

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: P883399

Luminaire Tested: **NAV-SB3D-722-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883399  
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-SB3D-722-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

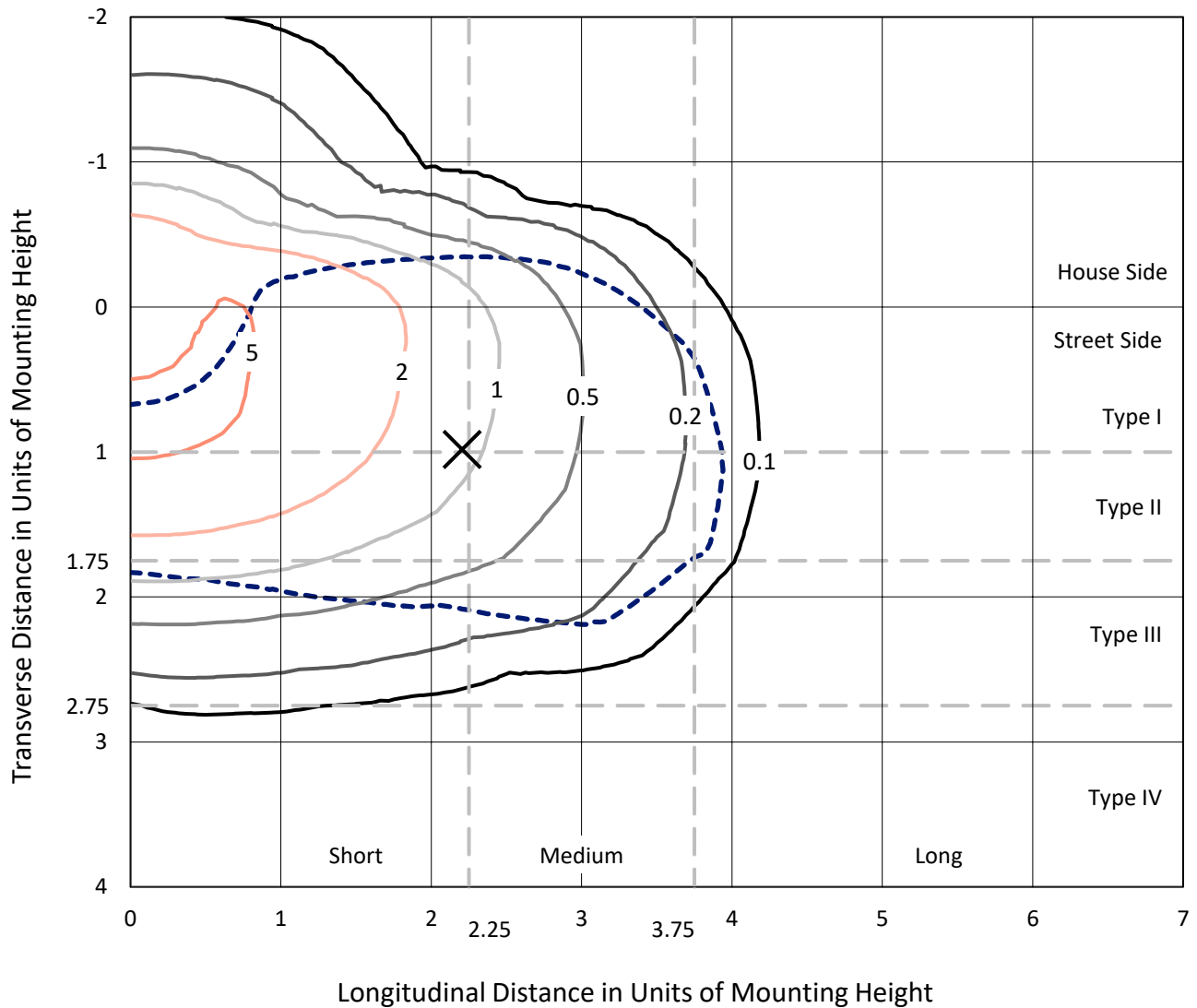
Lumens per Lamp: N/A  
Luminaire Lumens: 24339 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.84  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P883399  
 CATALOG NUMBER: NAV-SB3D-722-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

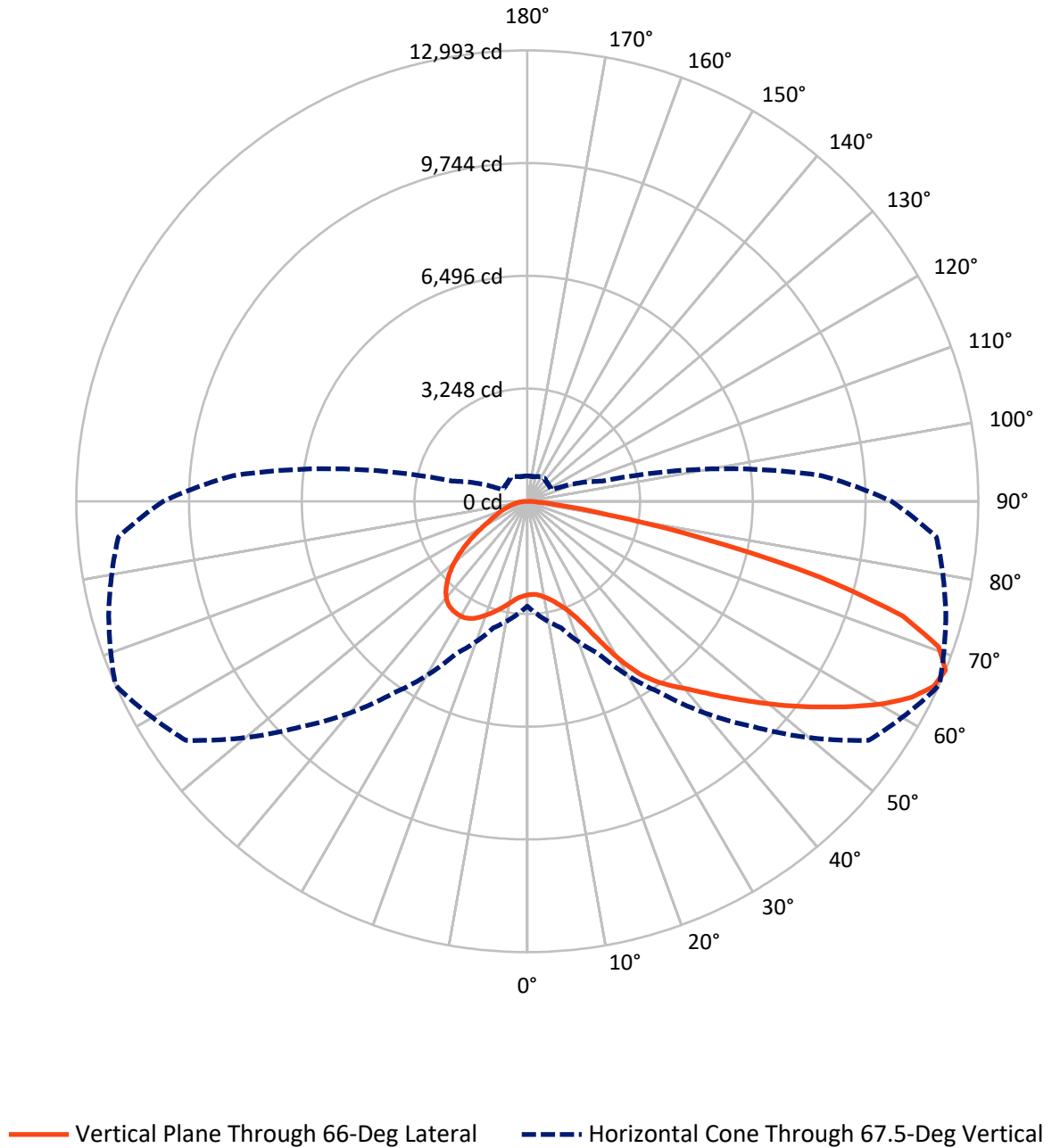
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P883399  
CATALOG NUMBER: NAV-SB3D-722-U-T3

### Luminous Intensity Polar Plot



REPORT NUMBER: P883399  
 CATALOG NUMBER: NAV-SB3D-722-U-T3

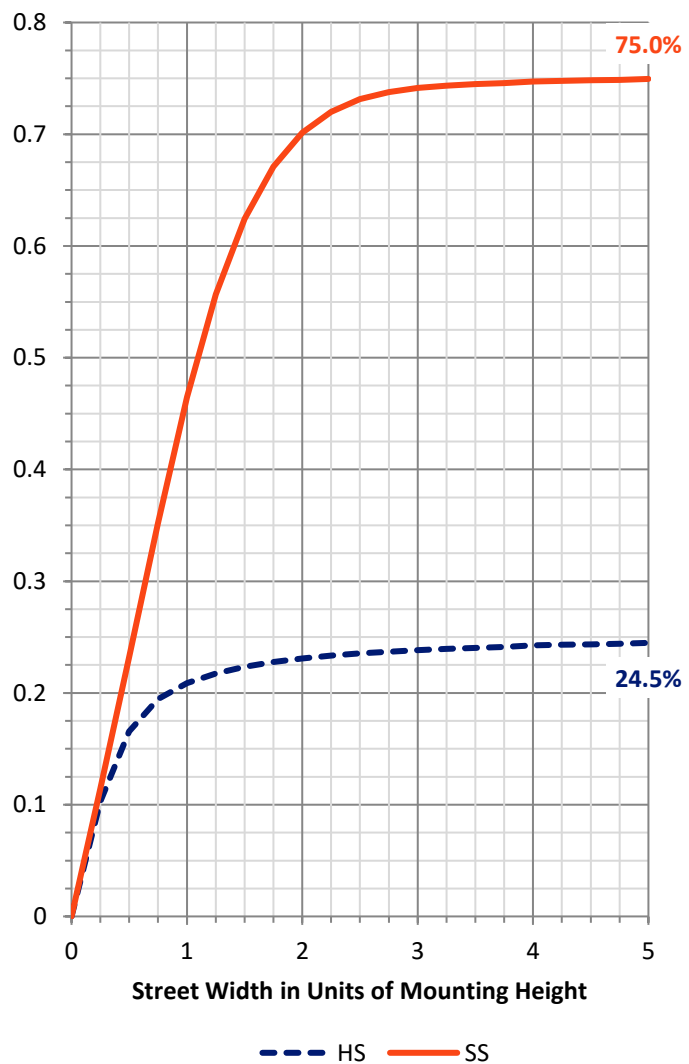
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6051.8	0.0	6051.8
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	18287.2	0.0	18287.2
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	24339.0	0.0	24339.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.6	1.1
10°-20°	884.3	3.6
20°-30°	1704.4	7.0
30°-40°	2988.4	12.3
40°-50°	4442.8	18.3
50°-60°	5631.7	23.1
60°-70°	5510.4	22.6
70°-80°	2628.5	10.8
80°-90°	280.9	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°	24339.0	100.0
0°-180°	24339.0	100.0

**Coefficient of Utilization**

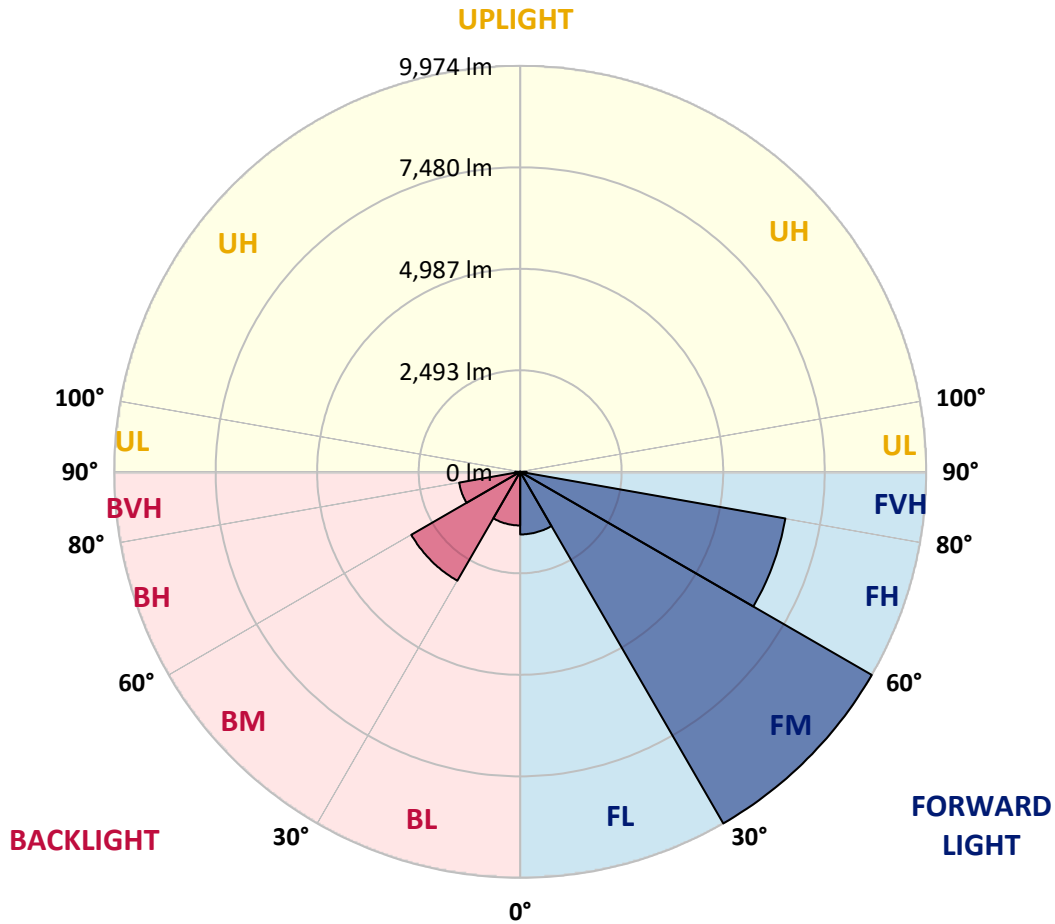


REPORT NUMBER: P883399  
 CATALOG NUMBER: NAV-SB3D-722-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1538.0	6.3			
FM (30°-60°)	9973.9	41.0			
FH (60°-80°)	6616.0	27.2			G3/7500
FVH (80°-90°)	159.3	0.7			G2/225
BL (0°-30°)	1318.3	5.4	B3/2500		
BM (30°-60°)	3088.9	12.7	B3/5000		
BH (60°-80°)	1523.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	121.6	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



REPORT NUMBER: P883399

CATALOG NUMBER: NAV-SB3D-722-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5
2.5°	2671.4	2686.7	2682.9	2676.5	2675.2	2677.8	2681.6	2685.5	2684.2	2690.6	2700.8
5°	2663.7	2679.1	2677.8	2677.8	2682.9	2693.1	2699.5	2705.9	2699.5	2707.2	2721.3
7.5°	2668.8	2680.3	2685.5	2690.6	2703.4	2722.5	2737.9	2751.9	2744.3	2753.2	2771.1
10°	2734.0	2743.0	2748.1	2748.1	2757.1	2778.8	2794.1	2819.7	2813.3	2827.4	2850.4
12.5°	2853.0	2861.9	2861.9	2856.8	2863.2	2877.3	2882.4	2910.5	2899.0	2922.0	2945.0
15°	2998.8	3016.7	3002.6	2993.6	2996.2	3010.3	3009.0	3030.7	3019.2	3038.4	3058.9
17.5°	3159.9	3182.9	3159.9	3158.6	3153.5	3168.8	3170.1	3189.3	3168.8	3182.9	3197.0
20°	3350.4	3382.4	3363.2	3369.6	3358.1	3364.5	3370.9	3399.0	3367.0	3377.3	3373.4
22.5°	3619.0	3657.3	3636.9	3661.2	3653.5	3648.4	3647.1	3697.0	3647.1	3650.9	3613.8
25°	4010.3	4056.3	4020.5	4053.8	4053.8	4070.4	4089.6	4153.5	4070.4	4046.1	3950.2
27.5°	4588.3	4634.3	4564.0	4584.4	4578.1	4619.0	4598.5	4757.1	4667.6	4627.9	4434.8
30°	5283.9	5365.8	5232.8	5227.7	5221.3	5286.5	5315.9	5420.8	5330.0	5290.3	5057.6
32.5°	6035.9	6121.5	5963.0	5916.9	5892.6	5932.3	5908.0	5992.4	5929.7	5868.3	5580.6
35°	6831.3	6915.7	6764.8	6675.3	6578.1	6495.0	6408.0	6429.7	6370.9	6277.6	5979.6
37.5°	7583.2	7737.9	7578.1	7482.2	7303.1	7140.7	6897.8	6796.7	6741.8	6656.1	6355.6
40°	8349.2	8437.4	8315.9	8234.1	8039.7	7785.2	7396.5	7182.9	7108.8	7025.6	6771.2
42.5°	8913.1	8997.5	8932.3	8876.1	8723.9	8428.5	7925.9	7658.6	7551.2	7457.9	7241.8
45°	9360.7	9423.4	9382.5	9402.9	9337.7	9051.2	8474.5	8168.9	8057.6	7943.8	7773.7
47.5°	9541.0	9607.5	9672.7	9794.2	9905.5	9694.5	9064.0	8721.3	8603.7	8487.3	8319.8
50°	9520.6	9588.3	9777.6	10035.9	10381.2	10310.8	9685.5	9309.6	9200.9	9067.9	8913.1
52.5°	9356.9	9433.6	9676.6	10106.2	10656.1	10772.5	10318.5	9917.0	9814.7	9656.1	9501.4
55°	8927.2	8973.2	9337.7	9946.4	10721.3	11094.7	10938.7	10564.0	10461.7	10240.5	10071.7
57.5°	8130.5	8197.0	8727.7	9515.4	10557.7	11313.4	11483.5	11244.4	11145.9	10827.5	10651.0
60°	7090.9	7197.0	7804.4	8791.7	10140.8	11312.1	11978.4	11913.2	11831.3	11405.5	11221.3
62.5°	5914.4	6037.1	6621.6	7768.6	9411.9	10991.2	12287.9	12473.3	12431.1	11938.7	11703.4
65°	4542.2	4626.6	5208.5	6445.1	8277.6	10301.9	12323.7	12855.6	12863.3	12344.1	11955.4
67.5°	3024.3	3267.3	3772.4	4836.4	6758.4	9175.3	12009.1	12918.3	12992.5	12483.5	11828.8
70°	1475.7	1795.4	2290.3	3143.3	4836.4	7447.6	11186.8	12404.2	12569.2	12076.9	11074.3
72.5°	612.5	716.1	985.9	1551.2	2776.2	5025.6	9534.6	11010.3	11316.0	10700.9	9310.8
75°	413.0	447.6	563.9	795.4	1264.7	2478.3	6876.0	8209.8	8702.1	8081.9	6606.2
77.5°	318.4	340.2	410.5	556.3	751.9	937.3	3680.3	4947.6	5202.1	4815.9	3437.4
80°	250.6	267.3	306.9	405.4	533.3	501.3	1254.5	2241.7	2388.8	2003.9	1104.9
82.5°	217.4	223.8	220.0	274.9	354.2	292.8	411.8	827.4	913.1	662.4	360.6
85°	157.3	175.2	182.9	170.1	188.0	148.3	168.8	292.8	322.3	287.7	203.3
87.5°	63.9	94.6	116.4	110.0	69.1	42.2	52.4	85.7	98.5	107.4	66.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P883399  
 CATALOG NUMBER: NAV-SB3D-722-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5	2699.5
2.5°	2702.1	2711.0	2717.4	2725.1	2730.2	2737.9	2753.2	2762.2	2763.5	2769.8	2768.6
5°	2726.4	2739.2	2753.2	2773.7	2796.7	2815.9	2845.3	2865.8	2873.4	2879.8	2878.5
7.5°	2778.8	2796.7	2822.3	2858.1	2891.3	2916.9	2952.7	2977.0	3001.3	3010.3	3011.5
10°	2856.8	2882.4	2919.5	2968.1	3003.9	3037.1	3074.2	3094.7	3119.0	3129.2	3134.3
12.5°	2954.0	2980.8	3029.4	3097.2	3130.5	3153.5	3166.3	3161.2	3166.3	3175.2	3177.8
15°	3065.2	3094.7	3149.6	3222.5	3245.6	3225.1	3197.0	3171.4	3167.6	3170.1	3179.1
17.5°	3197.0	3218.7	3282.6	3344.0	3327.4	3243.0	3181.6	3140.7	3120.2	3113.8	3122.8
20°	3381.1	3381.1	3433.5	3471.9	3360.6	3217.4	3121.5	3055.0	3012.8	2994.9	2991.1
22.5°	3604.9	3584.4	3617.7	3590.8	3354.3	3145.8	3012.8	2897.7	2833.8	2808.2	2804.4
25°	3888.8	3864.5	3855.5	3689.3	3308.2	3032.0	2815.9	2676.5	2620.2	2606.2	2608.7
27.5°	4317.2	4255.8	4139.4	3743.0	3223.8	2853.0	2585.7	2456.5	2424.6	2425.9	2429.7
30°	4887.5	4764.8	4479.6	3752.0	3085.7	2599.8	2350.4	2258.3	2243.0	2249.4	2271.1
32.5°	5415.7	5299.3	4827.4	3711.0	2873.4	2351.7	2139.4	2078.0	2055.0	2062.7	2072.9
35°	5830.0	5798.0	5149.7	3653.5	2612.6	2118.9	1950.1	1897.7	1853.0	1842.7	1850.4
37.5°	6221.3	6208.5	5391.4	3572.9	2354.2	1954.0	1798.0	1728.9	1663.7	1627.9	1629.2
40°	6651.0	6638.2	5549.9	3448.9	2125.3	1810.8	1661.1	1570.3	1489.8	1424.6	1431.0
42.5°	7134.3	7058.9	5625.4	3271.1	1931.0	1689.3	1549.9	1427.1	1321.0	1260.9	1264.7
45°	7662.5	7492.4	5624.1	3044.8	1767.3	1578.0	1431.0	1257.0	1158.6	1102.3	1099.8
47.5°	8222.6	7906.7	5555.0	2794.1	1608.7	1455.3	1246.8	1113.8	1048.6	1014.1	1006.4
50°	8800.6	8294.2	5437.4	2506.4	1446.3	1315.9	1131.7	1040.9	991.1	959.1	947.6
52.5°	9344.1	8645.9	5295.5	2180.3	1281.3	1180.3	1080.6	1010.2	957.8	922.0	906.7
55°	9849.2	8948.9	5094.7	1846.6	1147.1	1089.5	1056.3	997.5	937.3	895.2	878.5
57.5°	10298.1	9145.9	4748.1	1533.3	1051.2	1026.9	1030.7	975.7	906.7	870.9	847.8
60°	10671.5	9290.4	4235.3	1243.0	973.2	965.5	991.1	934.8	854.2	813.3	795.4
62.5°	10895.3	9287.8	3606.2	1017.9	906.7	909.2	938.6	883.6	801.8	763.4	751.9
65°	10876.1	9060.2	2915.6	870.9	842.7	845.3	883.6	827.4	758.3	735.3	734.0
67.5°	10491.2	8505.2	2236.6	774.9	772.4	783.9	828.7	789.0	731.5	728.9	732.7
70°	9448.9	7353.0	1611.3	698.2	699.5	716.1	774.9	764.7	717.4	722.5	721.2
72.5°	7576.8	5606.2	1081.9	617.7	618.9	645.8	723.8	745.5	703.3	771.1	781.3
75°	5046.1	3496.2	695.7	532.0	533.3	567.8	679.0	708.4	665.0	768.6	774.9
77.5°	2424.6	1571.6	503.8	447.6	447.6	479.5	587.0	634.3	566.5	597.2	547.3
80°	837.6	590.8	396.4	360.6	352.9	374.7	494.9	549.9	488.5	450.1	422.0
82.5°	329.9	306.9	318.4	280.1	254.5	268.5	384.9	454.0	359.3	324.8	323.5
85°	189.3	199.5	225.1	185.4	147.1	165.0	282.6	326.1	271.1	239.1	244.2
87.5°	51.2	70.3	103.6	95.9	66.5	70.3	134.3	180.3	156.0	120.2	124.0
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)