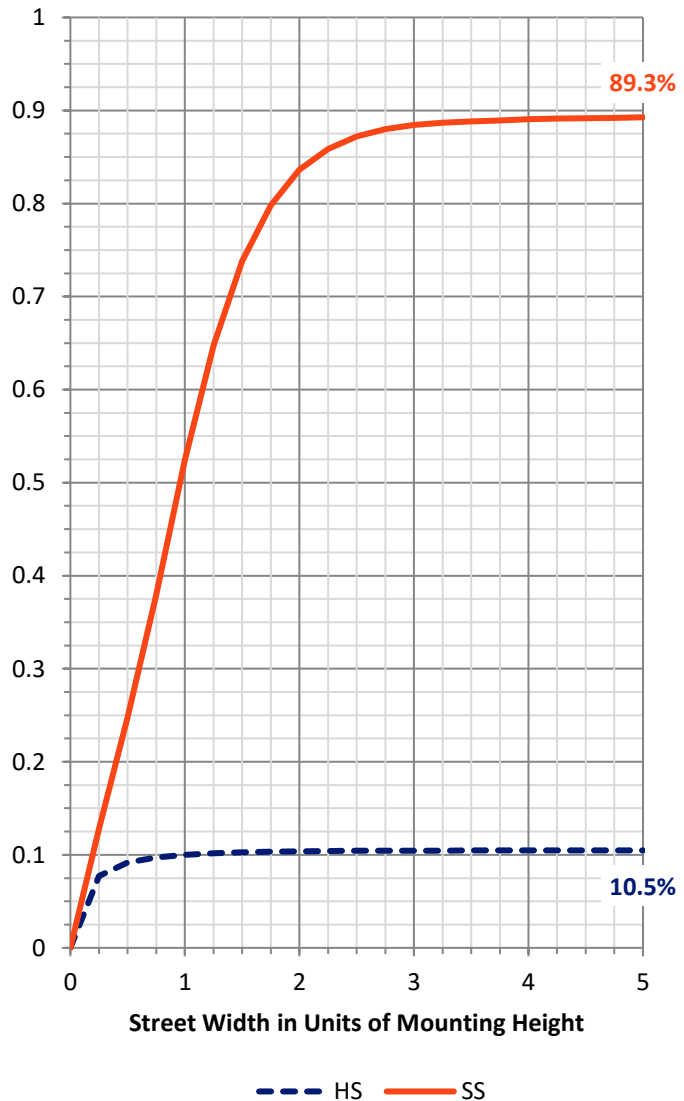
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2849.2	0.0	2849.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	24179.1	0.0	24179.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	27028.2	0.0	27028.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.3	1.3
10°-20°	862.5	3.2
20°-30°	1334.1	4.9
30°-40°	2420.8	9.0
40°-50°	4569.6	16.9
50°-60°	6602.7	24.4
60°-70°	7028.4	26.0
70°-80°	3724.5	13.8
80°-90°	122.3	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°	27028.2	100.0
0°-180°	27028.2	100.0

**Coefficient of Utilization**

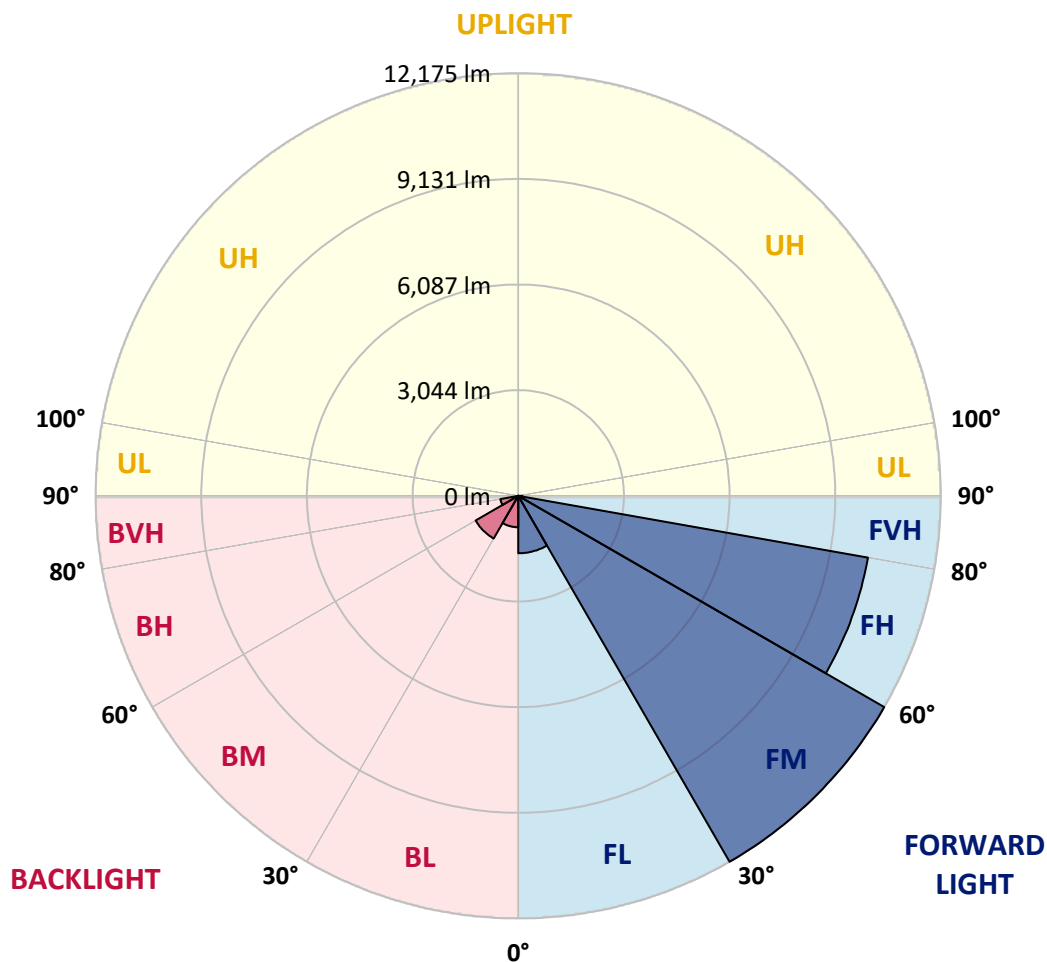


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1654.8	6.1			
FM (30°-60°)	12174.7	45.0			
FH (60°-80°)	10230.6	37.9			G4/12000
FVH (80°-90°)	119.0	0.4			G2/225
BL (0°-30°)	905.2	3.3	B2/1000		
BM (30°-60°)	1418.3	5.2	B2/2500		
BH (60°-80°)	522.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9
2.5°	3958.1	3994.0	3988.9	4012.8	4021.4	4055.5	4089.6	4135.7	4186.9	4185.2	4219.3
5°	3734.6	3770.5	3779.0	3811.4	3852.4	3905.2	3975.3	4067.4	4163.0	4178.4	4246.7
7.5°	3470.0	3507.6	3529.8	3594.6	3669.7	3779.0	3893.4	4028.1	4186.9	4209.1	4340.5
10°	3205.5	3239.6	3268.6	3360.8	3480.3	3642.4	3828.5	4023.0	4236.4	4268.8	4454.9
12.5°	3041.6	3074.1	3106.5	3186.7	3335.1	3533.2	3785.8	4046.9	4318.3	4364.4	4610.2
15°	2983.6	3012.6	3038.2	3109.8	3248.1	3473.4	3777.2	4096.4	4422.5	4483.9	4797.9
17.5°	2992.1	3007.5	3024.6	3079.2	3214.0	3446.2	3792.6	4181.8	4545.4	4600.0	4985.7
20°	3041.6	3050.1	3051.8	3089.4	3208.9	3442.7	3823.4	4263.7	4661.4	4734.8	5171.7
22.5°	3104.7	3108.2	3104.7	3130.4	3241.3	3468.3	3864.4	4362.7	4791.2	4859.4	5359.5
25°	3400.0	3335.1	3253.2	3203.7	3295.9	3517.8	3925.7	4495.9	4932.8	4999.3	5542.2
27.5°	4316.6	4130.5	3837.0	3507.6	3408.5	3589.6	4011.1	4630.6	5076.2	5135.9	5738.5
30°	5805.0	5560.9	5062.5	4320.1	3770.5	3739.7	4122.0	4765.5	5228.1	5292.9	5948.4
32.5°	7296.8	7237.0	6661.8	5634.3	4584.6	4074.3	4306.3	4948.2	5429.5	5480.7	6231.7
35°	8805.7	8684.4	8213.3	7197.8	5839.1	4755.3	4613.6	5187.1	5694.1	5752.1	6644.8
37.5°	9961.2	9887.8	9595.9	8759.5	7327.5	5806.7	5139.3	5557.4	6078.0	6142.9	7173.9
40°	10981.8	10947.7	10848.7	10297.5	8991.7	7182.4	5956.9	6131.0	6610.6	6687.4	7822.5
42.5°	11784.1	11864.3	11920.6	11767.0	10707.0	8752.7	7056.1	6936.6	7353.1	7431.7	8648.6
45°	12605.0	12632.4	12859.4	13081.3	12410.5	10394.7	8295.3	7880.5	8276.5	8373.8	9638.6
47.5°	13132.5	13241.8	13641.1	14032.0	13842.5	12023.0	9626.6	8995.1	9346.7	9529.3	10748.0
50°	13171.8	13378.3	13927.9	14608.9	14885.5	13572.8	11074.0	10265.0	10638.8	10840.2	11932.5
52.5°	12518.0	12838.9	13690.6	14687.4	15448.7	14885.5	12570.9	11534.8	12014.5	12277.3	13161.5
55°	9597.6	10017.5	12797.9	14260.7	15470.8	15880.5	14028.6	12857.7	13547.2	13844.3	14489.4
57.5°	8361.8	8573.5	10061.9	13520.0	15059.5	16281.6	15346.3	14117.3	15214.9	15583.5	15744.0
60°	6957.1	7235.4	8438.6	12308.1	14501.4	16320.9	16510.4	15742.3	17022.4	17437.2	16894.4
62.5°	4728.0	5030.1	6226.6	10225.7	13738.4	16302.1	17464.5	17415.0	19031.4	19476.8	17869.0
65°	2928.9	3118.5	3907.0	8349.9	12671.7	16322.6	18463.0	19446.1	21151.3	21603.6	18623.4
67.5°	2314.4	2401.6	2812.9	6411.0	10833.3	15861.8	19459.7	21356.1	23146.6	23505.0	18853.8
70°	1554.9	1607.8	2046.5	4297.8	8059.8	13735.0	19441.0	22315.4	24174.1	24353.3	18014.1
72.5°	819.3	860.3	1196.5	1990.1	4867.9	9763.1	16387.5	21168.3	23151.7	22882.0	15397.4
75°	409.7	478.0	805.6	1010.4	2078.9	5444.8	10176.2	16689.6	18222.3	17177.8	9879.3
77.5°	310.7	375.5	665.6	665.6	723.8	1833.1	4309.8	9102.6	8396.0	6991.2	2899.9
80°	198.0	256.0	582.0	503.5	302.1	466.0	1123.1	2550.0	1783.7	1356.9	527.5
82.5°	116.0	167.3	484.7	332.8	169.0	172.4	317.4	542.7	462.6	360.2	162.2
85°	46.1	109.3	332.8	131.4	66.5	42.6	95.6	116.0	95.6	71.6	41.0
87.5°	0.0	25.6	58.0	0.0	5.1	3.4	6.9	8.5	8.5	6.9	13.6
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°	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9	4215.9
2.5°	4234.7	4238.1	4248.3	4250.1	4226.2	4195.4	4183.4	4178.4	4157.9	4156.2	4159.6
5°	4285.9	4301.2	4285.9	4241.6	4135.7	3987.1	3874.5	3782.4	3698.7	3673.1	3657.8
7.5°	4388.3	4403.7	4357.6	4183.4	3917.2	3621.9	3355.6	3167.9	2998.9	2935.8	2910.2
10°	4535.1	4555.6	4410.5	4058.9	3587.8	3113.3	2662.6	2345.2	2097.8	1997.0	1954.4
12.5°	4719.4	4728.0	4439.5	3869.4	3159.4	2481.7	1843.4	1503.8	1283.5	1201.6	1176.0
15°	4922.6	4910.6	4443.0	3611.7	2575.6	1754.6	1203.4	988.3	899.5	872.2	872.2
17.5°	5135.9	5086.4	4374.7	3239.6	1935.6	1199.9	892.7	841.5	826.2	819.3	817.5
20°	5345.9	5234.9	4250.1	2753.1	1389.4	896.1	810.8	795.4	786.9	783.4	780.0
22.5°	5537.0	5347.5	4036.7	2188.2	1008.7	792.0	766.4	752.8	737.4	730.5	728.8
25°	5723.1	5412.4	3736.3	1660.8	807.3	740.8	720.3	694.6	674.2	665.6	662.3
27.5°	5904.0	5453.4	3360.8	1229.0	720.3	693.0	655.4	619.6	604.2	600.9	597.4
30°	6096.9	5467.0	2934.1	916.6	667.4	633.2	578.6	537.6	529.1	530.8	530.8
32.5°	6332.4	5487.5	2504.0	751.0	623.0	561.6	496.7	454.0	447.2	454.0	452.3
35°	6614.0	5528.4	2089.2	691.3	583.7	488.2	418.2	382.3	375.5	380.6	378.9
37.5°	6996.3	5595.1	1701.7	679.4	551.3	426.7	351.6	322.6	322.6	324.3	322.6
40°	7505.0	5772.6	1355.3	670.8	534.2	380.6	296.9	285.1	290.2	293.6	293.6
42.5°	8124.6	6149.8	1121.4	660.5	515.5	360.2	269.7	264.6	273.1	276.5	276.5
45°	8819.3	6627.6	1039.5	643.5	498.4	373.8	257.7	250.9	261.2	262.8	264.6
47.5°	9537.8	7095.4	1029.2	624.7	481.3	394.3	254.3	238.9	250.9	252.7	254.3
50°	10265.0	7400.9	1039.5	595.7	454.0	394.3	256.0	227.0	237.3	242.4	244.1
52.5°	10997.2	7540.8	1032.7	532.5	406.2	370.4	256.0	216.8	227.0	230.4	230.4
55°	11707.2	7513.6	928.5	438.7	344.8	327.7	249.2	208.3	215.0	216.8	216.8
57.5°	12268.8	7132.9	735.6	341.3	279.9	273.1	227.0	198.0	203.2	201.4	201.4
60°	12562.4	6296.6	525.7	262.8	220.2	215.0	199.7	184.3	187.8	179.2	177.5
62.5°	12565.8	5190.5	351.6	208.3	175.8	170.7	170.7	165.5	162.2	145.0	139.9
65°	12297.8	3963.3	233.8	165.5	141.7	133.1	143.4	141.7	129.8	105.8	102.4
67.5°	11690.2	2597.9	177.5	129.8	109.3	104.1	114.4	119.5	110.9	88.8	87.0
70°	10440.8	1512.3	146.8	100.7	81.9	76.8	92.1	102.4	92.1	71.6	68.3
72.5°	8672.5	815.9	119.5	75.1	56.4	51.2	73.4	83.6	73.4	52.9	51.2
75°	5627.5	437.0	92.1	49.5	29.0	32.4	54.6	61.4	51.2	34.1	30.7
77.5°	1889.5	192.9	58.0	23.9	13.6	13.6	32.4	37.5	23.9	12.0	10.2
80°	421.6	80.3	23.9	10.2	5.1	5.1	6.9	6.9	3.4	0.0	0.0
82.5°	138.3	32.4	10.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	52.9	12.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)