

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: P962885

Luminaire Tested: **NAV-SB2D-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2D-722-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16840.8 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

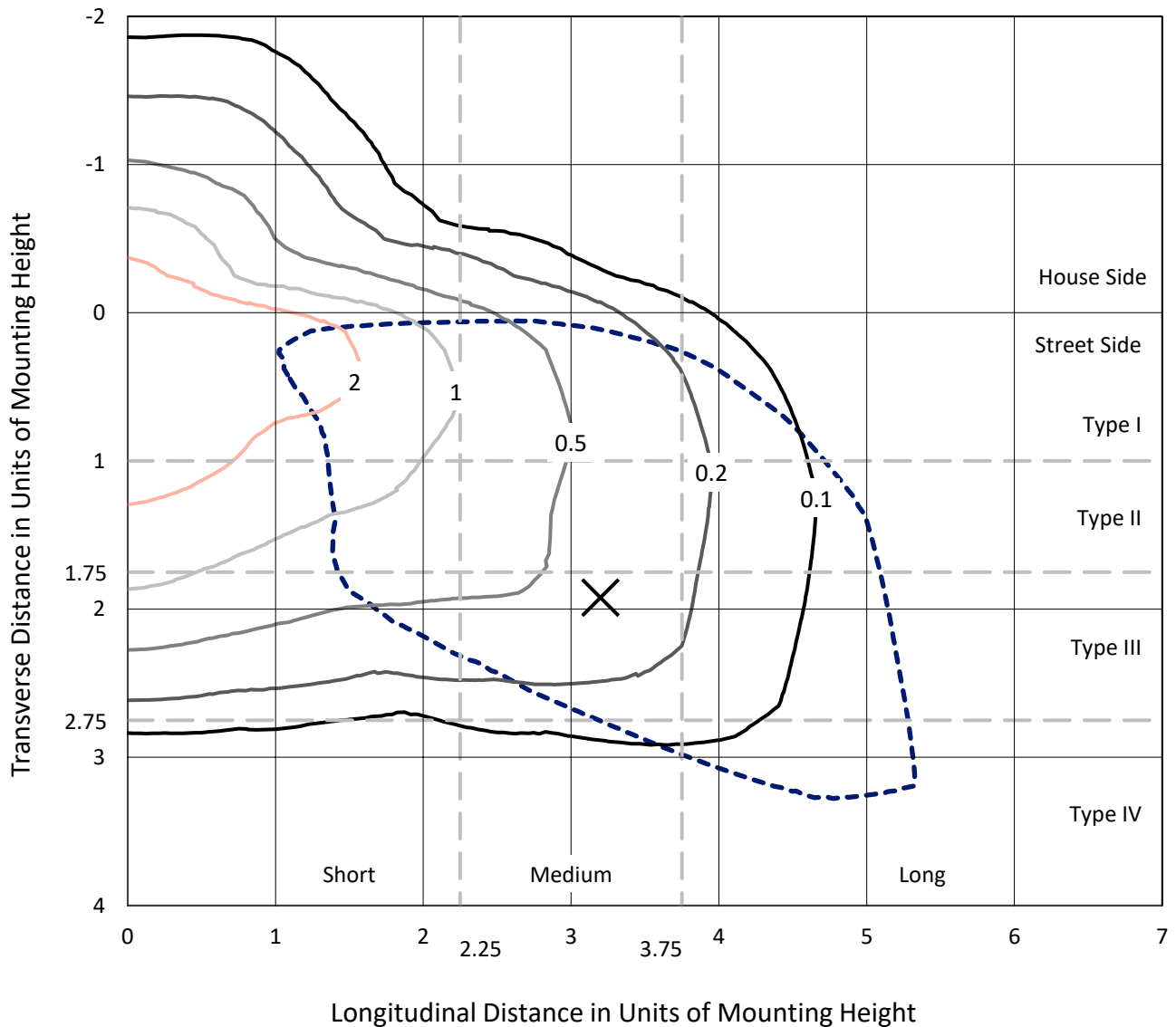
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

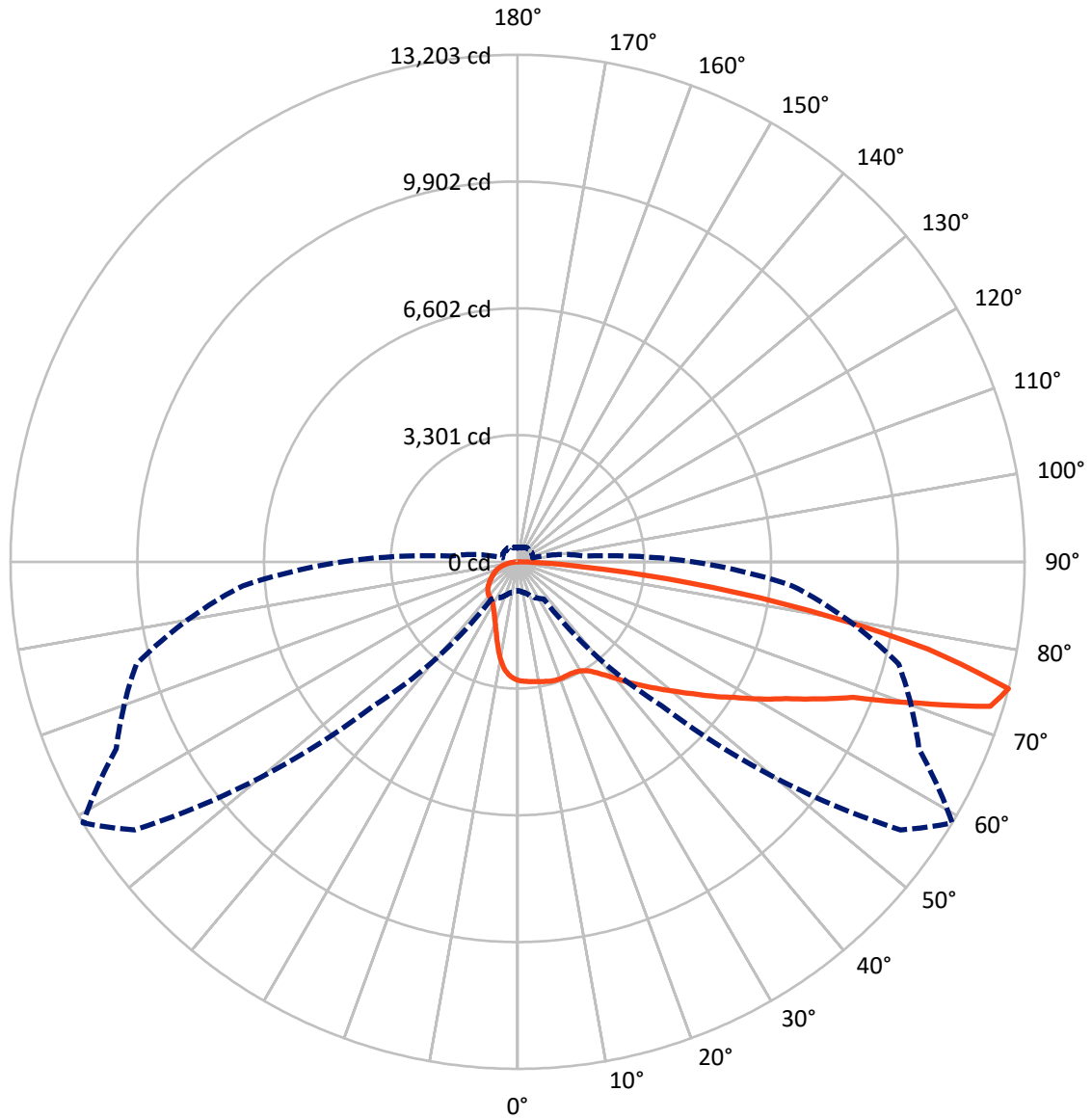
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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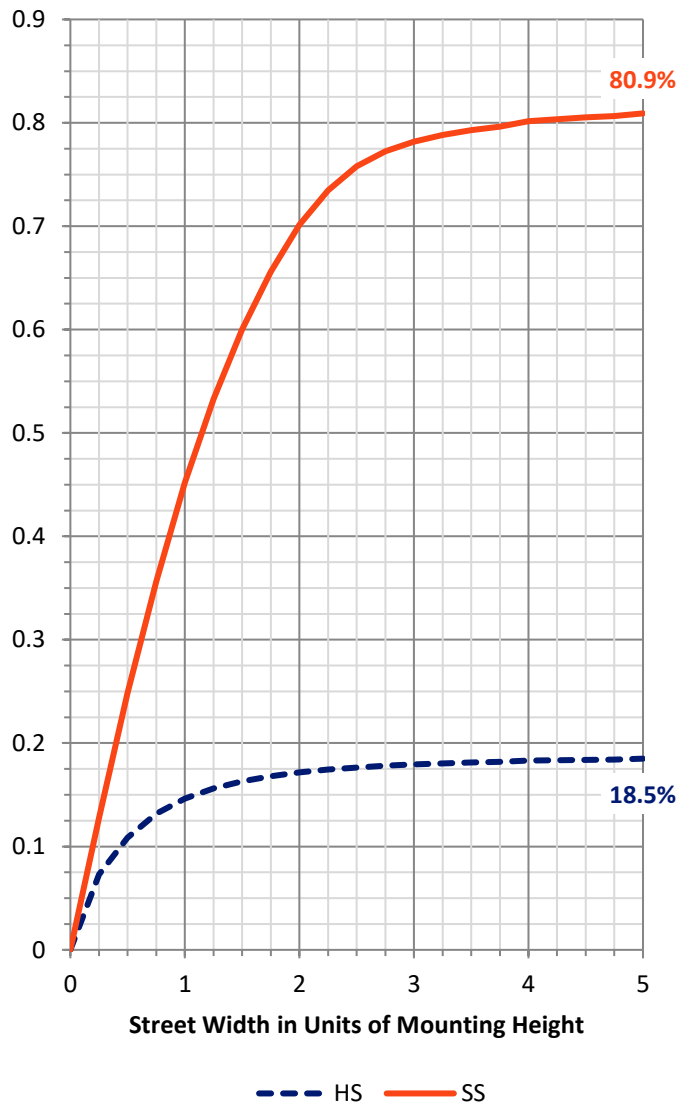
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3158.6	0.0	3158.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	13682.1	0.0	13682.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	16840.8	0.0	16840.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.2	1.6
10°-20°	708.5	4.2
20°-30°	1076.1	6.4
30°-40°	1599.6	9.5
40°-50°	2378.8	14.1
50°-60°	3229.0	19.2
60°-70°	3942.1	23.4
70°-80°	3093.7	18.4
80°-90°	535.9	3.2
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°	16840.8	100.0
0°-180°	16840.8	100.0

Coefficient of Utilization

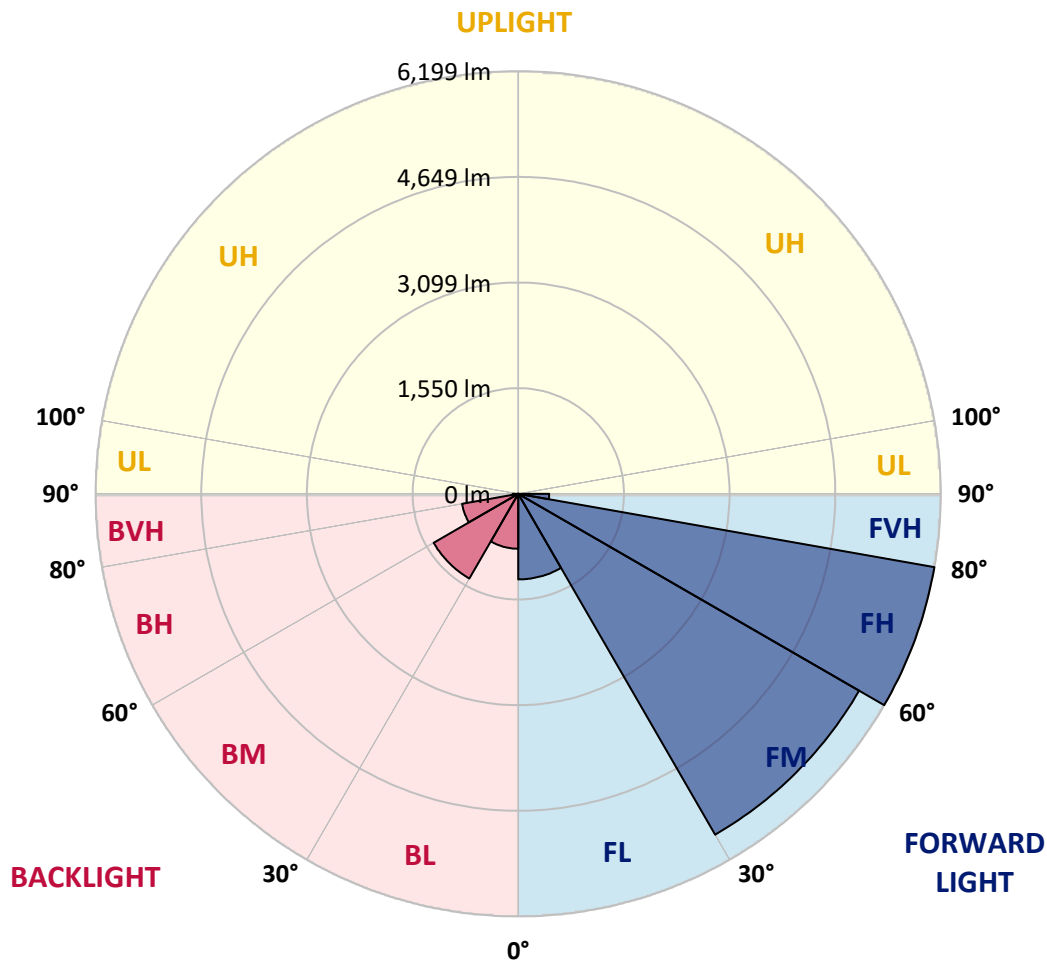


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1255.7	7.5			
FM (30°-60°)	5773.7	34.3			
FH (60°-80°)	6198.9	36.8			G3/7500
FVH (80°-90°)	453.9	2.7			G3/500
BL (0°-30°)	806.0	4.8	B2/1000		
BM (30°-60°)	1433.7	8.5	B2/2500		
BH (60°-80°)	836.8	5.0	B2/1000		G2/1000
BVH (80°-90°)	82.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1
2.5°	3117.3	3106.5	3117.3	3112.8	3111.0	3107.4	3108.3	3114.7	3111.0	3115.6	3100.1
5°	3096.5	3090.2	3101.0	3098.4	3110.2	3111.9	3123.7	3131.0	3135.5	3136.4	3124.6
7.5°	3062.1	3055.7	3071.1	3083.8	3109.2	3116.4	3140.9	3152.7	3159.0	3169.9	3152.7
10°	2936.2	2933.4	2971.5	3019.5	3079.3	3116.4	3153.6	3173.5	3183.4	3212.5	3192.6
12.5°	2713.3	2717.0	2766.8	2859.1	2978.8	3098.4	3168.1	3197.1	3212.5	3248.7	3239.6
15°	2500.4	2499.5	2553.9	2652.6	2820.2	3018.6	3175.3	3225.2	3251.4	3304.9	3297.6
17.5°	2377.2	2373.6	2411.6	2486.9	2642.7	2896.3	3157.2	3240.5	3296.7	3363.7	3357.4
20°	2354.5	2347.4	2367.2	2404.3	2514.9	2762.3	3110.2	3240.5	3333.0	3419.9	3416.3
22.5°	2437.0	2425.3	2417.1	2412.5	2461.4	2651.7	3056.7	3229.7	3386.4	3500.6	3494.2
25°	2602.8	2584.6	2543.0	2502.2	2487.7	2601.9	3009.5	3227.0	3466.1	3609.3	3585.8
27.5°	2870.9	2848.3	2764.0	2666.2	2578.3	2627.3	2988.7	3243.3	3554.0	3724.3	3677.2
30°	3203.4	3178.9	3073.0	2922.6	2764.9	2721.5	3014.9	3291.3	3666.3	3877.5	3785.0
32.5°	3501.5	3474.3	3383.7	3230.6	3017.7	2884.6	3098.4	3382.8	3843.0	4090.4	3947.2
35°	3766.1	3734.3	3652.8	3511.4	3327.6	3113.7	3248.7	3545.0	4094.0	4436.4	4167.3
37.5°	4025.1	3988.0	3899.2	3749.7	3621.0	3419.0	3456.2	3753.3	4427.4	4856.8	4459.1
40°	4315.0	4261.5	4153.7	4006.1	3881.1	3776.9	3728.8	4008.8	4766.1	5326.0	4823.2
42.5°	4595.9	4545.2	4416.5	4290.5	4133.8	4103.9	4045.1	4307.8	5136.7	5841.6	5192.9
45°	4898.5	4837.7	4681.9	4522.5	4423.7	4321.4	4351.2	4606.8	5499.9	6367.0	5580.6
47.5°	5182.0	5114.0	4930.1	4752.6	4698.2	4504.4	4632.1	4935.6	5877.8	6899.7	5964.8
50°	5335.1	5268.1	5115.0	4954.6	4912.0	4730.0	4936.5	5297.1	6273.6	7430.5	6333.5
52.5°	5462.8	5390.4	5190.2	5101.3	5088.7	4975.5	5311.5	5710.2	6669.6	7899.9	6689.5
55°	5598.8	5518.1	5262.7	5182.9	5240.9	5250.9	5756.4	6178.5	7088.1	8357.3	7025.6
57.5°	5755.5	5653.1	5332.4	5251.8	5389.4	5573.3	6267.4	6664.1	7499.4	8781.3	7324.5
60°	5903.2	5799.9	5466.4	5361.4	5549.9	5947.6	6853.5	7252.1	7965.1	9159.1	7607.2
62.5°	5932.1	5847.0	5573.3	5572.4	5767.3	6384.2	7547.4	7845.5	8371.8	9532.4	7860.9
65°	5430.2	5376.7	5214.6	5564.3	6078.9	7012.9	8320.2	8604.7	8889.1	9858.4	8083.8
67.5°	4132.9	4140.2	4128.4	4803.4	5827.0	7916.2	9439.0	9417.3	9527.8	10224.5	8340.1
70°	1889.8	1932.3	2209.6	3315.8	4668.4	8020.3	11288.9	11007.3	10329.5	10698.3	8562.0
72.5°	1021.0	1053.6	1166.9	1606.3	2806.7	7130.7	12671.5	12871.6	11395.8	11017.2	8318.4
75°	749.2	767.3	846.1	1021.0	1178.6	5299.8	12175.9	13203.2	11529.1	10273.4	7183.2
77.5°	560.8	569.0	633.2	809.0	603.3	2793.9	9728.9	10934.7	9869.3	8440.7	5306.1
80°	406.7	415.8	463.8	607.0	423.1	1021.9	6680.4	7675.2	6759.3	5380.4	2644.5
82.5°	280.8	284.4	305.3	413.1	295.3	396.8	3790.4	4500.8	3773.2	1887.9	713.9
85°	169.4	173.9	183.0	241.0	167.6	188.4	1636.1	1692.3	1127.9	451.2	221.9
87.5°	69.8	74.3	81.5	101.5	66.1	52.6	270.0	338.9	211.0	132.2	68.9
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°	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1	3091.1
2.5°	3095.6	3089.2	3072.0	3048.5	3026.7	2999.6	2987.8	2977.8	2968.8	2951.6	2943.4
5°	3114.7	3097.4	3051.2	2991.5	2923.5	2849.2	2776.7	2726.9	2684.3	2652.6	2626.4
7.5°	3143.7	3111.0	3026.7	2904.4	2748.6	2589.1	2445.1	2342.7	2265.8	2237.7	2188.8
10°	3173.5	3134.6	2987.8	2772.2	2503.2	2257.6	2066.5	1961.3	1899.7	1879.8	1849.0
12.5°	3208.9	3151.8	2927.1	2588.3	2228.7	1959.6	1792.8	1731.2	1699.6	1688.7	1691.4
15°	3260.5	3166.2	2835.6	2358.2	1966.8	1742.1	1634.4	1591.7	1575.4	1574.5	1578.2
17.5°	3299.5	3169.0	2693.4	2111.8	1765.7	1610.8	1522.0	1505.7	1516.6	1532.9	1539.2
20°	3342.9	3144.5	2506.7	1887.1	1624.3	1495.7	1458.6	1469.4	1495.7	1519.3	1527.5
22.5°	3373.8	3100.1	2281.1	1712.3	1502.0	1429.6	1427.7	1450.4	1464.9	1476.7	1483.1
25°	3401.0	3025.0	2042.0	1565.5	1401.5	1389.7	1409.7	1402.4	1392.5	1402.4	1408.8
27.5°	3420.8	2906.3	1828.2	1436.8	1330.9	1362.5	1350.7	1334.4	1333.5	1339.0	1348.1
30°	3414.5	2747.7	1652.4	1314.6	1281.0	1311.8	1283.7	1281.0	1278.3	1281.0	1291.0
32.5°	3414.5	2567.4	1517.4	1230.3	1249.3	1237.5	1234.8	1228.5	1217.6	1216.7	1228.5
35°	3433.5	2387.1	1401.5	1185.0	1223.0	1194.9	1196.8	1181.3	1158.7	1147.8	1158.7
37.5°	3472.5	2242.2	1286.5	1163.3	1176.8	1175.9	1168.7	1142.4	1102.5	1068.2	1079.8
40°	3566.7	2199.6	1207.7	1153.2	1155.1	1165.9	1147.0	1096.2	1005.6	949.5	956.6
42.5°	3714.4	2271.2	1190.4	1128.8	1140.6	1151.5	1114.3	996.5	932.2	898.7	898.7
45°	3901.9	2396.2	1227.5	1093.5	1106.2	1125.1	1014.6	958.5	929.5	930.4	934.9
47.5°	4139.3	2527.5	1296.4	1062.7	1056.4	1067.2	948.5	914.1	874.2	884.2	909.6
50°	4413.8	2660.8	1361.6	1021.0	1001.1	965.8	905.9	873.3	822.6	799.1	805.3
52.5°	4710.9	2789.4	1388.0	970.3	941.3	900.5	877.0	837.1	775.5	736.6	735.6
55°	4992.7	2906.3	1358.9	909.6	881.5	849.7	846.1	821.7	755.5	701.2	701.2
57.5°	5259.0	3004.1	1286.5	848.0	820.8	801.8	826.3	814.5	731.1	661.3	657.7
60°	5484.6	3071.1	1181.3	785.5	766.4	756.4	793.7	790.0	696.7	618.8	616.0
62.5°	5663.9	3097.4	1065.4	725.7	721.1	703.0	748.4	748.4	653.2	577.1	574.4
65°	5804.4	3072.0	947.6	666.8	675.9	648.6	693.0	687.6	607.0	540.0	536.3
67.5°	5928.5	2988.7	817.1	608.7	629.7	595.2	635.1	622.4	556.3	502.8	499.2
70°	5983.7	2794.9	668.6	550.8	576.2	542.6	577.1	553.5	499.2	462.9	455.7
72.5°	5539.8	2322.9	526.3	490.2	511.9	484.7	514.6	487.4	437.6	421.3	407.6
75°	4583.2	1743.0	405.0	423.9	440.3	419.4	439.4	419.4	374.1	385.9	352.4
77.5°	3328.5	1176.8	309.9	354.2	361.5	350.5	367.8	345.1	304.4	301.7	288.1
80°	1655.2	689.4	242.8	279.9	277.3	270.0	289.9	279.0	244.6	259.1	256.4
82.5°	479.3	295.3	176.7	196.6	191.2	193.0	207.5	212.9	318.9	316.2	323.4
85°	150.4	115.9	106.0	109.6	104.1	106.9	122.3	242.8	224.7	131.4	142.3
87.5°	38.9	39.9	26.2	28.1	29.0	34.4	38.9	147.7	70.6	46.2	48.9
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)