

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: P969751

Luminaire Tested: **NAV-SB6A-722-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969751  
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-SB6A-722-U-T3R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

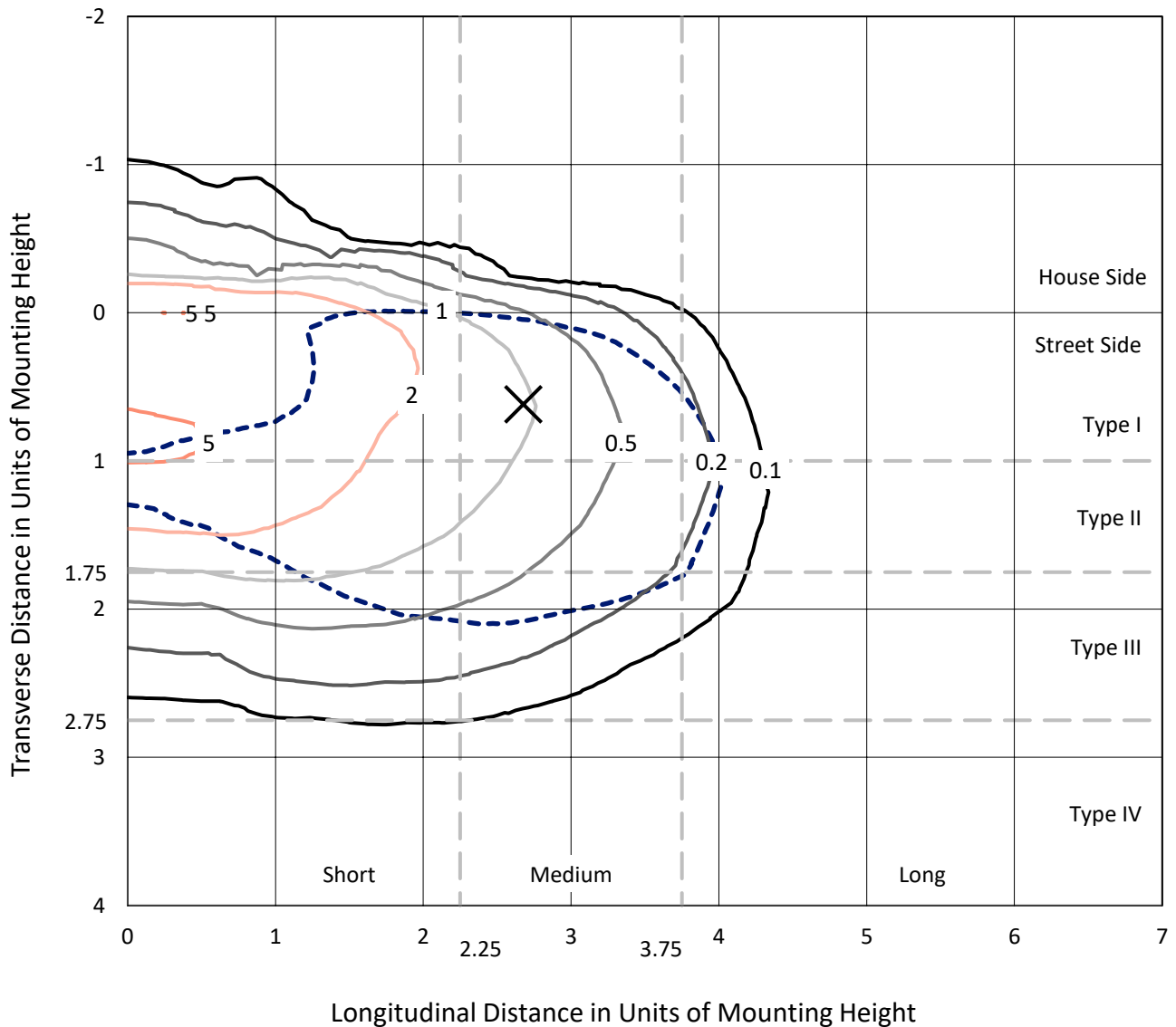
Lumens per Lamp: N/A  
Luminaire Lumens: 19175.7 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): 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

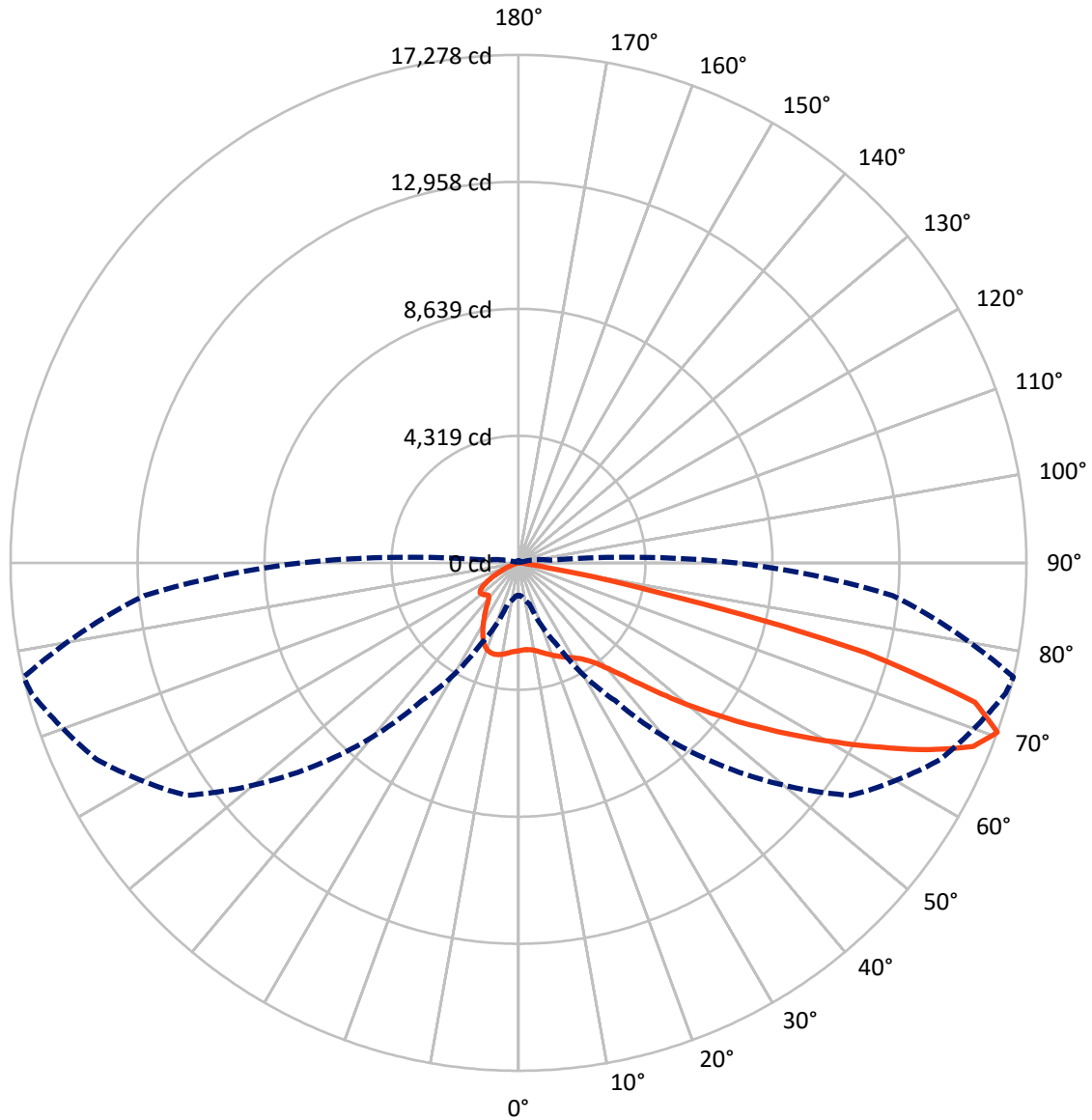
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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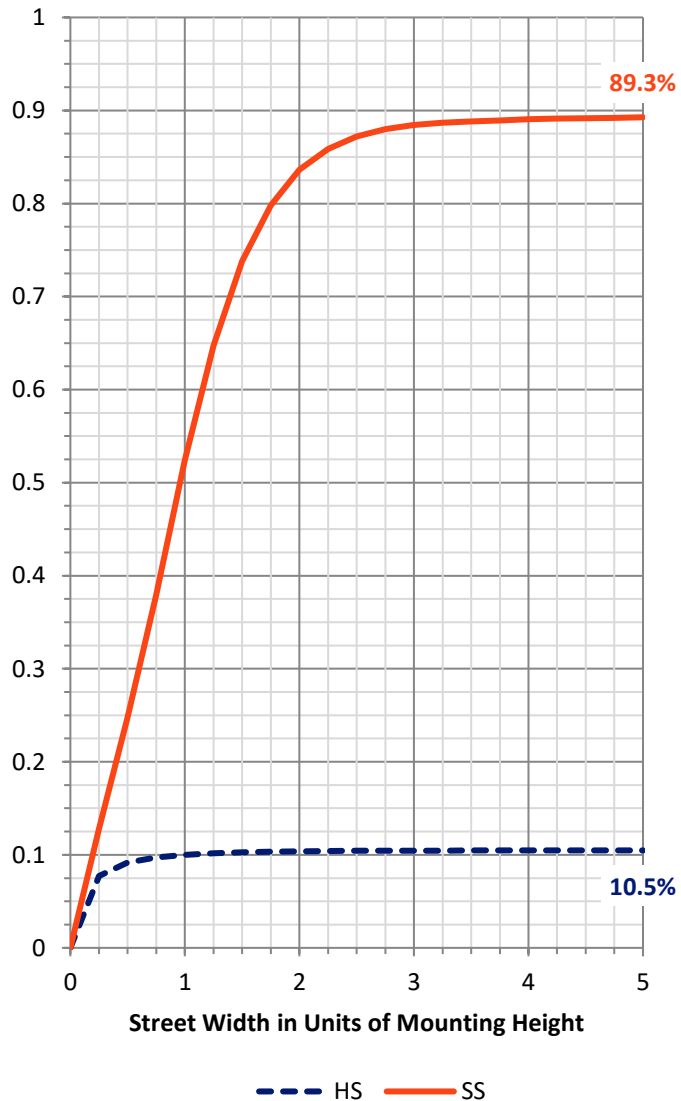
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2021.4	0.0	2021.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	17154.3	0.0	17154.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	19175.7	0.0	19175.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.8	1.3
10°-20°	611.9	3.2
20°-30°	946.5	4.9
30°-40°	1717.5	9.0
40°-50°	3242.0	16.9
50°-60°	4684.4	24.4
60°-70°	4986.4	26.0
70°-80°	2642.4	13.8
80°-90°	86.8	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°	19175.7	100.0
0°-180°	19175.7	100.0

**Coefficient of Utilization**

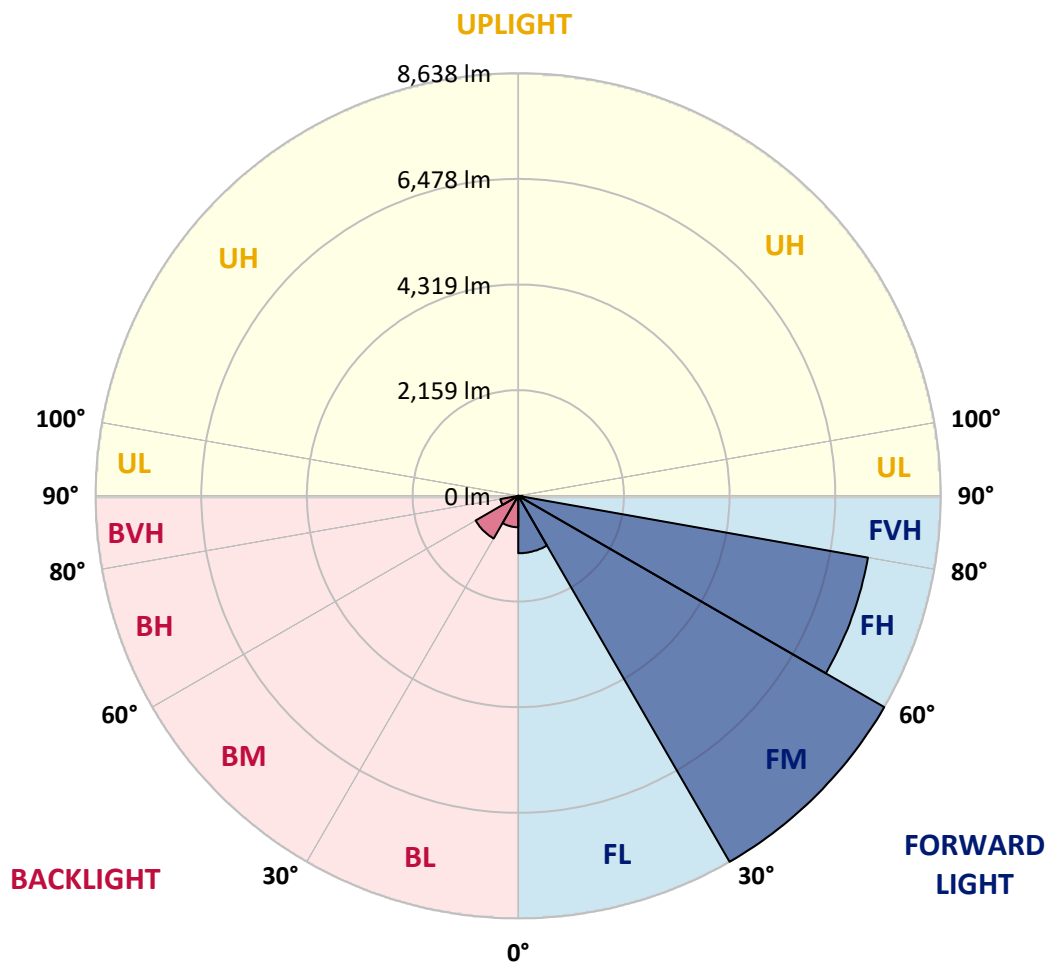


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1174.0	6.1			
FM (30°-60°)	8637.6	45.0			
FH (60°-80°)	7258.3	37.9			G3/7500
FVH (80°-90°)	84.4	0.4			G1/100
BL (0°-30°)	642.2	3.3	B2/1000		
BM (30°-60°)	1006.3	5.2	B2/2500		
BH (60°-80°)	370.6	1.9	B1/500		G1/500
BVH (80°-90°)	2.3	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-G3**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2991.1	2991.1	2991.1	2991.1	2991.1	2991.1	2991.1	2991.1	2991.1	2991.1	2991.1
2.5°	2808.2	2833.6	2830.0	2846.9	2853.0	2877.3	2901.5	2934.2	2970.4	2969.2	2993.5
5°	2649.5	2675.0	2681.1	2704.1	2733.2	2770.7	2820.3	2885.7	2953.5	2964.4	3012.9
7.5°	2461.8	2488.5	2504.3	2550.3	2603.6	2681.1	2762.2	2857.9	2970.4	2986.2	3079.5
10°	2274.2	2298.4	2319.0	2384.4	2469.1	2584.2	2716.1	2854.2	3005.6	3028.6	3160.6
12.5°	2157.9	2180.9	2204.0	2260.8	2366.2	2506.6	2685.9	2871.1	3063.7	3096.4	3270.8
15°	2116.7	2137.3	2155.5	2206.3	2304.4	2464.3	2679.9	2906.3	3137.6	3181.2	3404.0
17.5°	2122.8	2133.7	2145.8	2184.6	2280.2	2444.9	2690.7	2966.9	3224.8	3263.5	3537.2
20°	2157.9	2164.0	2165.2	2191.9	2276.6	2442.5	2712.6	3025.0	3307.2	3359.2	3669.2
22.5°	2202.7	2205.2	2202.7	2220.9	2299.6	2460.6	2741.6	3095.2	3399.1	3447.6	3802.4
25°	2412.2	2366.2	2308.1	2272.9	2338.3	2495.8	2785.2	3189.7	3499.7	3546.9	3932.0
27.5°	3062.5	2930.5	2722.2	2488.5	2418.3	2546.6	2845.7	3285.3	3601.3	3643.8	4071.2
30°	4118.4	3945.3	3591.7	3065.0	2675.0	2653.2	2924.4	3381.0	3709.2	3755.2	4220.2
32.5°	5176.9	5134.4	4726.4	3997.4	3252.6	2890.6	3055.2	3510.5	3852.1	3888.3	4421.2
35°	6247.4	6161.4	5827.1	5106.7	4142.6	3373.7	3273.2	3680.1	4039.7	4080.9	4714.3
37.5°	7067.2	7015.1	6807.9	6214.7	5198.6	4119.7	3646.2	3942.9	4312.2	4358.2	5089.6
40°	7791.3	7767.0	7696.8	7305.7	6379.3	5095.7	4226.3	4349.8	4690.0	4744.5	5549.9
42.5°	8360.4	8417.4	8457.3	8348.3	7596.4	6209.8	5006.1	4921.3	5216.8	5272.5	6136.0
45°	8942.9	8962.3	9123.3	9280.8	8804.9	7374.8	5885.2	5591.0	5871.9	5941.0	6838.3
47.5°	9317.1	9394.6	9677.9	9955.3	9820.8	8529.9	6829.8	6381.8	6631.2	6760.8	7625.4
50°	9344.9	9491.5	9881.4	10364.6	10560.8	9629.6	7856.7	7282.7	7547.9	7690.8	8465.8
52.5°	8881.1	9108.8	9713.1	10420.3	10960.3	10560.8	8918.7	8183.6	8523.9	8710.4	9337.6
55°	6809.2	7107.1	9079.8	10117.6	10976.1	11266.7	9952.9	9122.1	9611.3	9822.1	10279.8
57.5°	5932.5	6082.7	7138.6	9591.9	10684.3	11551.3	10887.8	10015.8	10794.5	11056.1	11169.8
60°	4935.9	5133.2	5986.9	8732.2	10288.3	11579.1	11713.6	11168.6	12076.9	12371.1	11986.0
62.5°	3354.3	3568.6	4417.5	7254.8	9747.0	11565.9	12390.5	12355.3	13502.1	13818.2	12677.5
65°	2078.0	2212.5	2771.9	5924.0	8990.2	11580.3	13098.9	13796.4	15006.2	15327.0	13212.8
67.5°	1642.0	1703.9	1995.7	4548.3	7686.0	11253.4	13806.1	15151.4	16421.8	16676.1	13376.2
70°	1103.2	1140.7	1451.9	3049.2	5718.2	9744.6	13792.8	15832.0	17150.8	17277.9	12780.4
72.5°	581.3	610.3	848.9	1411.9	3453.6	6926.6	11626.4	15018.3	16425.4	16234.1	10924.0
75°	290.6	339.1	571.5	716.9	1475.0	3862.9	7219.7	11840.7	12928.2	12187.0	7009.1
77.5°	220.4	266.4	472.3	472.3	513.4	1300.5	3057.7	6458.0	5956.7	4960.1	2057.4
80°	140.4	181.6	413.0	357.2	214.3	330.6	796.8	1809.1	1265.5	962.7	374.2
82.5°	82.3	118.7	343.9	236.2	119.9	122.3	225.2	385.1	328.2	255.5	115.0
85°	32.7	77.5	236.2	93.3	47.3	30.2	67.9	82.3	67.9	50.8	29.1
87.5°	0.0	18.1	41.2	0.0	3.6	2.5	4.8	6.0	6.0	4.8	9.7
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°	2991.1	2991.1	2991.1	2991.1	2991.1	2991.1	2991.1	2991.1	2991.1	2991.1	2991.1
2.5°	3004.4	3006.8	3014.1	3015.2	2998.3	2976.5	2968.1	2964.4	2949.8	2948.7	2951.1
5°	3040.7	3051.6	3040.7	3009.2	2934.2	2828.8	2748.8	2683.4	2624.1	2606.0	2595.1
7.5°	3113.3	3124.3	3091.6	2968.1	2779.2	2569.7	2380.8	2247.5	2127.7	2082.8	2064.7
10°	3217.5	3232.0	3129.1	2879.6	2545.4	2208.8	1889.1	1663.9	1488.3	1416.9	1386.5
12.5°	3348.3	3354.3	3149.7	2745.3	2241.5	1760.7	1307.8	1066.8	910.6	852.5	834.4
15°	3492.4	3483.9	3152.1	2562.4	1827.4	1244.9	853.7	701.1	638.2	618.8	618.8
17.5°	3643.8	3608.6	3103.7	2298.4	1373.2	851.3	633.3	597.0	586.1	581.3	580.0
20°	3792.7	3714.0	3015.2	1953.2	985.7	635.7	575.2	564.3	558.2	555.9	553.4
22.5°	3928.3	3793.9	2864.0	1552.5	715.7	561.9	543.8	534.0	523.2	518.2	517.1
25°	4060.3	3840.0	2650.8	1178.2	572.8	525.5	511.1	492.8	478.4	472.3	469.9
27.5°	4188.7	3869.0	2384.4	871.9	511.1	491.7	465.0	439.6	428.7	426.3	423.8
30°	4325.5	3878.7	2081.7	650.3	473.4	449.3	410.5	381.4	375.4	376.6	376.6
32.5°	4492.7	3893.3	1776.4	532.8	442.0	398.4	352.4	322.2	317.2	322.2	320.9
35°	4692.4	3922.3	1482.3	490.5	414.1	346.3	296.6	271.2	266.4	270.1	268.9
37.5°	4963.7	3969.5	1207.3	482.0	391.1	302.8	249.5	228.9	228.9	230.1	228.9
40°	5324.6	4095.5	961.4	475.9	379.0	270.1	210.7	202.2	205.8	208.3	208.3
42.5°	5764.2	4363.1	795.6	468.6	365.7	255.5	191.4	187.7	193.7	196.2	196.2
45°	6257.0	4702.2	737.5	456.5	353.6	265.2	182.9	178.0	185.3	186.4	187.7
47.5°	6766.8	5034.0	730.2	443.2	341.5	279.7	180.4	169.5	178.0	179.3	180.4
50°	7282.7	5250.7	737.5	422.6	322.2	279.7	181.6	161.0	168.3	172.0	173.1
52.5°	7802.2	5350.0	732.7	377.8	288.2	262.8	181.6	153.8	161.0	163.5	163.5
55°	8306.0	5330.6	658.8	311.2	244.6	232.5	176.8	147.7	152.6	153.8	153.8
57.5°	8704.4	5060.6	521.9	242.2	198.6	193.7	161.0	140.4	144.1	142.9	142.9
60°	8912.7	4467.3	373.0	186.4	156.2	152.6	141.7	130.8	133.2	127.1	126.0
62.5°	8915.0	3682.5	249.5	147.7	124.7	121.1	121.1	117.5	115.0	102.9	99.3
65°	8724.9	2811.9	165.9	117.5	100.6	94.5	101.7	100.6	92.0	75.0	72.7
67.5°	8293.9	1843.1	126.0	92.0	77.5	73.9	81.2	84.8	78.7	62.9	61.8
70°	7407.5	1072.9	104.1	71.4	58.1	54.5	65.4	72.7	65.4	50.8	48.5
72.5°	6152.9	578.8	84.8	53.3	40.0	36.3	52.1	59.3	52.1	37.5	36.3
75°	3992.5	310.0	65.4	35.2	20.6	23.0	38.7	43.6	36.3	24.2	21.8
77.5°	1340.5	136.8	41.2	16.9	9.7	9.7	23.0	26.6	16.9	8.5	7.3
80°	299.1	56.9	16.9	7.3	3.6	3.6	4.8	4.8	2.5	0.0	0.0
82.5°	98.1	23.0	7.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.5	8.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.6	1.2	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)