

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: P968697

Luminaire Tested: **NAV-SB5C-722-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P968697  
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-SB5C-722-U-T3R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

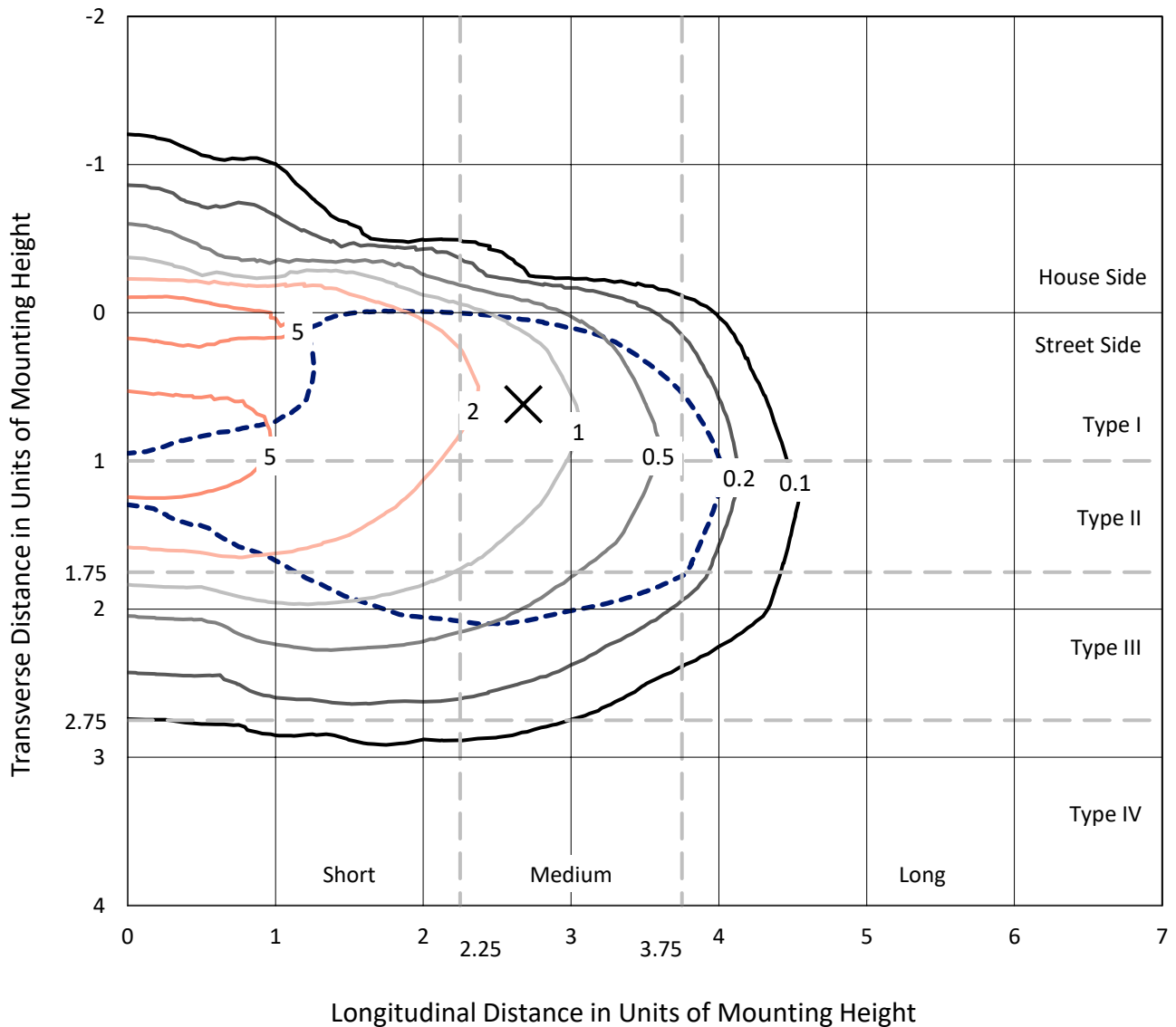
Lumens per Lamp: N/A  
Luminaire Lumens: 26668.4 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): 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

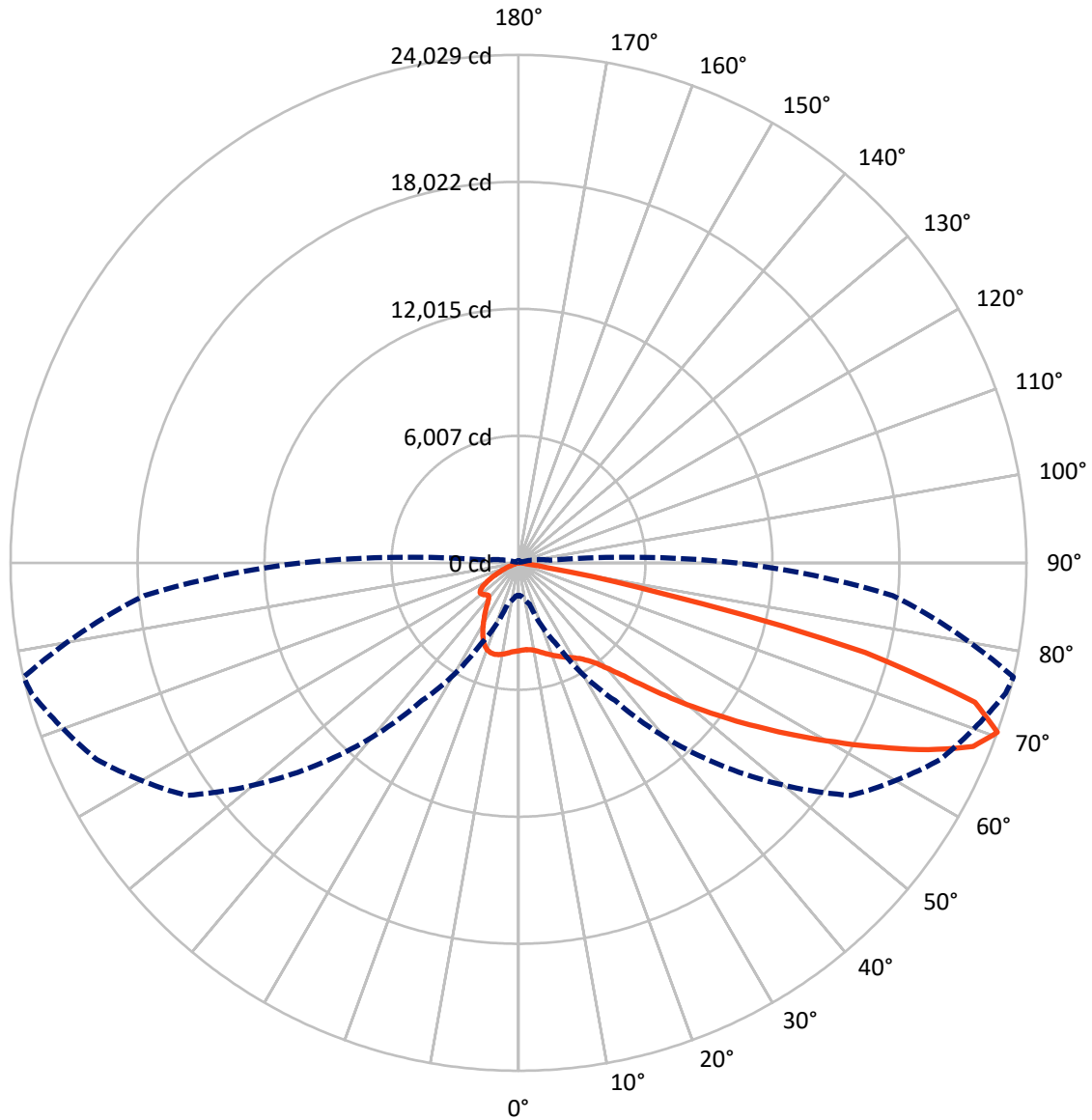
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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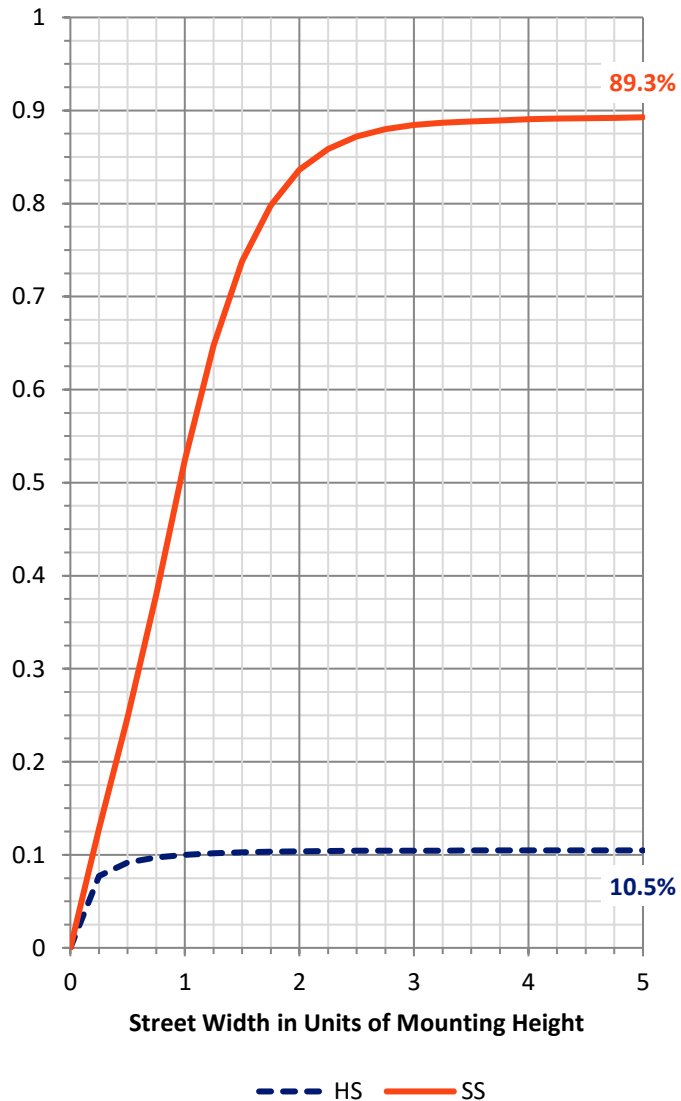
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2811.2	0.0	2811.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	23857.2	0.0	23857.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	26668.4	0.0	26668.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.5	1.3
10°-20°	851.1	3.2
20°-30°	1316.3	4.9
30°-40°	2388.6	9.0
40°-50°	4508.8	16.9
50°-60°	6514.8	24.4
60°-70°	6934.8	26.0
70°-80°	3675.0	13.8
80°-90°	120.7	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°	26668.4	100.0
0°-180°	26668.4	100.0

**Coefficient of Utilization**

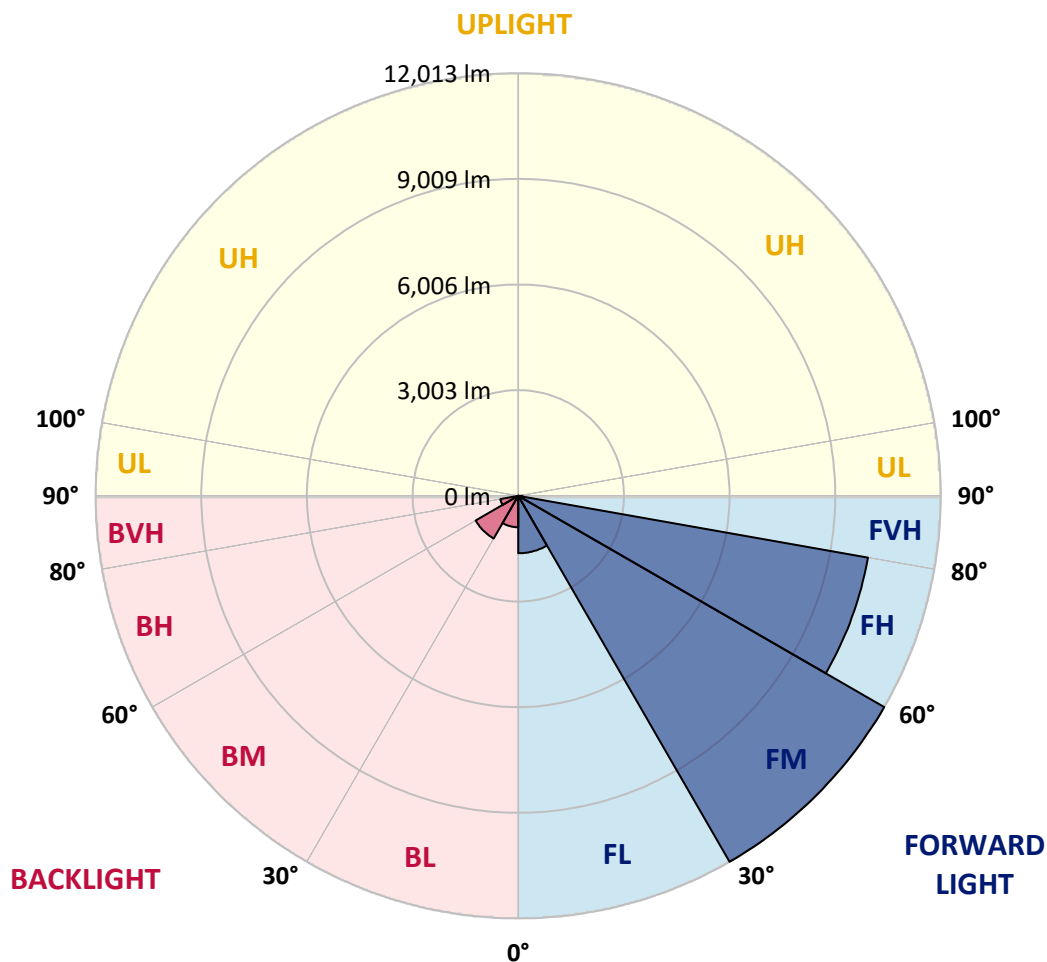


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1632.7	6.1			
FM (30°-60°)	12012.7	45.0			
FH (60°-80°)	10094.4	37.9			G4/12000
FVH (80°-90°)	117.4	0.4			G2/225
BL (0°-30°)	893.2	3.3	B2/1000		
BM (30°-60°)	1399.4	5.2	B2/2500		
BH (60°-80°)	515.4	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.2	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°	4159.8	4159.8	4159.8	4159.8	4159.8	4159.8	4159.8	4159.8	4159.8	4159.8	4159.8
2.5°	3905.5	3940.8	3935.8	3959.4	3967.8	4001.5	4035.2	4080.6	4131.2	4129.5	4163.1
5°	3684.9	3720.2	3728.6	3760.6	3801.1	3853.3	3922.4	4013.3	4107.6	4122.8	4190.1
7.5°	3423.8	3460.9	3482.7	3546.8	3620.9	3728.6	3841.5	3974.5	4131.2	4153.1	4282.8
10°	3162.8	3196.5	3225.1	3316.1	3434.0	3594.0	3777.5	3969.5	4180.1	4212.0	4395.6
12.5°	3001.1	3033.1	3065.2	3144.3	3290.8	3486.1	3735.4	3993.1	4260.8	4306.3	4548.8
15°	2943.9	2972.5	2997.7	3068.4	3204.9	3427.2	3727.0	4041.9	4363.5	4424.2	4734.1
17.5°	2952.3	2967.5	2984.3	3038.2	3171.2	3400.2	3742.2	4126.1	4484.8	4538.7	4919.4
20°	3001.1	3009.5	3011.2	3048.2	3166.1	3396.8	3772.4	4206.9	4599.4	4671.7	5102.9
22.5°	3063.4	3066.8	3063.4	3088.7	3198.2	3422.2	3812.9	4304.6	4727.3	4794.7	5288.2
25°	3354.8	3290.8	3210.0	3161.1	3252.0	3471.0	3873.5	4436.0	4867.1	4932.8	5468.4
27.5°	4259.2	4075.6	3785.9	3460.9	3363.2	3541.7	3957.7	4569.0	5008.6	5067.5	5662.0
30°	5727.7	5486.9	4995.1	4262.6	3720.2	3689.9	4067.2	4702.1	5158.5	5222.5	5869.2
32.5°	7199.6	7140.7	6573.1	5559.3	4523.5	4020.0	4249.0	4882.3	5357.2	5407.7	6148.8
35°	8688.4	8568.8	8104.1	7101.9	5761.4	4691.9	4552.2	5118.0	5618.2	5675.5	6556.3
37.5°	9828.6	9756.2	9468.1	8642.9	7229.9	5729.4	5070.9	5483.5	5997.2	6061.1	7078.3
40°	10835.7	10802.0	10704.3	10160.3	8872.0	7086.8	5877.7	6049.3	6522.6	6598.4	7718.4
42.5°	11627.2	11706.4	11762.0	11610.4	10564.6	8636.2	6962.2	6844.3	7255.3	7332.6	8533.4
45°	12437.2	12464.2	12688.3	12907.1	12245.3	10256.4	8184.8	7775.6	8166.4	8262.3	9510.3
47.5°	12957.6	13065.5	13459.6	13845.2	13658.3	11863.0	9498.5	8875.4	9222.3	9402.5	10605.0
50°	12996.4	13200.2	13742.5	14414.5	14687.3	13392.1	10926.6	10128.3	10497.1	10695.9	11773.8
52.5°	12351.4	12668.0	13508.4	14492.0	15243.1	14687.3	12403.6	11381.3	11854.5	12114.0	12986.3
55°	9469.9	9884.2	12627.6	14070.9	15264.9	15669.2	13841.8	12686.5	13366.9	13660.0	14296.6
57.5°	8250.5	8459.3	9927.9	13340.0	14859.0	16064.9	15142.0	13929.4	15012.4	15376.1	15534.4
60°	6864.5	7139.0	8326.3	12144.2	14308.4	16103.7	16290.5	15532.7	16795.9	17205.0	16669.5
62.5°	4665.1	4963.2	6143.7	10089.6	13555.5	16085.1	17232.0	17183.2	18778.0	19217.6	17631.1
65°	2890.0	3076.9	3854.9	8238.7	12502.9	16105.3	18217.2	19187.3	20869.7	21316.0	18375.5
67.5°	2283.7	2369.6	2775.4	6325.6	10689.2	15650.6	19200.7	21071.8	22838.4	23192.2	18602.9
70°	1534.2	1586.5	2019.2	4240.6	7952.5	13552.1	19182.3	22018.3	23852.3	24029.2	17774.3
72.5°	808.4	848.8	1180.6	1963.7	4803.2	9633.3	16169.3	20886.5	22843.6	22577.5	15192.6
75°	404.2	471.6	794.9	997.0	2051.2	5372.3	10040.8	16467.4	17979.7	16949.1	9747.8
77.5°	306.5	370.5	656.8	656.8	714.1	1808.7	4252.4	8981.5	8284.3	6898.1	2861.3
80°	195.4	252.7	574.3	496.8	298.1	459.8	1108.1	2516.1	1759.9	1338.9	520.4
82.5°	114.5	165.0	478.3	328.4	166.8	170.0	313.2	535.6	456.4	355.4	160.0
85°	45.5	107.8	328.4	129.7	65.7	42.1	94.3	114.5	94.3	70.7	40.4
87.5°	0.0	25.2	57.3	0.0	5.0	3.4	6.8	8.4	8.4	6.8	13.4
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°	4159.8	4159.8	4159.8	4159.8	4159.8	4159.8	4159.8	4159.8	4159.8	4159.8	4159.8
2.5°	4178.3	4181.7	4191.8	4193.5	4169.9	4139.6	4127.8	4122.8	4102.6	4100.8	4104.2
5°	4228.8	4244.0	4228.8	4185.1	4080.6	3934.2	3822.9	3732.0	3649.5	3624.2	3609.1
7.5°	4329.9	4345.1	4299.6	4127.8	3865.1	3573.8	3311.0	3125.7	2959.0	2896.6	2871.4
10°	4474.7	4494.9	4351.7	4004.9	3540.0	3071.8	2627.3	2314.0	2069.8	1970.5	1928.3
12.5°	4656.6	4665.1	4380.4	3817.9	3117.3	2448.7	1818.9	1483.7	1266.5	1185.6	1160.4
15°	4857.1	4845.3	4383.8	3563.6	2541.4	1731.3	1187.4	975.1	887.5	860.6	860.6
17.5°	5067.5	5018.7	4316.4	3196.5	1909.8	1184.0	880.8	830.2	815.1	808.4	806.7
20°	5274.6	5165.2	4193.5	2716.5	1370.8	884.2	799.9	784.8	776.3	773.1	769.7
22.5°	5463.4	5276.4	3982.9	2159.1	995.3	781.5	756.1	742.7	727.5	720.8	719.1
25°	5646.9	5340.4	3686.5	1638.7	796.6	730.9	710.7	685.4	665.2	656.8	653.4
27.5°	5825.4	5380.8	3316.1	1212.6	710.7	683.8	646.7	611.3	596.1	592.9	589.5
30°	6015.7	5394.3	2895.0	904.4	658.5	624.8	570.9	530.5	522.0	523.8	523.8
32.5°	6248.1	5414.5	2470.7	741.0	614.7	554.1	490.1	448.0	441.3	448.0	446.3
35°	6526.0	5454.8	2061.4	682.0	575.9	481.6	412.6	377.2	370.5	375.6	373.9
37.5°	6903.3	5520.5	1679.1	670.2	544.0	421.1	347.0	318.3	318.3	320.0	318.3
40°	7405.1	5695.7	1337.2	661.8	527.2	375.6	293.0	281.3	286.3	289.7	289.7
42.5°	8016.4	6067.9	1106.5	651.8	508.6	355.4	266.1	261.1	269.5	272.9	272.9
45°	8701.8	6539.5	1025.6	634.9	491.8	368.8	254.3	247.5	257.7	259.3	261.1
47.5°	9410.9	7001.0	1015.6	616.4	474.9	389.0	250.9	235.7	247.5	249.3	250.9
50°	10128.3	7302.4	1025.6	587.7	448.0	389.0	252.7	224.0	234.1	239.1	240.9
52.5°	10850.9	7440.5	1018.8	525.4	400.8	365.4	252.7	213.9	224.0	227.3	227.3
55°	11551.4	7413.5	916.1	432.9	340.2	323.4	245.9	205.5	212.2	213.9	213.9
57.5°	12105.6	7038.0	725.9	336.8	276.2	269.5	224.0	195.4	200.4	198.7	198.7
60°	12395.2	6212.7	518.8	259.3	217.3	212.2	197.0	181.8	185.2	176.8	175.2
62.5°	12398.5	5121.4	347.0	205.5	173.4	168.4	168.4	163.4	160.0	143.2	138.1
65°	12134.2	3910.6	230.7	163.4	139.8	131.4	141.4	139.8	128.0	104.4	101.1
67.5°	11534.6	2563.2	175.2	128.0	107.8	102.7	112.9	117.9	109.5	87.5	85.9
70°	10301.8	1492.1	144.8	99.3	80.9	75.7	90.9	101.1	90.9	70.7	67.3
72.5°	8557.0	805.0	117.9	74.1	55.6	50.5	72.5	82.5	72.5	52.2	50.5
75°	5552.5	431.1	90.9	48.8	28.6	32.0	53.9	60.6	50.5	33.7	30.3
77.5°	1864.4	190.3	57.3	23.6	13.4	13.4	32.0	37.0	23.6	11.8	10.1
80°	415.9	79.1	23.6	10.1	5.0	5.0	6.8	6.8	3.4	0.0	0.0
82.5°	136.4	32.0	10.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	52.2	11.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.2	1.6	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)