

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: P964474

Luminaire Tested: **NAV-SB3C-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13893.9 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

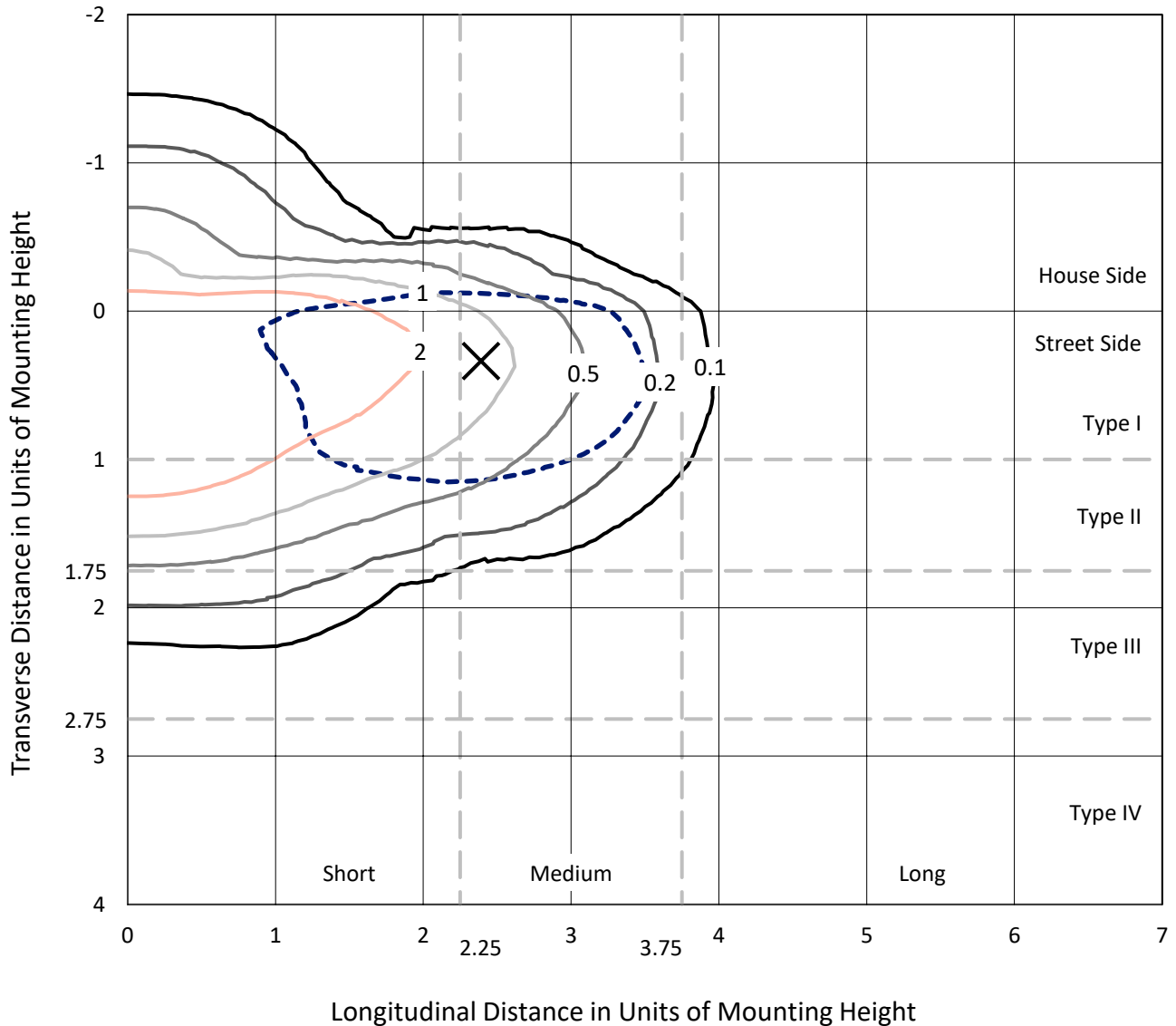
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

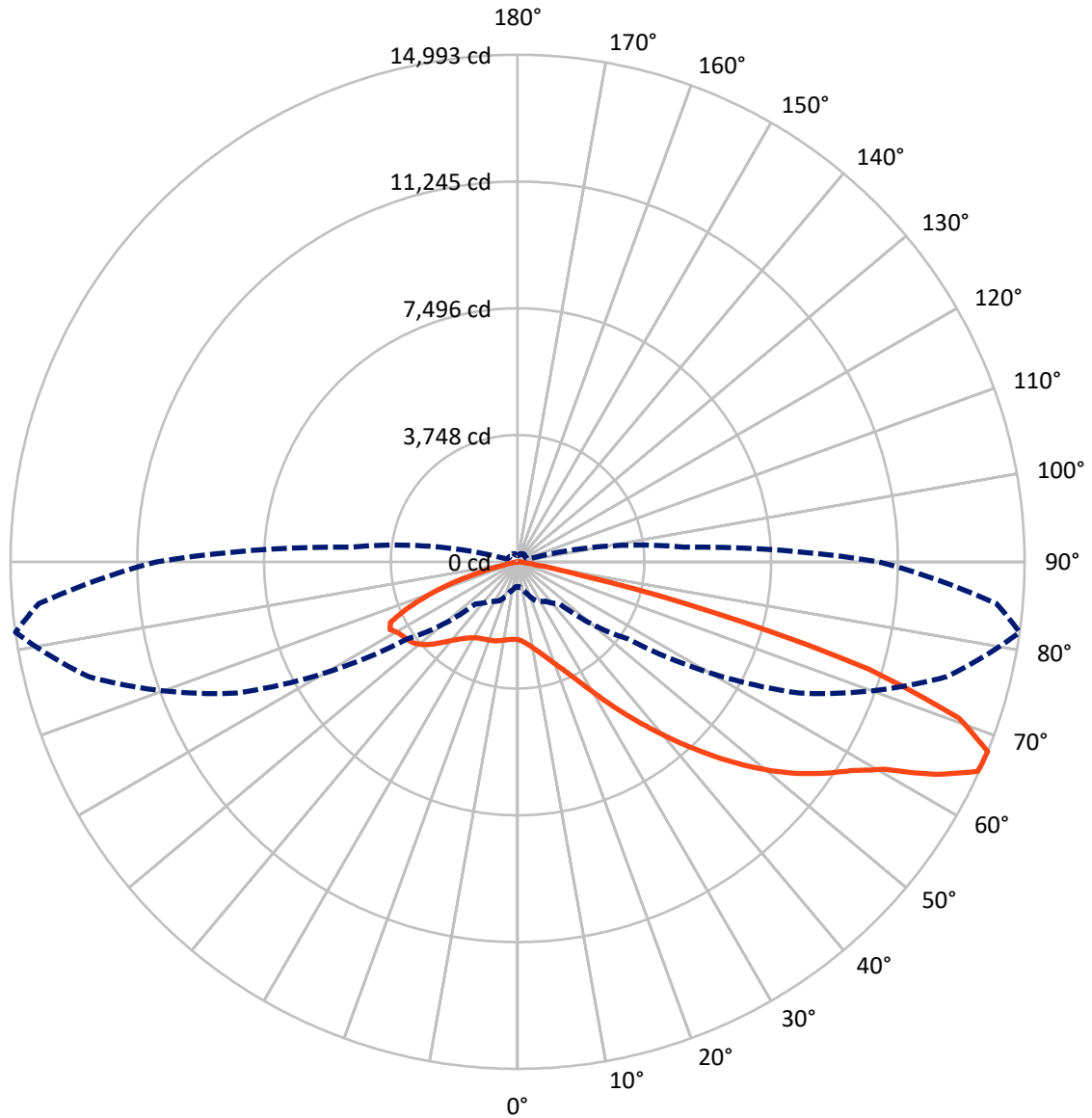
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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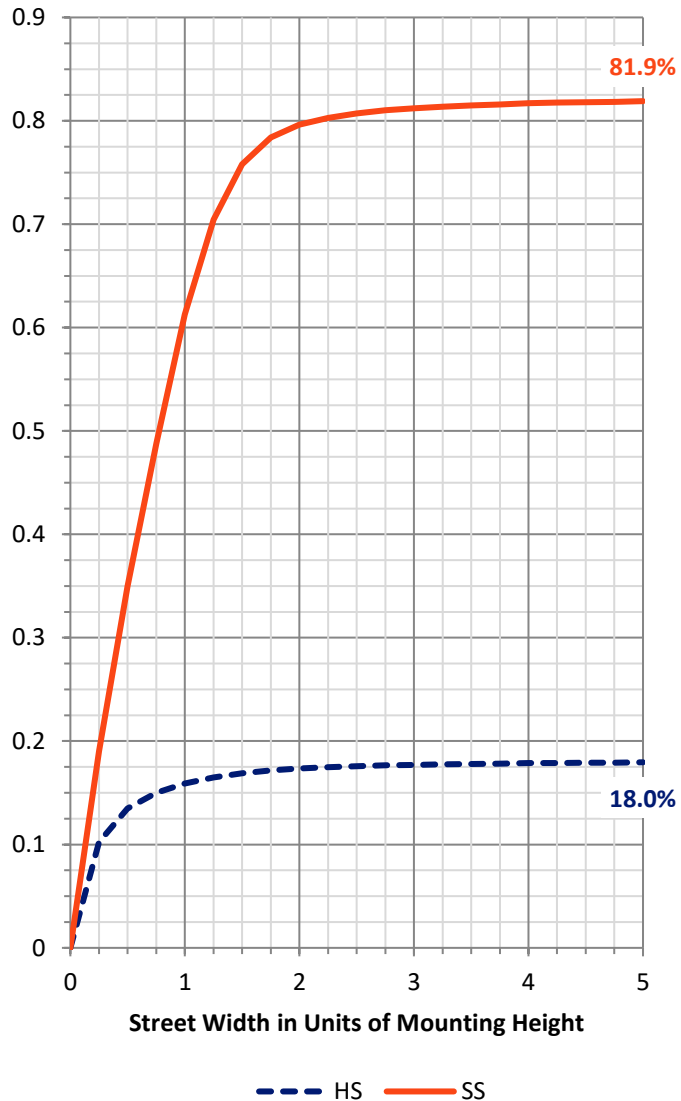
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2516.8	0.0	2516.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11377.1	0.0	11377.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	13893.9	0.0	13893.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.1	1.5
10°-20°	532.9	3.8
20°-30°	853.5	6.1
30°-40°	1509.3	10.9
40°-50°	2644.4	19.0
50°-60°	3526.9	25.4
60°-70°	3283.4	23.6
70°-80°	1260.1	9.1
80°-90°	78.3	0.6
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°	13893.9	100.0
0°-180°	13893.9	100.0

Coefficient of Utilization



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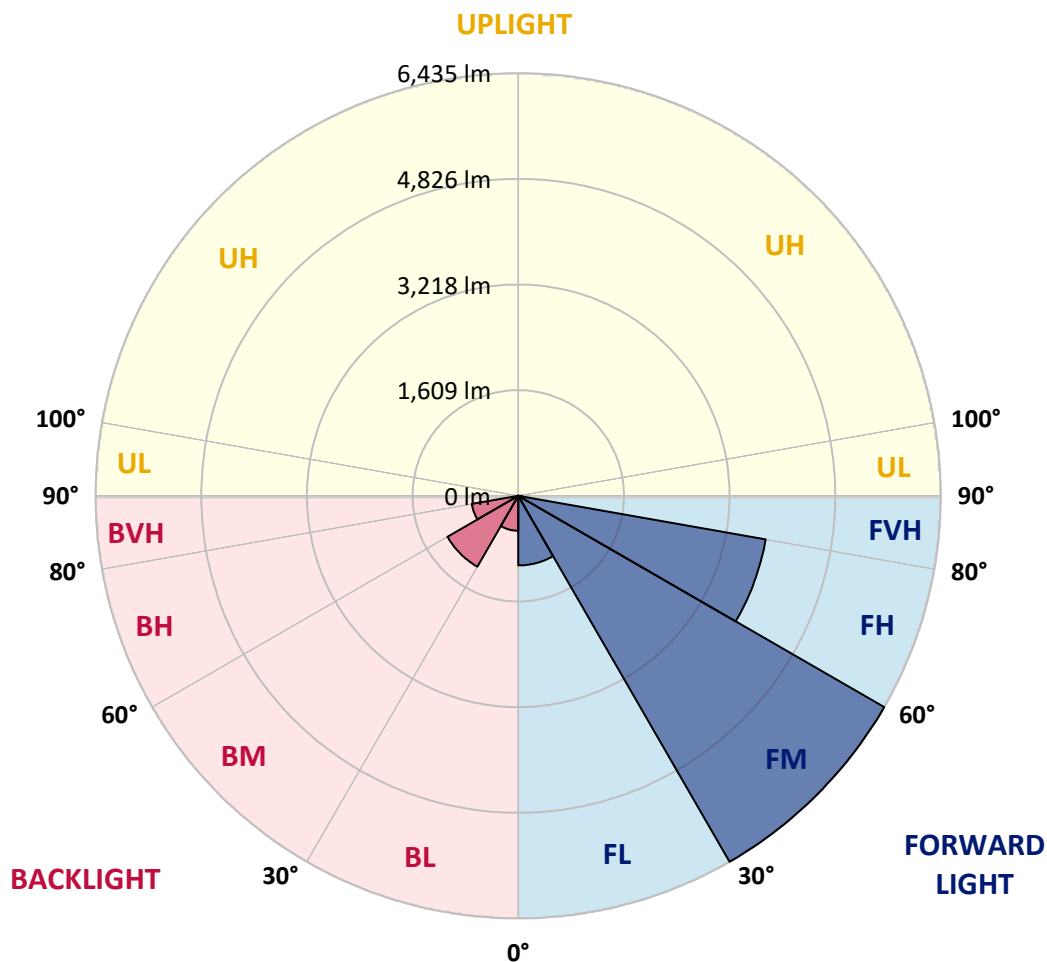
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1059.9	7.6			
FM (30°-60°)	6435.1	46.3			
FH (60°-80°)	3825.2	27.5			G2/5000
FVH (80°-90°)	56.9	0.4			G1/100
BL (0°-30°)	531.5	3.8	B2/1000		
BM (30°-60°)	1245.5	9.0	B2/2500		
BH (60°-80°)	718.3	5.2	B2/1000		G2/1000
BVH (80°-90°)	21.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7
2.5°	2432.8	2446.8	2438.8	2434.8	2427.8	2417.8	2409.8	2384.8	2358.7	2341.7	2335.8
5°	2481.8	2495.8	2494.8	2498.8	2503.8	2506.8	2504.8	2476.8	2439.8	2410.8	2393.8
7.5°	2439.8	2455.8	2468.8	2488.8	2523.9	2560.9	2578.8	2572.9	2534.8	2494.8	2473.8
10°	2320.7	2337.7	2368.8	2415.8	2489.8	2569.9	2636.8	2667.9	2643.9	2599.8	2570.8
12.5°	2102.7	2119.7	2180.7	2282.8	2406.8	2545.8	2673.8	2756.9	2762.9	2718.9	2684.9
15°	1857.6	1874.6	1939.6	2067.6	2256.7	2479.8	2693.9	2850.9	2903.9	2865.9	2824.9
17.5°	1705.6	1720.6	1769.6	1872.6	2069.7	2347.8	2686.8	2951.0	3072.0	3042.0	2993.0
20°	1659.6	1672.5	1695.6	1767.6	1931.6	2210.7	2640.8	3045.0	3253.0	3236.0	3181.0
22.5°	1708.6	1720.6	1727.5	1759.6	1862.6	2120.7	2582.8	3141.0	3463.2	3465.1	3398.1
25°	1821.6	1833.6	1825.6	1845.6	1890.6	2092.6	2560.9	3254.1	3727.2	3749.2	3673.2
27.5°	2007.7	2008.7	1989.6	1988.6	1995.7	2134.7	2583.8	3375.1	4060.3	4101.3	4007.3
30°	2380.8	2365.8	2292.7	2213.7	2177.7	2260.7	2647.9	3518.1	4453.4	4526.5	4408.4
32.5°	2956.0	2934.0	2799.9	2610.9	2420.7	2463.8	2762.9	3681.2	4881.6	5013.6	4869.6
35°	3580.1	3574.2	3434.2	3153.0	2820.9	2752.8	2950.0	3895.3	5348.8	5558.8	5387.7
37.5°	4160.4	4157.3	4077.3	3746.2	3342.1	3156.0	3250.1	4175.3	5848.9	6153.0	5950.9
40°	4690.5	4699.5	4619.5	4323.4	3916.2	3673.2	3658.2	4521.5	6405.1	6800.2	6560.1
42.5°	5148.7	5158.6	5077.6	4858.6	4483.5	4245.3	4159.3	4945.6	6948.3	7495.4	7211.3
45°	5459.8	5521.8	5509.8	5334.7	5065.7	4818.5	4761.5	5477.8	7567.5	8232.7	7899.6
47.5°	5547.8	5604.8	5694.8	5718.9	5554.8	5311.8	5379.7	6118.9	8193.6	8970.9	8591.8
50°	5330.7	5383.7	5570.8	5819.8	5933.9	5858.9	5981.0	6806.2	8834.9	9707.2	9271.0
52.5°	4902.6	4956.6	5192.6	5586.8	6051.9	6288.1	6584.1	7483.4	9456.0	10404.4	9914.2
55°	4283.4	4340.4	4643.5	5089.6	5826.9	6465.1	7087.3	8159.6	10025.2	11031.6	10494.4
57.5°	3441.1	3483.2	3798.2	4422.5	5260.7	6289.0	7458.4	8897.9	10561.4	11647.8	11069.6
60°	2242.7	2279.7	2645.8	3342.1	4322.4	5700.8	7532.4	9721.1	11273.7	12449.0	11844.8
62.5°	1491.5	1516.5	1733.6	2244.8	3043.9	4571.5	7099.3	10378.3	12317.9	13843.4	13174.2
65°	1023.4	1048.4	1265.4	1621.6	1966.7	3024.0	5853.9	10291.3	13264.3	14950.9	14159.6
67.5°	730.2	751.2	935.3	1271.4	1423.4	1756.5	3968.3	9179.0	13128.2	14992.9	14212.6
70°	523.2	535.2	687.3	990.4	1131.4	1055.3	2206.7	7020.2	11494.8	13844.5	13130.2
72.5°	366.1	370.1	477.1	754.2	911.3	770.3	1050.3	4680.6	8693.8	10866.5	10179.3
75°	248.0	253.1	321.1	553.2	731.2	588.1	556.2	2509.8	5103.7	6014.9	5391.7
77.5°	152.0	154.1	207.0	378.1	547.1	448.1	358.1	1063.3	1974.7	1938.6	1652.5
80°	86.0	86.0	132.0	235.0	373.1	289.0	251.1	452.1	625.2	549.2	484.1
82.5°	48.0	49.0	96.0	146.1	247.1	171.1	138.1	209.1	270.1	239.0	208.1
85°	20.0	22.0	59.0	69.0	118.1	85.1	56.1	88.0	100.0	89.1	65.0
87.5°	2.0	3.0	18.0	13.0	14.0	17.0	8.0	17.0	14.0	14.0	10.0
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°	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7
2.5°	2316.7	2301.7	2263.7	2219.7	2161.7	2133.6	2095.7	2069.7	2047.6	2049.7	2029.7
5°	2361.8	2323.8	2238.7	2132.7	2000.7	1906.6	1806.6	1737.6	1681.5	1669.5	1642.6
7.5°	2423.8	2363.8	2214.7	2023.7	1800.6	1631.5	1480.5	1383.4	1314.5	1292.4	1270.4
10°	2503.8	2416.7	2183.7	1886.6	1565.5	1350.4	1188.4	1112.3	1065.4	1049.3	1037.3
12.5°	2596.8	2477.8	2142.7	1719.5	1323.4	1116.3	1013.3	975.3	960.3	955.3	952.3
15°	2713.9	2553.8	2080.6	1521.5	1118.4	973.3	929.3	924.3	926.3	924.3	923.3
17.5°	2852.9	2636.8	1979.7	1317.4	980.3	900.3	884.3	888.3	893.3	892.3	890.3
20°	3005.0	2718.9	1850.6	1136.4	886.3	848.3	839.3	843.3	847.3	845.3	844.3
22.5°	3178.0	2806.9	1707.5	995.3	823.3	800.2	790.3	791.3	791.3	787.3	785.3
25°	3385.1	2903.9	1557.5	895.3	775.2	757.3	745.3	741.3	735.2	723.2	721.2
27.5°	3632.2	3006.9	1413.5	825.2	737.3	720.3	706.2	696.2	681.2	661.2	659.2
30°	3910.3	3132.0	1291.4	781.3	707.2	690.2	674.2	659.2	637.2	612.2	610.2
32.5°	4237.3	3266.1	1202.4	752.2	680.2	662.3	643.2	625.2	601.2	576.2	577.2
35°	4627.5	3428.1	1150.4	732.3	659.2	635.2	614.2	594.2	576.2	554.2	552.2
37.5°	5050.6	3600.2	1134.4	722.2	645.2	608.2	584.1	570.2	568.2	555.1	554.2
40°	5513.8	3804.2	1146.4	716.3	630.2	582.2	556.2	553.2	558.2	535.2	536.2
42.5°	6003.9	4046.3	1166.3	709.2	609.2	556.2	531.2	531.2	527.2	495.2	495.2
45°	6534.1	4325.4	1186.3	692.2	584.1	530.1	511.2	504.2	487.2	456.1	455.1
47.5°	7068.3	4609.5	1201.4	661.2	554.2	508.2	491.2	475.2	450.2	422.1	421.2
50°	7575.5	4864.5	1185.4	615.2	520.2	487.2	469.1	447.1	420.1	401.1	398.1
52.5°	8028.6	5085.6	1117.4	561.2	484.1	465.1	449.2	426.1	404.2	384.2	382.1
55°	8422.7	5264.7	997.3	510.1	452.1	446.2	430.1	401.1	371.2	354.1	352.1
57.5°	8800.9	5400.7	847.3	468.1	423.1	425.2	401.1	375.2	347.1	329.1	327.1
60°	9304.0	5582.8	695.3	429.2	392.2	398.1	372.1	353.1	318.1	295.1	292.1
62.5°	10108.2	5865.9	552.2	381.1	356.1	358.1	347.1	324.1	282.1	255.1	253.1
65°	10746.5	5761.8	435.1	329.1	315.1	318.1	318.1	293.0	248.0	217.1	214.0
67.5°	10674.5	4933.6	347.1	278.1	276.1	278.1	285.1	264.0	220.1	195.1	191.1
70°	9833.1	3924.3	278.1	231.0	240.1	235.0	255.1	241.1	198.0	173.0	170.0
72.5°	8023.6	2827.0	212.1	191.1	184.1	192.1	230.1	217.1	165.0	137.0	134.1
75°	4688.6	1508.5	158.1	151.1	133.0	160.0	204.1	185.0	126.1	101.1	98.0
77.5°	1526.5	526.1	116.0	111.0	99.0	129.0	174.0	156.0	103.0	80.1	77.0
80°	409.2	159.1	79.0	73.0	64.1	96.0	138.1	124.0	74.0	52.0	51.0
82.5°	164.1	67.0	46.0	41.0	35.1	66.0	109.1	100.0	55.0	33.0	33.0
85°	53.0	22.0	17.0	13.0	16.0	41.0	65.0	68.1	39.1	17.0	13.0
87.5°	7.0	3.0	3.0	4.0	3.0	7.0	20.0	19.0	11.0	2.0	0.0
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)