

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: P964478

Luminaire Tested: **NAV-SB3C-722-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3C-722-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19281.3 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

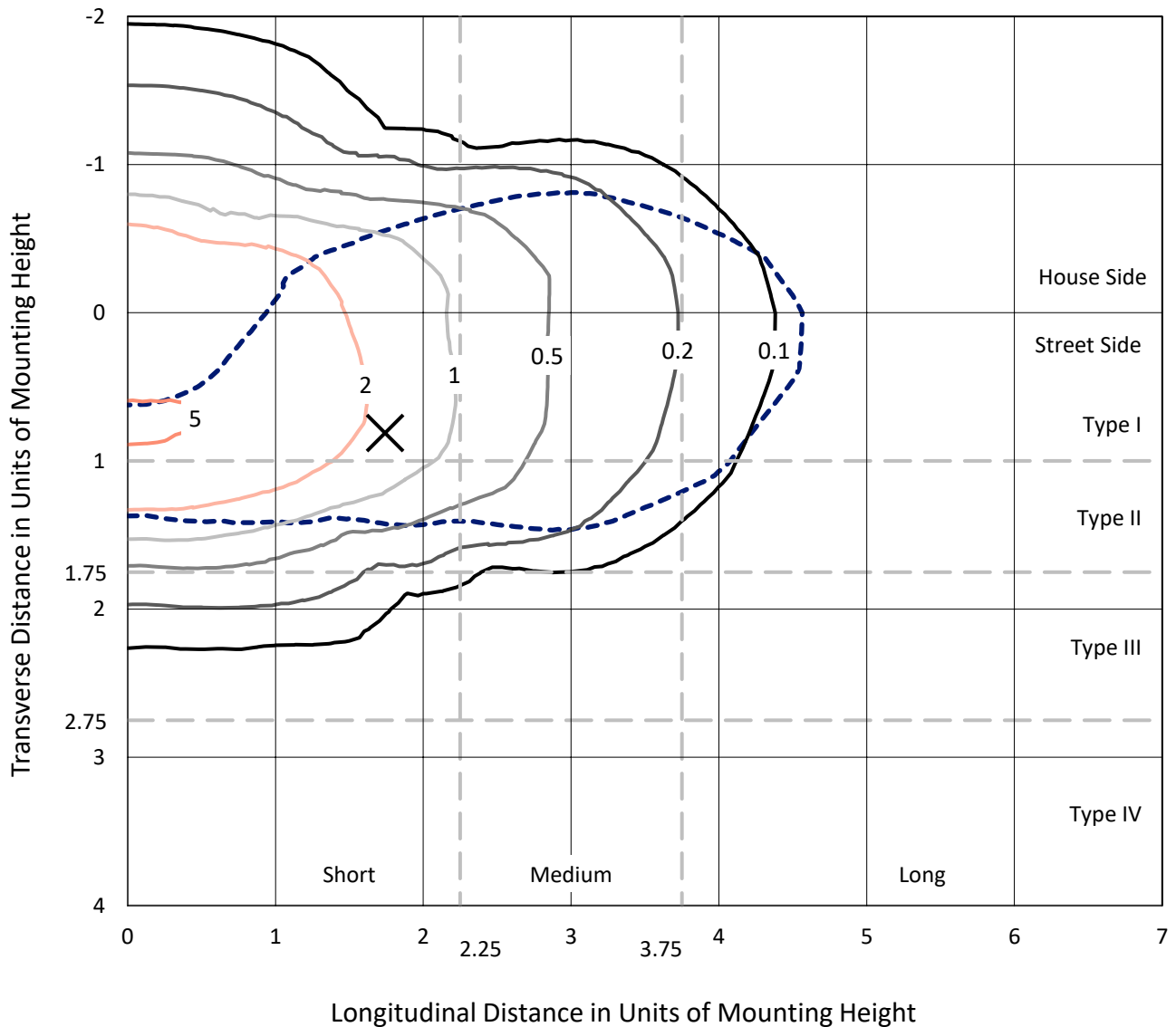
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P964478  
 CATALOG NUMBER: NAV-SB3C-722-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

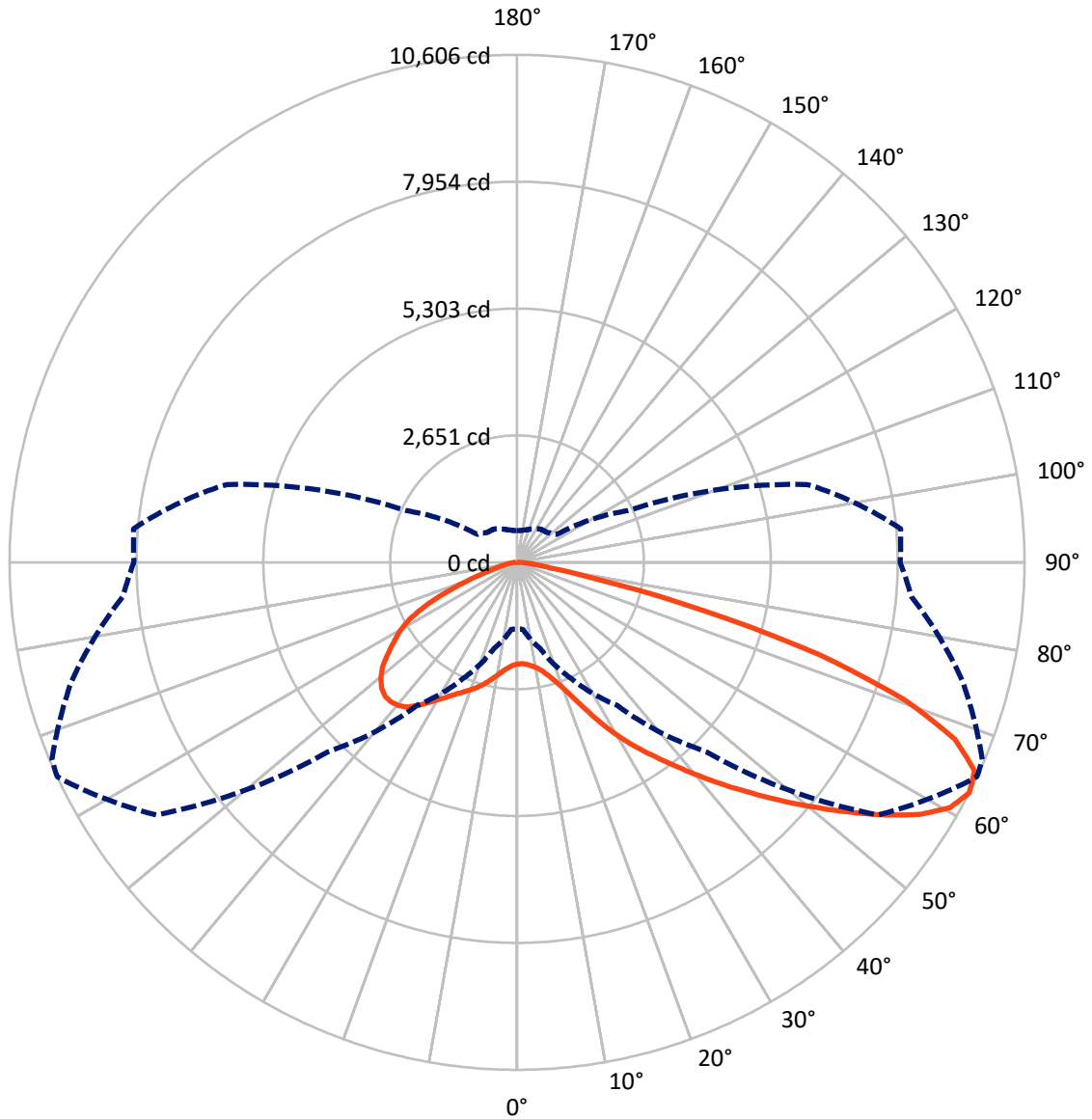
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P964478  
CATALOG NUMBER: NAV-SB3C-722-U-T2U

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P964478  
 CATALOG NUMBER: NAV-SB3C-722-U-T2U

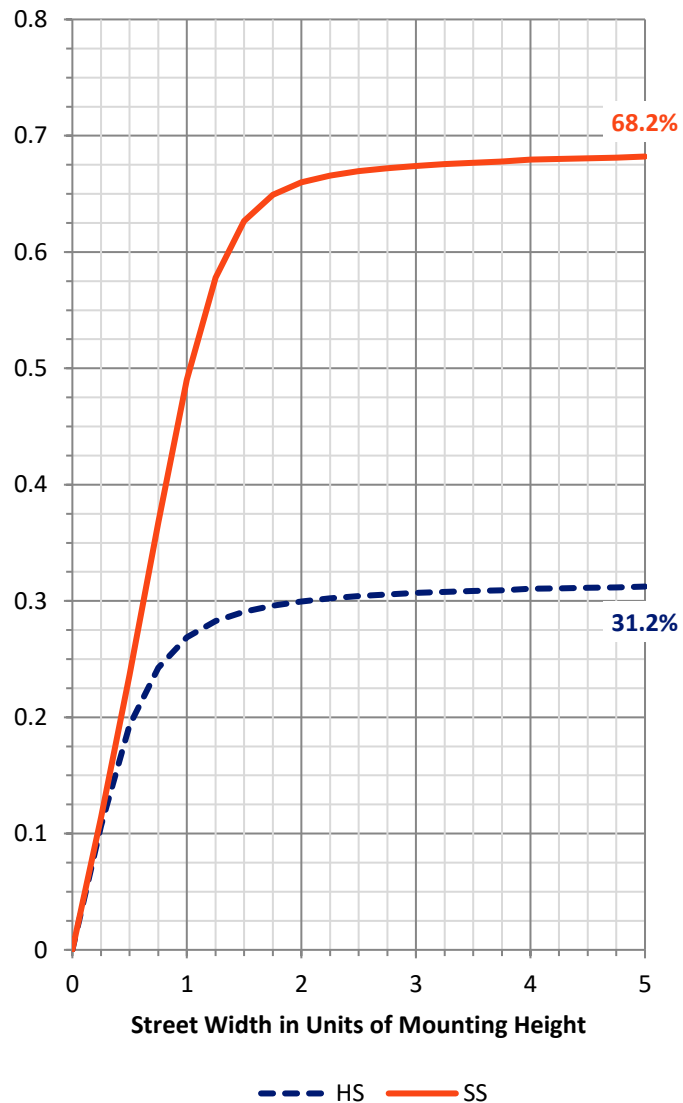
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6084.3	0.0	6084.3
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	13196.9	0.0	13196.9
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	19281.3	0.0	19281.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.8	1.1
10°-20°	718.3	3.7
20°-30°	1456.5	7.6
30°-40°	2520.5	13.1
40°-50°	3814.2	19.8
50°-60°	4471.9	23.2
60°-70°	3749.2	19.4
70°-80°	2069.9	10.7
80°-90°	268.9	1.4
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°	19281.3	100.0
0°-180°	19281.3	100.0

**Coefficient of Utilization**



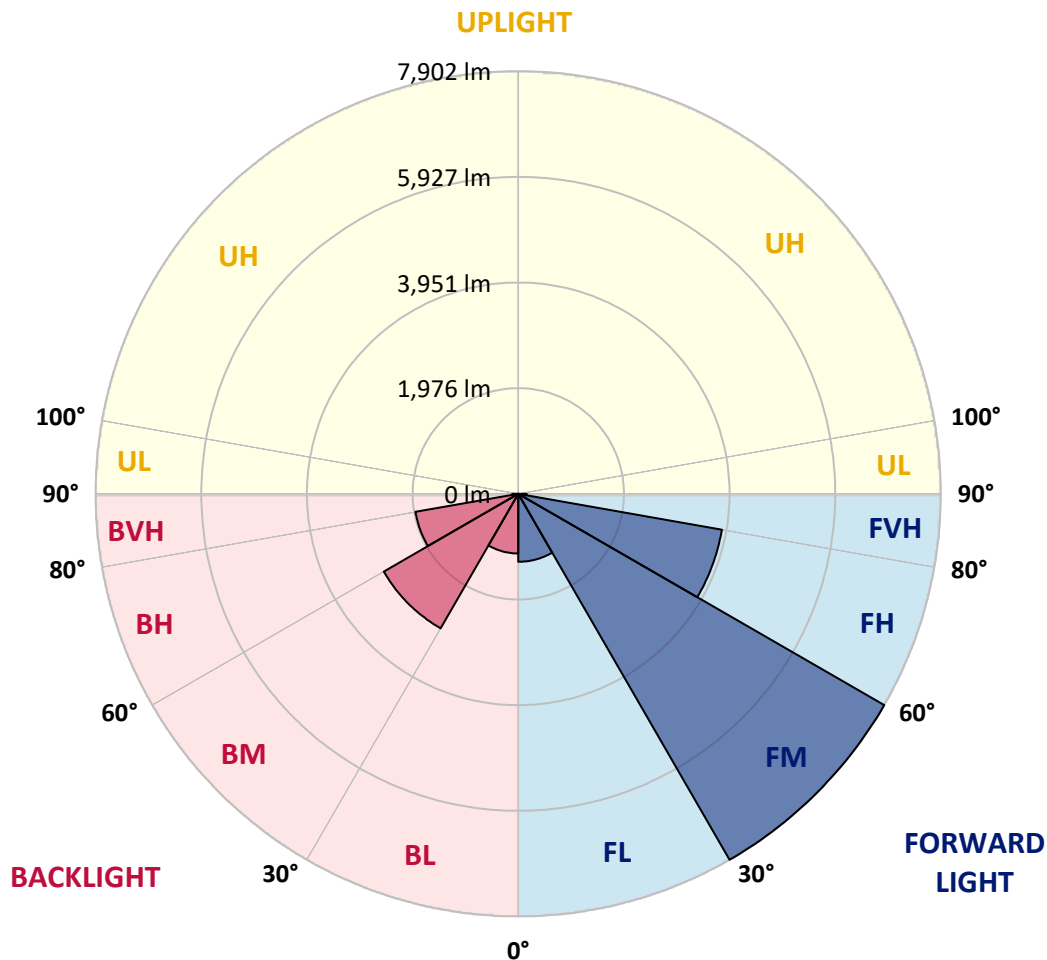
REPORT NUMBER: P964478  
 CATALOG NUMBER: NAV-SB3C-722-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1270.9	6.6			
FM (30°-60°)	7902.1	41.0			
FH (60°-80°)	3867.3	20.1			G2/5000
FVH (80°-90°)	156.7	0.8			G2/225
BL (0°-30°)	1115.8	5.8	B3/2500		
BM (30°-60°)	2904.6	15.1	B3/5000		
BH (60°-80°)	1951.8	10.1	B3/2500		G3/2500
BVH (80°-90°)	112.2	0.6			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 II Short



REPORT NUMBER: P964478  
 CATALOG NUMBER: NAV-SB3C-722-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7
2.5°	2110.7	2104.7	2109.8	2109.8	2111.7	2110.7	2117.8	2119.7	2122.7	2128.7	2128.7
5°	2089.7	2088.7	2097.7	2105.7	2113.8	2120.7	2129.7	2142.8	2144.7	2151.7	2160.7
7.5°	2082.7	2076.6	2090.7	2100.7	2119.7	2136.7	2160.7	2182.7	2191.8	2194.7	2211.7
10°	2136.7	2126.7	2139.7	2145.7	2161.7	2178.7	2206.7	2241.8	2251.7	2263.7	2282.8
12.5°	2228.8	2217.8	2236.8	2245.8	2260.7	2275.8	2294.8	2328.8	2333.8	2355.8	2373.8
15°	2354.8	2341.8	2353.8	2364.8	2389.8	2403.8	2422.8	2455.8	2455.8	2472.8	2485.8
17.5°	2525.8	2508.9	2517.8	2521.8	2537.9	2558.8	2590.9	2619.9	2634.9	2628.9	2610.9
20°	2780.9	2759.9	2759.9	2739.9	2733.9	2750.9	2792.9	2833.0	2849.0	2817.9	2774.0
22.5°	3164.1	3134.0	3117.0	3049.1	3022.0	3024.1	3066.0	3115.1	3128.1	3073.1	2974.0
25°	3651.3	3604.2	3581.2	3481.2	3420.1	3367.1	3400.1	3463.2	3481.2	3413.1	3253.0
27.5°	4138.4	4141.4	4119.4	3999.3	3898.3	3801.3	3784.3	3850.3	3869.3	3792.3	3594.2
30°	4821.6	4750.6	4708.5	4564.5	4420.5	4284.4	4214.4	4241.4	4246.5	4154.4	3924.3
32.5°	5410.8	5392.8	5302.7	5176.8	4991.6	4778.7	4661.6	4618.5	4610.6	4479.5	4206.4
35°	6082.0	6072.0	5977.0	5826.9	5626.8	5330.8	5119.7	4996.7	4986.6	4802.6	4485.5
37.5°	6764.3	6764.3	6671.2	6507.2	6300.2	5930.0	5608.9	5413.8	5381.8	5141.7	4769.6
40°	7308.5	7275.4	7292.5	7223.4	6986.3	6593.2	6152.0	5868.9	5826.0	5537.9	5071.7
42.5°	7617.6	7606.5	7708.6	7785.6	7688.6	7374.5	6750.2	6362.2	6302.1	5974.0	5419.8
45°	7686.6	7674.6	7856.6	8138.7	8274.8	8145.8	7400.5	6881.3	6808.3	6430.1	5793.0
47.5°	7527.5	7503.5	7770.6	8215.8	8651.9	8879.0	8104.7	7444.5	7338.5	6874.3	6176.0
50°	7049.3	7026.4	7430.5	8021.6	8778.9	9377.1	8869.0	8041.7	7879.7	7350.5	6563.2
52.5°	6010.0	6021.1	6654.2	7466.5	8611.8	9687.3	9527.2	8670.9	8475.8	7837.7	6926.3
55°	4681.6	4705.6	5483.9	6378.2	7943.6	9640.2	9976.3	9319.1	9125.1	8295.7	7301.5
57.5°	3352.2	3458.1	4187.4	5072.7	6660.2	8894.9	10074.4	9935.3	9747.2	8795.9	7668.5
60°	2172.7	2191.8	2942.0	3834.3	5071.7	7570.5	9875.4	10402.5	10255.4	9306.1	7975.6
62.5°	1392.5	1405.5	1862.6	2681.9	3650.2	5600.9	9205.1	10605.6	10560.6	9643.2	8270.7
65°	1023.4	1013.3	1251.4	1772.6	2458.9	3454.1	7903.7	10507.5	10596.6	9854.3	8514.9
67.5°	854.3	840.3	957.4	1227.4	1811.6	1961.6	5847.9	9870.3	10196.4	9830.3	8693.9
70°	778.3	766.3	837.3	911.3	1413.5	1313.4	2948.0	8580.9	9083.0	9557.2	8664.9
72.5°	659.2	638.2	735.2	809.2	1099.4	1007.4	1218.4	6591.3	7203.4	8682.0	8256.8
75°	511.2	497.1	580.2	712.3	826.3	786.3	770.3	4002.3	4670.6	6714.3	7223.4
77.5°	405.2	386.1	462.2	555.1	743.2	593.2	561.2	1723.5	2385.8	4286.4	5404.8
80°	305.1	288.1	351.2	439.1	571.2	447.1	363.2	703.3	899.3	2171.8	2717.9
82.5°	217.1	202.0	245.1	322.2	384.2	401.2	223.0	394.1	443.1	837.3	607.2
85°	139.1	130.1	164.1	202.0	244.1	258.1	136.0	206.0	226.1	345.1	253.1
87.5°	76.1	62.0	88.0	94.0	113.1	103.0	65.0	75.0	81.1	125.0	107.0
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: P964478  
 CATALOG NUMBER: NAV-SB3C-722-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7	2124.7
2.5°	2132.7	2135.7	2145.7	2148.7	2155.7	2164.7	2170.7	2176.7	2176.7	2182.7	2182.7
5°	2161.7	2168.7	2189.7	2200.8	2218.7	2236.8	2247.7	2260.7	2268.7	2272.7	2274.8
7.5°	2217.8	2228.8	2258.8	2277.8	2308.8	2333.8	2350.8	2368.8	2372.8	2383.8	2379.8
10°	2293.7	2306.8	2340.8	2376.8	2413.8	2444.8	2460.8	2473.8	2478.9	2480.8	2475.8
12.5°	2380.8	2399.8	2443.8	2487.9	2526.8	2553.9	2557.9	2554.8	2540.9	2528.9	2528.9
15°	2487.9	2504.8	2553.9	2601.9	2639.9	2644.9	2619.9	2603.9	2586.9	2583.8	2583.8
17.5°	2615.9	2624.9	2669.9	2716.9	2719.9	2702.9	2665.9	2650.9	2634.9	2623.9	2624.9
20°	2764.9	2762.0	2793.9	2813.9	2792.9	2741.0	2684.9	2659.9	2643.9	2630.9	2631.9
22.5°	2943.0	2920.0	2916.0	2911.0	2854.9	2745.9	2669.9	2637.8	2612.8	2594.9	2600.8
25°	3202.1	3114.1	3053.1	3019.0	2893.0	2718.9	2621.8	2550.8	2503.9	2472.8	2484.8
27.5°	3526.2	3378.1	3224.0	3141.0	2893.0	2663.9	2505.8	2390.8	2313.7	2281.8	2297.7
30°	3835.2	3680.3	3453.1	3288.1	2886.0	2573.9	2318.8	2158.8	2068.7	2036.7	2055.7
32.5°	4099.4	3930.4	3696.3	3449.1	2869.0	2427.8	2086.7	1909.7	1822.7	1784.6	1803.6
35°	4344.5	4164.4	3940.3	3626.2	2824.0	2213.7	1831.6	1696.6	1599.5	1538.5	1558.5
37.5°	4595.6	4381.5	4171.4	3786.2	2742.9	1963.7	1635.6	1520.5	1406.5	1324.4	1346.4
40°	4868.6	4612.5	4418.5	3881.3	2609.9	1725.6	1483.5	1378.4	1257.5	1170.3	1187.4
42.5°	5187.7	4889.7	4693.6	3930.4	2427.8	1556.6	1384.5	1281.5	1167.4	1096.3	1110.4
45°	5520.9	5194.7	4944.7	3929.3	2224.8	1477.5	1352.5	1250.4	1124.4	1050.3	1062.3
47.5°	5870.0	5513.9	5161.7	3865.3	2048.7	1488.5	1334.4	1183.4	1044.4	972.3	982.4
50°	6220.1	5863.0	5371.8	3745.2	1973.6	1464.5	1267.4	1089.4	925.3	860.3	864.3
52.5°	6567.2	6234.0	5552.8	3574.2	1897.7	1375.4	1181.4	967.3	876.3	831.3	831.3
55°	6916.3	6601.2	5749.9	3325.1	1707.5	1271.4	1037.3	921.3	837.3	796.2	792.2
57.5°	7266.4	7025.4	5937.0	3076.0	1468.5	1143.4	958.3	865.3	798.3	763.2	757.3
60°	7630.5	7510.5	6130.0	2846.9	1232.5	979.3	900.3	820.3	752.2	713.2	710.2
62.5°	8005.7	8044.7	6281.1	2551.8	1015.4	879.2	848.3	766.3	700.3	663.2	662.3
65°	8383.8	8559.9	6380.1	2142.8	823.3	784.2	792.2	707.2	640.2	608.2	607.2
67.5°	8668.9	8931.0	6352.1	1621.6	675.3	694.2	722.2	645.2	582.2	557.2	558.2
70°	8700.9	8887.0	6076.0	1110.4	565.2	606.2	644.2	584.1	519.2	501.1	502.1
72.5°	8274.8	8286.8	5306.7	725.3	478.2	532.2	562.2	522.1	459.2	441.2	440.1
75°	7157.4	6853.3	3896.3	478.2	400.2	457.2	485.1	457.2	396.2	400.2	386.1
77.5°	5422.9	4853.6	2365.8	340.1	334.2	384.2	422.1	402.1	350.1	393.1	346.1
80°	2793.9	2625.8	1055.3	254.1	264.0	307.1	347.2	321.1	277.1	264.0	241.1
82.5°	640.2	744.3	416.2	182.0	191.1	221.1	265.1	241.1	199.1	168.1	166.0
85°	224.1	245.1	184.1	114.1	112.0	138.1	180.1	161.0	135.1	108.0	114.1
87.5°	71.0	93.1	69.0	46.0	48.0	62.0	83.0	76.1	63.0	41.0	43.0
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)