

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: P967641

Luminaire Tested: **NAV-SB5A-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967641
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-SB5A-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19010.7 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

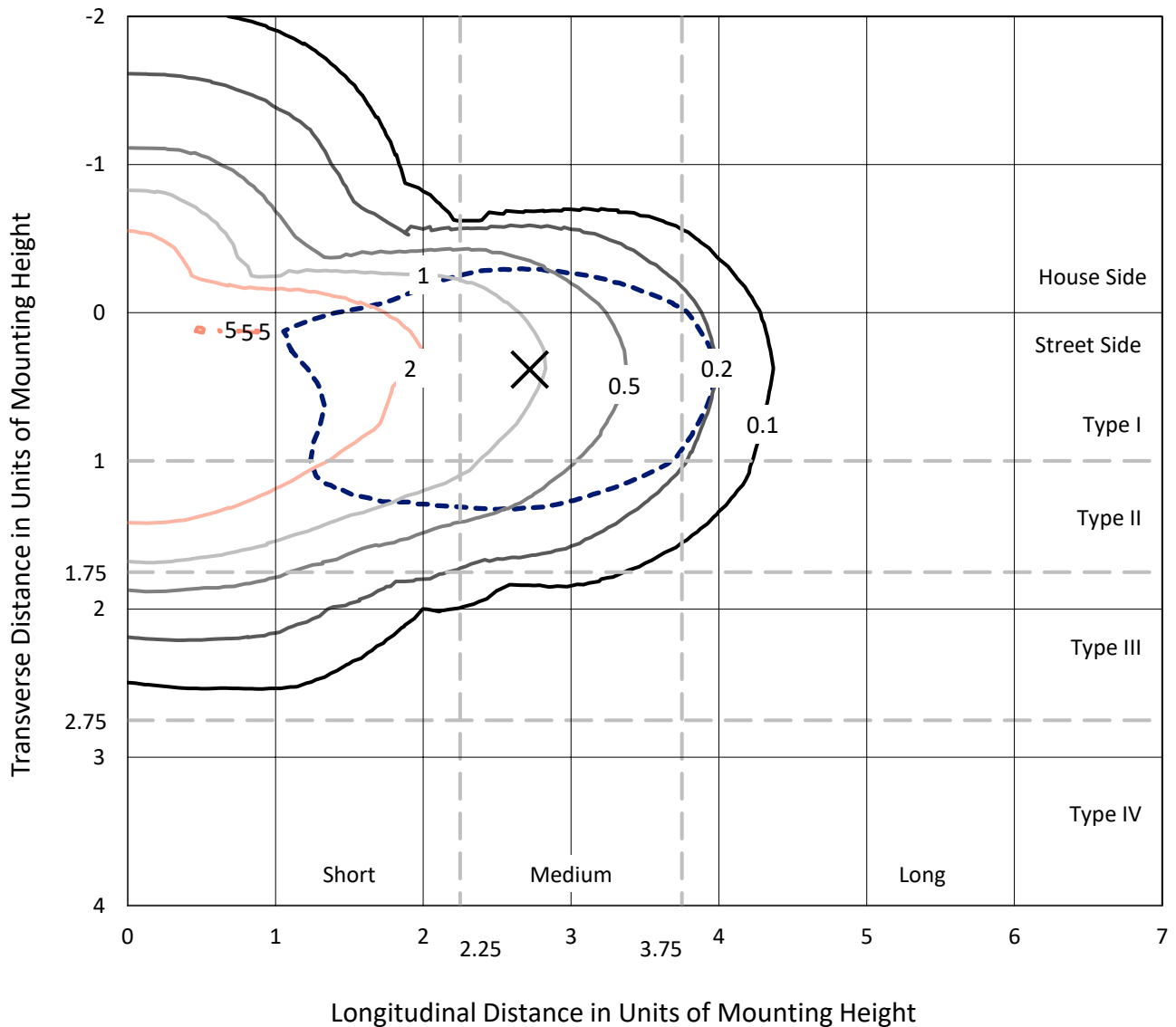
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

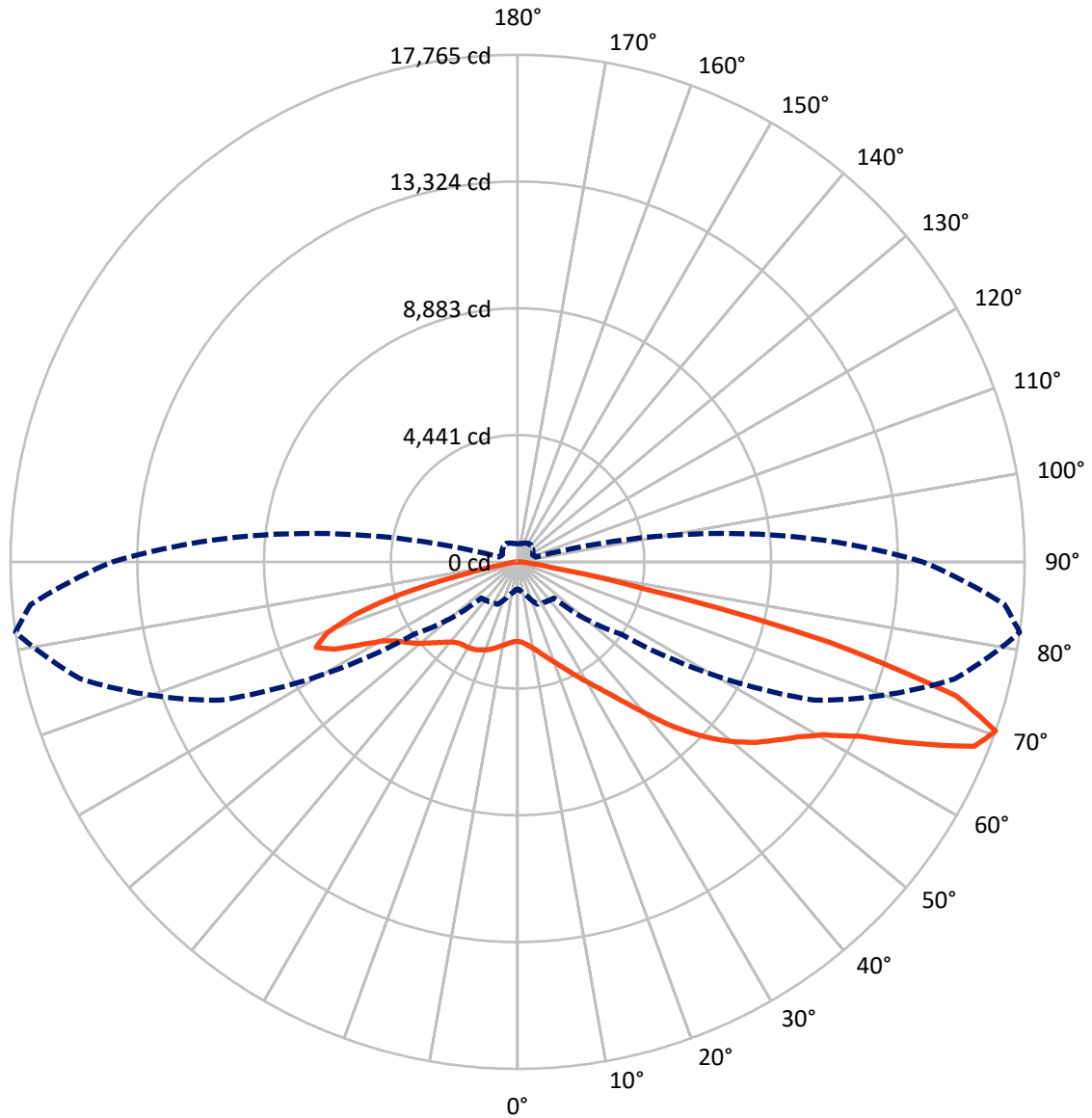
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	4686.6	0.0	4686.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	14324.1	0.0	14324.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	19010.7	0.0	19010.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	1.4
10°-20°	756.1	4.0
20°-30°	1264.8	6.7
30°-40°	1976.0	10.4
40°-50°	3147.0	16.6
50°-60°	4379.5	23.0
60°-70°	4581.1	24.1
70°-80°	2394.3	12.6
80°-90°	248.6	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°	19010.7	100.0
0°-180°	19010.7	100.0

Coefficient of Utilization

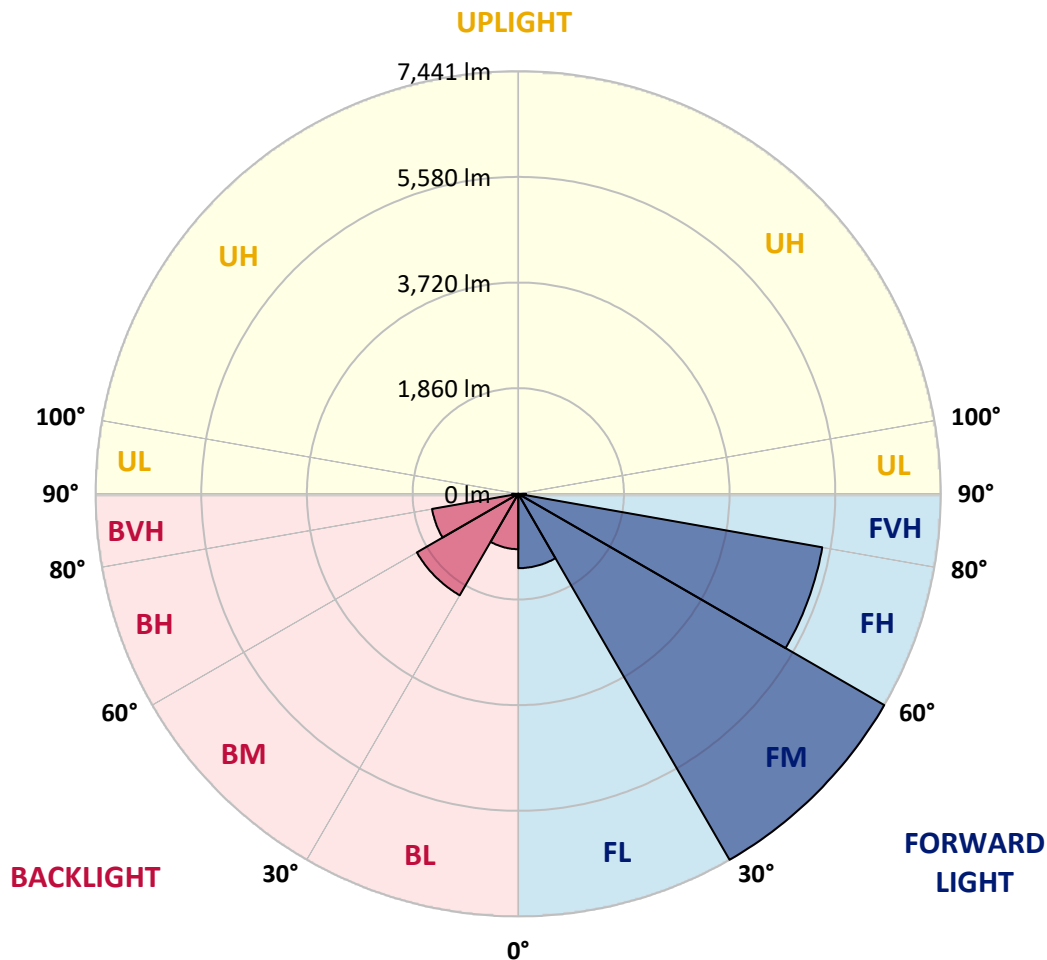


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1309.1	6.9			
FM (30°-60°)	7440.6	39.1			
FH (60°-80°)	5435.2	28.6			G3/7500
FVH (80°-90°)	139.2	0.7			G2/225
BL (0°-30°)	975.0	5.1	B2/1000		
BM (30°-60°)	2061.9	10.8	B2/2500		
BH (60°-80°)	1540.3	8.1	B3/2500		G3/2500
BVH (80°-90°)	109.4	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2
2.5°	2853.8	2869.9	2864.9	2859.9	2859.9	2852.8	2851.8	2841.7	2833.6	2820.5	2817.4
5°	2890.1	2907.2	2905.3	2909.3	2922.4	2925.5	2928.4	2922.4	2906.3	2890.1	2883.0
7.5°	2857.8	2877.0	2883.0	2907.2	2947.6	2983.9	3011.1	3022.2	3007.1	2983.9	2972.8
10°	2748.8	2770.1	2791.3	2848.8	2920.3	3006.1	3078.7	3122.1	3119.1	3096.9	3077.8
12.5°	2528.0	2550.1	2595.5	2707.5	2838.6	2989.9	3125.1	3215.9	3247.2	3231.1	3197.8
15°	2351.5	2370.6	2404.9	2519.9	2690.3	2920.3	3142.2	3318.8	3398.5	3389.5	3349.1
17.5°	2346.3	2354.4	2375.6	2430.1	2561.3	2811.4	3124.1	3419.7	3572.0	3571.0	3520.6
20°	2435.2	2438.2	2450.3	2461.3	2536.1	2728.7	3077.8	3503.4	3766.7	3766.7	3712.2
22.5°	2558.2	2556.2	2568.3	2558.2	2594.5	2721.7	3048.5	3577.0	3983.6	3999.8	3931.2
25°	2742.8	2732.8	2729.7	2706.5	2713.6	2787.2	3080.7	3660.8	4240.8	4274.1	4188.4
27.5°	2989.0	2972.8	2961.7	2908.2	2890.1	2922.4	3179.7	3761.6	4527.3	4584.8	4475.9
30°	3309.7	3280.5	3264.3	3171.6	3106.0	3111.0	3328.9	3895.8	4826.9	4919.7	4781.5
32.5°	3747.5	3702.2	3658.7	3506.4	3386.4	3347.0	3521.6	4081.4	5151.8	5300.1	5122.4
35°	4237.8	4201.5	4155.0	3920.0	3735.4	3644.7	3781.8	4340.7	5532.0	5767.1	5536.0
37.5°	4709.9	4678.6	4700.9	4384.0	4146.0	4013.9	4122.8	4688.8	6001.1	6348.1	6054.6
40°	5198.2	5173.9	5177.0	4874.3	4596.9	4448.6	4536.3	5125.5	6538.8	7039.1	6678.0
42.5°	5728.7	5710.6	5650.1	5381.8	5070.1	4931.8	5012.6	5629.9	7115.8	7826.0	7362.0
45°	6322.9	6311.8	6255.3	5947.7	5590.6	5435.2	5544.1	6186.7	7695.8	8566.3	8048.9
47.5°	6836.3	6845.5	6838.4	6579.2	6208.9	5981.0	6111.0	6767.8	8235.5	9262.4	8707.6
50°	7083.5	7130.9	7200.5	7119.9	6889.8	6657.8	6683.0	7328.6	8750.0	9915.1	9339.1
52.5°	6954.4	7044.2	7233.8	7363.0	7451.7	7403.3	7335.7	7885.4	9234.2	10504.2	9936.2
55°	6473.2	6599.3	6914.0	7225.7	7678.7	8030.8	8119.5	8502.8	9706.2	11022.7	10501.2
57.5°	5596.6	5801.4	6083.8	6714.3	7477.0	8334.4	9033.4	9359.3	10206.6	11576.6	11092.3
60°	4093.5	4367.9	4719.0	5657.1	6770.8	8171.9	9811.2	10674.7	10917.8	12293.7	11862.0
62.5°	2619.8	2789.2	3112.0	3995.7	5275.8	7339.7	10049.3	12319.0	12123.3	13469.9	13016.1
65°	1793.5	1902.5	2198.1	2694.4	3410.6	5463.5	9411.8	13551.6	14037.9	15334.2	14989.2
67.5°	1303.3	1386.0	1638.3	2073.0	2222.3	3233.1	7303.4	13495.2	15899.1	17254.8	16718.2
70°	950.3	1008.8	1220.6	1638.3	1709.8	1798.6	4424.4	11471.6	15858.7	17765.3	17122.7
72.5°	704.1	744.5	886.7	1271.0	1384.1	1214.5	2190.0	8337.3	13627.4	16068.5	15553.0
75°	509.4	539.7	644.6	972.4	1107.6	925.1	1092.4	4872.3	9505.5	11303.2	11393.9
77.5°	389.4	412.6	481.1	712.2	886.7	694.0	677.9	2241.5	4507.1	4529.4	4783.6
80°	312.7	327.9	365.2	501.3	679.9	519.5	441.9	904.9	1424.3	1205.5	1265.0
82.5°	230.0	255.2	308.7	352.1	486.3	358.1	269.4	456.9	541.7	466.1	470.1
85°	131.1	148.3	186.7	252.2	310.7	218.9	154.4	202.7	252.2	206.8	184.6
87.5°	46.4	60.5	65.6	98.8	135.2	90.8	59.6	58.5	82.7	61.5	51.5
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°	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2	2787.2
2.5°	2807.4	2802.4	2782.2	2754.9	2726.7	2699.4	2690.3	2671.1	2658.1	2651.1	2659.1
5°	2863.8	2847.8	2800.3	2739.8	2676.3	2607.6	2559.2	2514.8	2482.5	2452.3	2464.4
7.5°	2944.6	2916.3	2834.6	2728.7	2615.7	2501.7	2417.0	2352.5	2309.0	2280.8	2286.9
10°	3038.4	2995.0	2869.9	2711.5	2537.1	2373.6	2273.8	2218.3	2191.0	2175.9	2180.0
12.5°	3146.3	3084.7	2906.3	2672.2	2417.0	2230.4	2161.7	2145.6	2146.7	2147.7	2149.6
15°	3279.5	3193.7	2935.5	2586.5	2260.6	2120.4	2108.3	2134.6	2161.7	2174.8	2173.9
17.5°	3429.8	3308.7	2940.5	2445.2	2107.3	2049.8	2088.1	2144.6	2186.0	2204.2	2208.2
20°	3591.2	3425.8	2904.2	2245.5	1981.2	1992.3	2060.9	2133.5	2178.9	2202.1	2208.2
22.5°	3775.8	3550.8	2817.4	2035.6	1878.3	1929.8	2010.4	2081.1	2128.5	2151.7	2157.7
25°	3986.6	3691.0	2681.3	1859.1	1789.5	1859.1	1939.8	1998.3	2036.7	2057.9	2063.9
27.5°	4220.6	3837.3	2499.7	1718.9	1711.9	1786.5	1853.1	1898.5	1918.7	1934.8	1940.8
30°	4455.7	3970.4	2279.8	1613.0	1644.3	1714.9	1762.3	1782.5	1788.5	1791.6	1798.6
32.5°	4709.9	4085.4	2048.8	1525.2	1579.7	1645.3	1673.5	1682.6	1654.4	1635.2	1641.2
35°	5017.6	4208.5	1822.9	1455.6	1516.2	1572.7	1581.8	1573.7	1540.4	1501.0	1503.1
37.5°	5397.9	4361.9	1642.3	1406.2	1456.6	1493.9	1482.9	1480.8	1483.9	1437.5	1440.5
40°	5863.9	4561.7	1510.1	1367.9	1408.2	1416.3	1385.0	1402.2	1417.3	1346.6	1348.7
42.5°	6381.4	4802.7	1426.4	1341.6	1367.9	1348.7	1300.3	1319.5	1317.4	1224.7	1223.6
45°	6909.0	5064.9	1397.2	1322.5	1330.6	1292.2	1238.7	1243.8	1201.4	1117.7	1120.7
47.5°	7433.5	5346.4	1415.3	1306.4	1284.1	1240.8	1199.5	1177.2	1114.7	1052.2	1052.2
50°	7948.1	5642.0	1481.8	1274.1	1220.6	1195.4	1165.1	1125.8	1059.2	1005.7	1001.7
52.5°	8425.2	5939.6	1556.6	1220.6	1140.9	1156.0	1136.8	1091.5	1025.9	971.4	972.4
55°	8877.1	6237.1	1585.8	1147.0	1066.3	1121.8	1110.7	1026.9	948.2	903.8	899.8
57.5°	9369.3	6595.3	1553.5	1053.2	1005.7	1082.4	1040.1	947.2	901.8	868.6	865.5
60°	10051.3	7157.2	1483.9	937.2	948.2	1023.9	951.3	913.0	863.5	826.2	824.2
62.5°	11184.1	8205.2	1372.0	822.2	880.7	937.2	908.9	870.5	820.1	783.8	783.8
65°	12858.6	9661.9	1161.1	732.4	805.0	852.4	863.5	825.1	772.7	734.4	736.4
67.5°	14271.0	10575.8	878.6	657.7	727.3	783.8	815.1	777.8	722.3	684.9	685.9
70°	14193.3	9912.1	670.9	584.0	658.8	716.3	756.6	727.3	667.8	632.5	635.5
72.5°	12606.5	8292.0	542.7	509.4	589.1	645.6	694.0	671.8	611.3	577.0	577.0
75°	9261.4	5886.1	433.8	433.8	502.4	571.9	625.5	611.3	555.9	531.7	524.6
77.5°	3903.9	2469.4	340.0	360.1	417.6	491.3	557.8	562.9	514.4	544.7	494.3
80°	1038.0	680.9	259.2	283.4	327.9	405.5	485.2	483.2	430.7	402.5	374.2
82.5°	395.4	268.3	184.6	199.8	237.1	310.7	384.4	396.5	344.0	297.6	297.6
85°	152.3	115.0	114.0	120.0	138.2	205.8	290.5	300.6	259.2	219.9	226.9
87.5°	39.4	34.3	42.3	40.4	63.6	110.0	166.5	172.5	158.4	91.8	131.1
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)