

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: P963983

Luminaire Tested: **NAV-SB3B-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-727-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15915.2 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

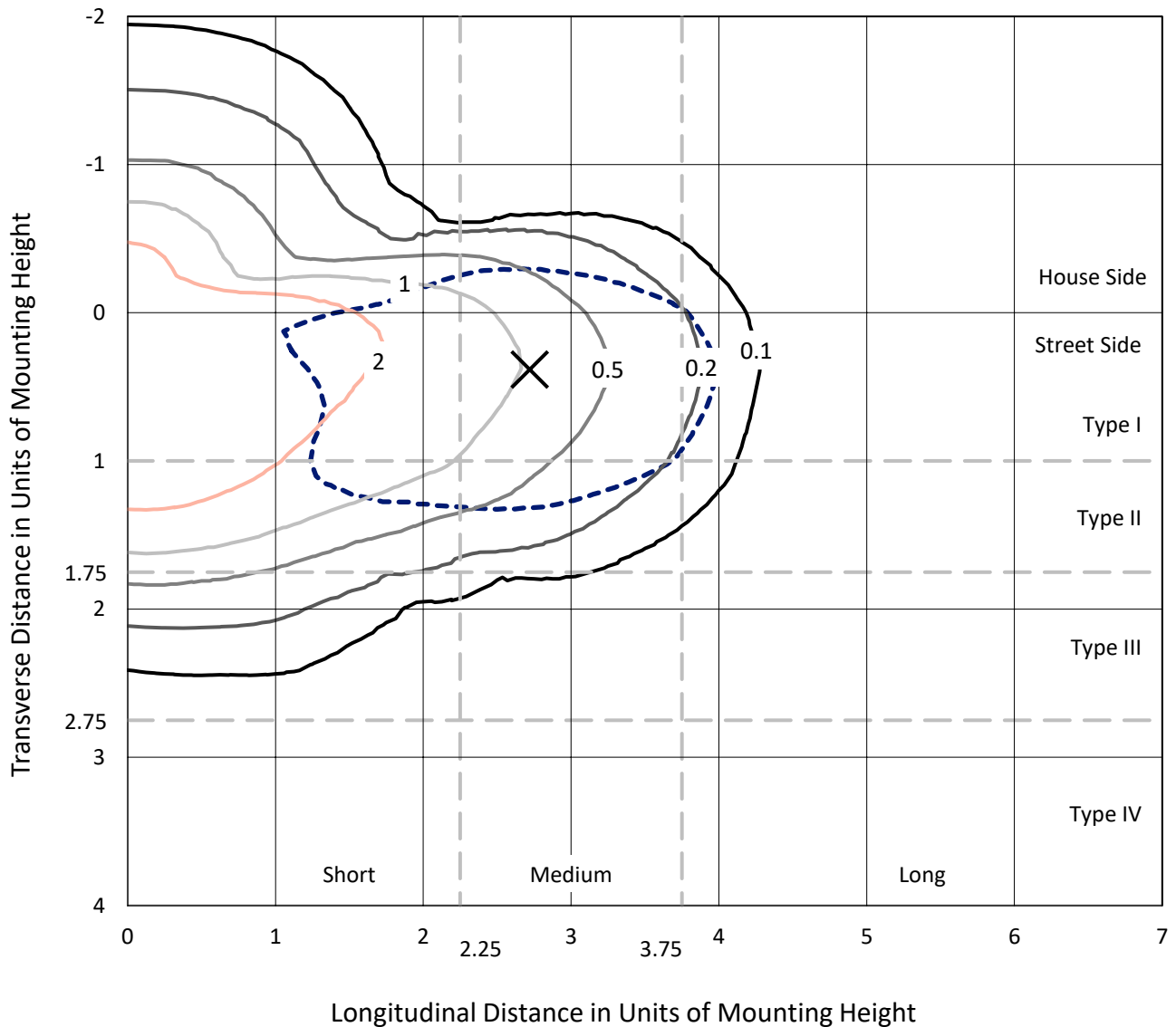
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

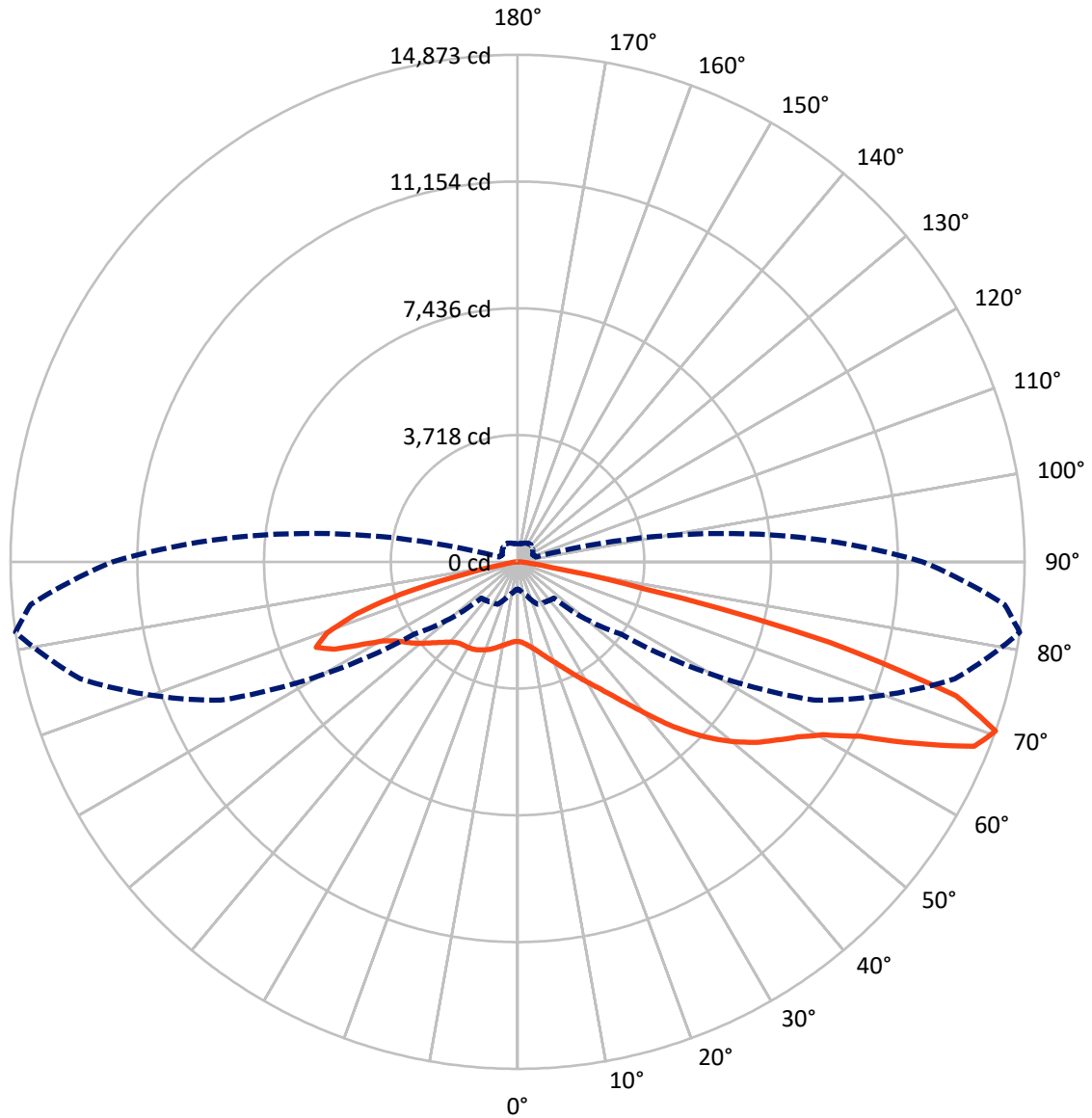
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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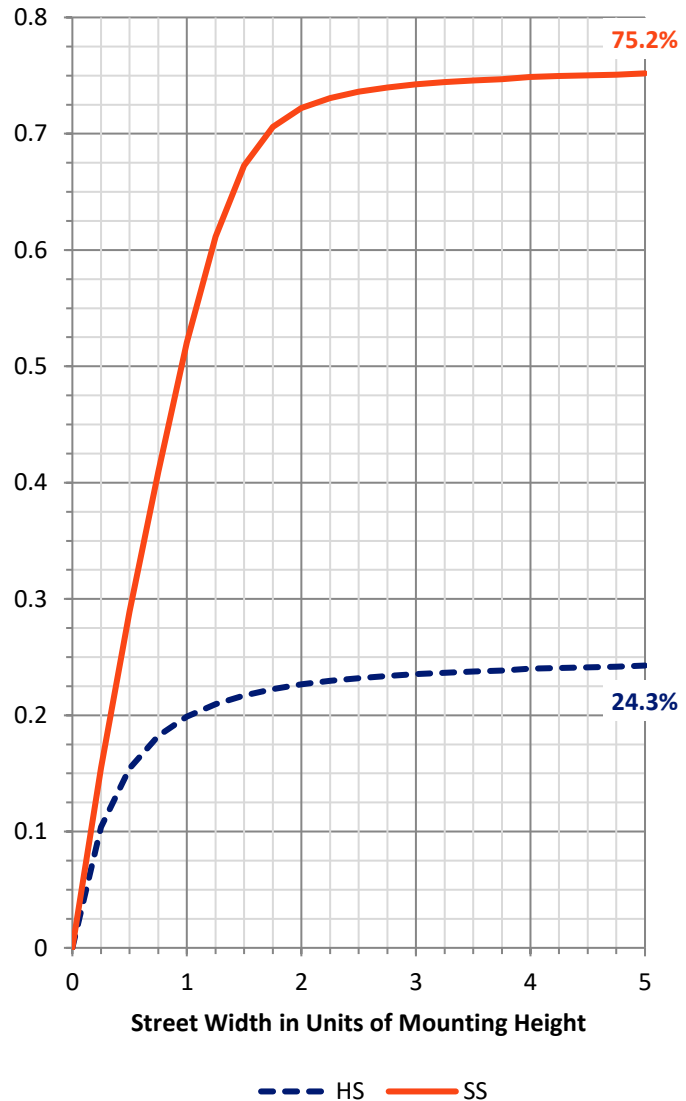
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3923.5	0.0	3923.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	11991.7	0.0	11991.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	15915.2	0.0	15915.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.3	1.4
10°-20°	633.0	4.0
20°-30°	1058.9	6.7
30°-40°	1654.3	10.4
40°-50°	2634.6	16.6
50°-60°	3666.4	23.0
60°-70°	3835.2	24.1
70°-80°	2004.5	12.6
80°-90°	208.1	1.3
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°	15915.2	100.0
0°-180°	15915.2	100.0

Coefficient of Utilization

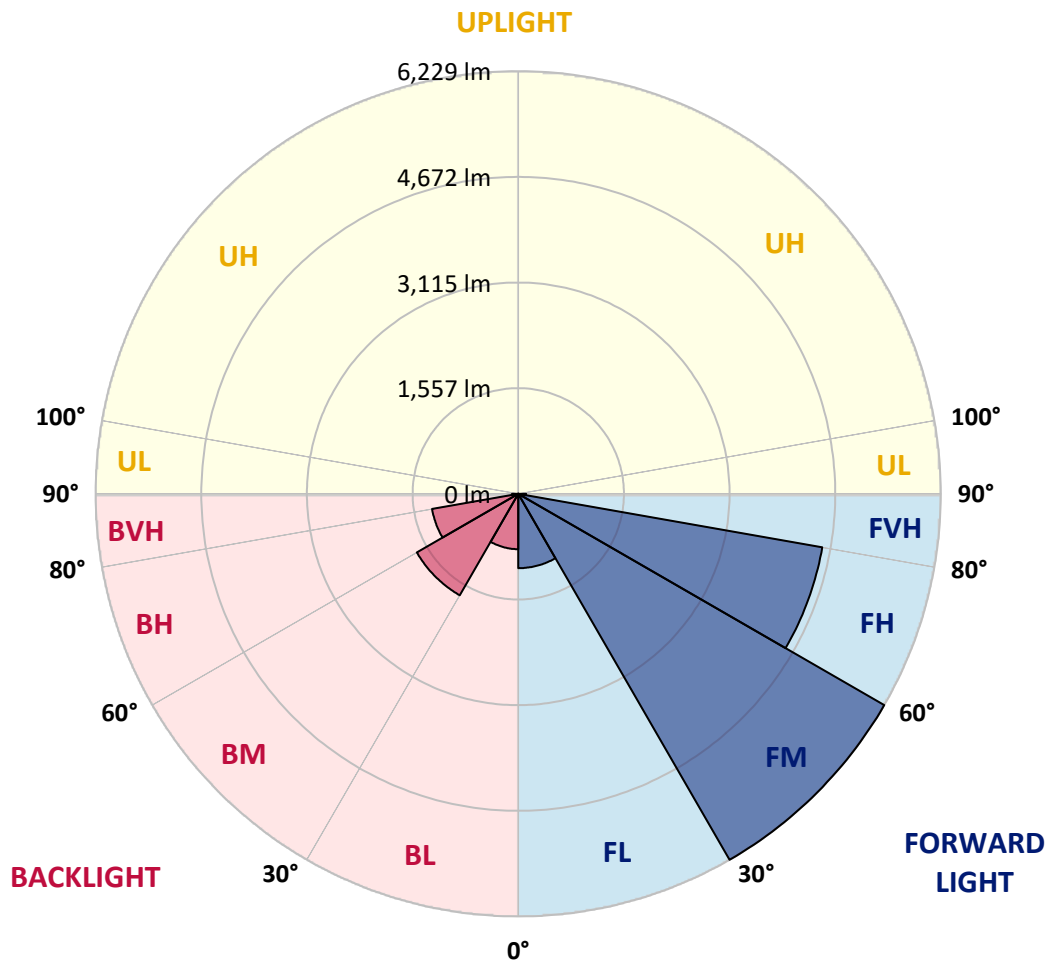


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1095.9	6.9			
FM (30°-60°)	6229.0	39.1			
FH (60°-80°)	4550.2	28.6			G2/5000
FVH (80°-90°)	116.5	0.7			G2/225
BL (0°-30°)	816.2	5.1	B2/1000		
BM (30°-60°)	1726.2	10.8	B2/2500		
BH (60°-80°)	1289.4	8.1	B3/2500		G3/2500
BVH (80°-90°)	91.6	0.6			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2333.4	2333.4	2333.4	2333.4	2333.4	2333.4	2333.4	2333.4	2333.4	2333.4	2333.4
2.5°	2389.1	2402.6	2398.4	2394.2	2394.2	2388.2	2387.4	2378.9	2372.3	2361.2	2358.7
5°	2419.5	2433.9	2432.1	2435.5	2446.6	2449.0	2451.6	2446.6	2433.0	2419.5	2413.6
7.5°	2392.5	2408.5	2413.6	2433.9	2467.7	2498.0	2520.9	2530.1	2517.5	2498.0	2488.8
10°	2301.2	2319.0	2336.7	2384.9	2444.8	2516.6	2577.5	2613.8	2611.2	2592.6	2576.5
12.5°	2116.3	2134.9	2172.9	2266.7	2376.5	2503.2	2616.3	2692.3	2718.5	2705.0	2677.1
15°	1968.5	1984.6	2013.3	2109.6	2252.3	2444.8	2630.7	2778.5	2845.1	2837.5	2803.8
17.5°	1964.3	1971.1	1988.8	2034.4	2144.2	2353.6	2615.4	2862.8	2990.4	2989.5	2947.3
20°	2038.6	2041.2	2051.3	2060.6	2123.1	2284.4	2576.5	2932.9	3153.4	3153.4	3107.8
22.5°	2141.6	2140.0	2150.1	2141.6	2172.1	2278.5	2552.0	2994.6	3334.9	3348.5	3291.1
25°	2296.2	2287.8	2285.2	2265.8	2271.7	2333.4	2579.1	3064.7	3550.3	3578.2	3506.4
27.5°	2502.2	2488.8	2479.5	2434.7	2419.5	2446.6	2661.9	3149.1	3790.1	3838.3	3747.1
30°	2770.8	2746.3	2732.9	2655.2	2600.2	2604.4	2786.9	3261.4	4041.0	4118.7	4002.9
32.5°	3137.3	3099.3	3063.0	2935.5	2835.0	2802.0	2948.2	3416.8	4312.9	4437.0	4288.4
35°	3547.7	3517.4	3478.5	3281.7	3127.2	3051.2	3166.0	3633.9	4631.3	4828.1	4634.6
37.5°	3943.0	3916.8	3935.4	3670.2	3471.0	3360.3	3451.5	3925.2	5023.9	5314.4	5068.7
40°	4351.7	4331.4	4334.0	4080.6	3848.4	3724.2	3797.7	4291.0	5474.1	5892.9	5590.7
42.5°	4796.0	4780.7	4730.1	4505.4	4244.5	4128.8	4196.3	4713.2	5957.1	6551.7	6163.2
45°	5293.3	5284.1	5236.7	4979.1	4680.3	4550.2	4641.4	5179.3	6442.7	7171.5	6738.2
47.5°	5723.2	5730.8	5724.9	5507.8	5197.9	5007.0	5116.0	5665.8	6894.6	7754.2	7289.8
50°	5930.1	5969.8	6028.0	5960.5	5768.0	5573.7	5594.9	6135.3	7325.3	8300.7	7818.4
52.5°	5822.0	5897.1	6055.9	6164.0	6238.4	6197.8	6141.2	6601.5	7730.6	8793.8	8318.4
55°	5419.2	5524.7	5788.3	6049.1	6428.4	6723.1	6797.4	7118.3	8125.8	9227.9	8791.3
57.5°	4685.3	4856.8	5093.2	5621.0	6259.5	6977.3	7562.6	7835.3	8544.7	9691.5	9286.2
60°	3427.0	3656.7	3950.6	4736.0	5668.4	6841.4	8213.6	8936.6	9140.0	10291.9	9930.5
62.5°	2193.2	2335.1	2605.3	3345.1	4416.7	6144.6	8413.0	10313.0	10149.2	11276.6	10896.7
65°	1501.5	1592.7	1840.2	2255.7	2855.2	4573.9	7879.2	11345.1	11752.1	12837.3	12548.5
67.5°	1091.1	1160.3	1371.4	1735.4	1860.5	2706.6	6114.2	11297.8	13310.2	14445.2	13996.0
70°	795.5	844.5	1021.8	1371.4	1431.4	1505.7	3704.0	9603.7	13276.4	14872.5	14334.6
72.5°	589.5	623.2	742.3	1064.1	1158.7	1016.8	1833.4	6979.8	11408.4	13452.1	13020.6
75°	426.5	451.8	539.7	814.1	927.2	774.4	914.6	4079.0	7957.8	9462.7	9538.6
77.5°	326.0	345.4	402.8	596.2	742.3	581.0	567.5	1876.5	3773.2	3791.8	4004.7
80°	261.8	274.5	305.8	419.7	569.2	434.9	369.9	757.5	1192.5	1009.2	1059.0
82.5°	192.6	213.6	258.4	294.7	407.0	299.8	225.5	382.5	453.5	390.1	393.5
85°	109.8	124.1	156.2	211.2	260.1	183.3	129.3	169.7	211.2	173.1	154.6
87.5°	38.8	50.6	54.9	82.7	113.2	76.1	49.8	49.0	69.3	51.6	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2333.4	2333.4	2333.4	2333.4	2333.4	2333.4	2333.4	2333.4	2333.4	2333.4	2333.4
2.5°	2350.2	2346.0	2329.1	2306.4	2282.7	2259.9	2252.3	2236.2	2225.3	2219.3	2226.1
5°	2397.6	2384.0	2344.4	2293.6	2240.4	2183.0	2142.5	2105.4	2078.3	2053.0	2063.1
7.5°	2465.1	2441.4	2373.1	2284.4	2189.8	2094.4	2023.5	1969.3	1933.0	1909.5	1914.5
10°	2543.6	2507.4	2402.6	2270.1	2123.9	1987.2	1903.5	1857.1	1834.2	1821.6	1825.0
12.5°	2634.0	2582.5	2433.0	2237.1	2023.5	1867.2	1809.7	1796.2	1797.1	1798.0	1799.6
15°	2745.5	2673.7	2457.5	2165.3	1892.6	1775.2	1765.0	1787.0	1809.7	1820.7	1819.9
17.5°	2871.3	2770.0	2461.7	2047.0	1764.1	1716.1	1748.1	1795.4	1830.0	1845.2	1848.6
20°	3006.4	2868.0	2431.3	1879.8	1658.7	1667.9	1725.3	1786.2	1824.1	1843.6	1848.6
22.5°	3161.0	2972.6	2358.7	1704.2	1572.5	1615.5	1683.0	1742.2	1781.9	1801.3	1806.4
25°	3337.5	3090.1	2244.6	1556.5	1498.1	1556.5	1624.0	1673.0	1705.1	1722.8	1727.8
27.5°	3533.4	3212.5	2092.6	1439.0	1433.2	1495.6	1551.3	1589.4	1606.3	1619.8	1624.8
30°	3730.2	3324.0	1908.5	1350.3	1376.6	1435.6	1475.4	1492.2	1497.3	1499.9	1505.7
32.5°	3943.0	3420.2	1715.2	1276.8	1322.5	1377.4	1401.1	1408.7	1385.0	1369.0	1374.0
35°	4200.6	3523.2	1526.0	1218.6	1269.3	1316.6	1324.2	1317.4	1289.6	1256.6	1258.3
37.5°	4518.9	3651.7	1374.8	1177.2	1219.4	1250.7	1241.4	1239.7	1242.3	1203.5	1205.9
40°	4909.1	3818.8	1264.2	1145.1	1179.0	1185.7	1159.5	1173.8	1186.5	1127.4	1129.1
42.5°	5342.3	4020.7	1194.1	1123.2	1145.1	1129.1	1088.6	1104.6	1102.9	1025.2	1024.4
45°	5784.0	4240.2	1169.6	1107.1	1113.9	1081.8	1037.1	1041.3	1005.8	935.7	938.3
47.5°	6223.2	4475.9	1184.8	1093.7	1075.0	1038.7	1004.1	985.5	933.2	880.8	880.8
50°	6653.9	4723.3	1240.6	1066.6	1021.8	1000.7	975.4	942.5	886.7	841.9	838.6
52.5°	7053.3	4972.5	1303.1	1021.8	955.1	967.8	951.7	913.8	858.8	813.2	814.1
55°	7431.7	5221.6	1327.6	960.2	892.7	939.1	929.8	859.7	793.9	756.7	753.3
57.5°	7843.7	5521.4	1300.5	881.7	841.9	906.2	870.6	792.9	755.0	727.1	724.6
60°	8414.6	5991.7	1242.3	784.5	793.9	857.2	796.3	764.2	722.9	691.7	689.9
62.5°	9363.0	6869.2	1148.5	688.3	737.3	784.5	760.9	728.8	686.5	656.2	656.2
65°	10764.9	8088.7	972.0	613.2	673.9	713.6	722.9	690.8	646.9	614.8	616.5
67.5°	11947.2	8853.7	735.5	550.6	608.8	656.2	682.3	651.1	604.6	573.4	574.3
70°	11882.2	8298.1	561.6	488.9	551.4	599.6	633.3	608.8	559.0	529.5	532.1
72.5°	10553.8	6941.8	454.4	426.5	493.2	540.5	581.0	562.4	511.8	483.1	483.1
75°	7753.4	4927.7	363.2	363.2	420.6	478.9	523.6	511.8	465.4	445.1	439.1
77.5°	3268.2	2067.3	284.6	301.5	349.6	411.2	467.0	471.2	430.7	456.0	413.8
80°	869.0	570.0	217.0	237.3	274.5	339.5	406.2	404.6	360.6	336.9	313.3
82.5°	331.1	224.7	154.6	167.2	198.4	260.1	321.7	331.9	288.0	249.2	249.2
85°	127.5	96.2	95.4	100.4	115.7	172.3	243.2	251.6	217.0	184.1	190.0
87.5°	32.9	28.7	35.5	33.8	53.2	92.0	139.3	144.4	132.6	76.9	109.8
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)