

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: P969744

Luminaire Tested: **NAV-SB6A-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969744
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-SB6A-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA 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: 16819.2 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

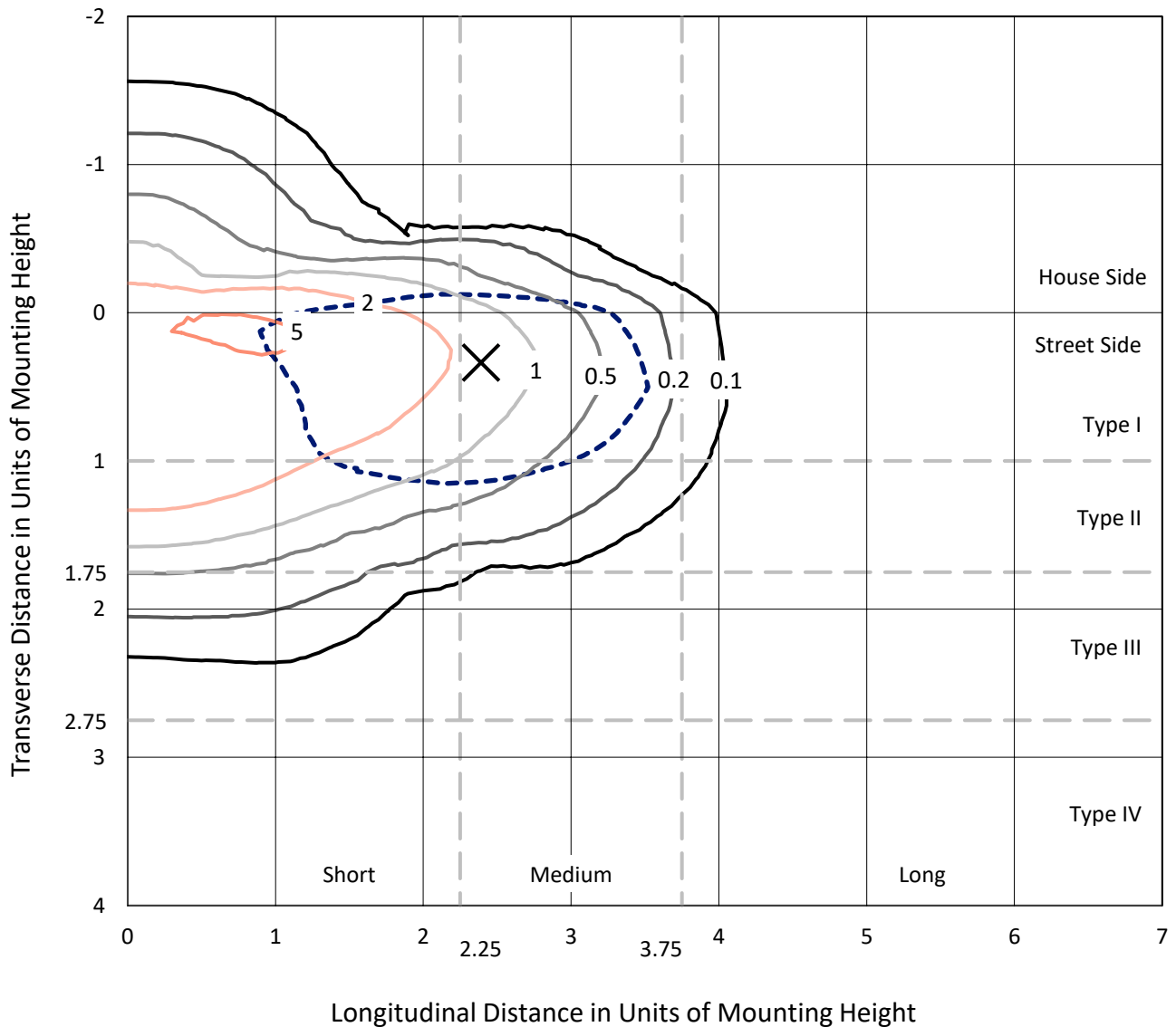
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

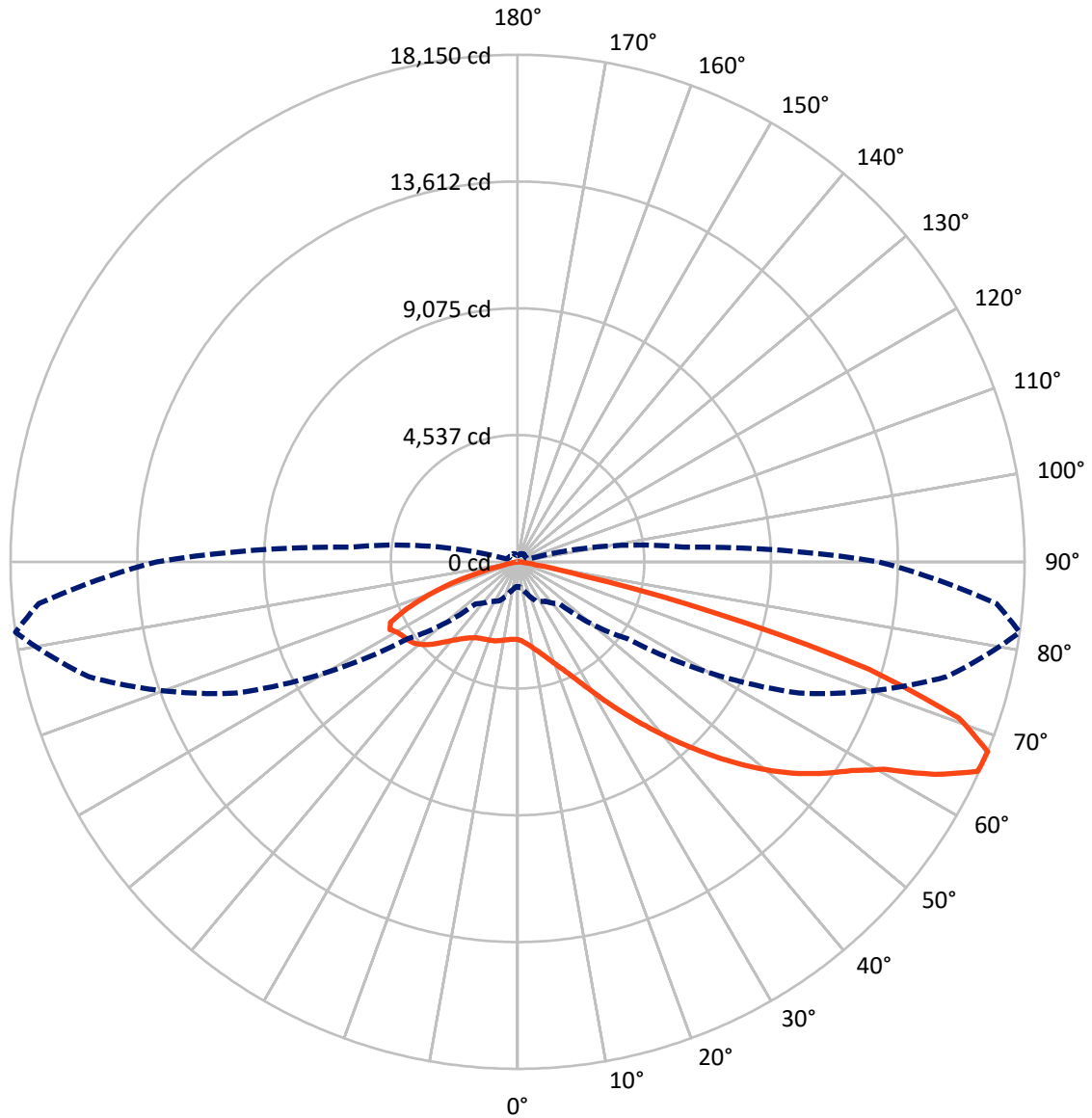
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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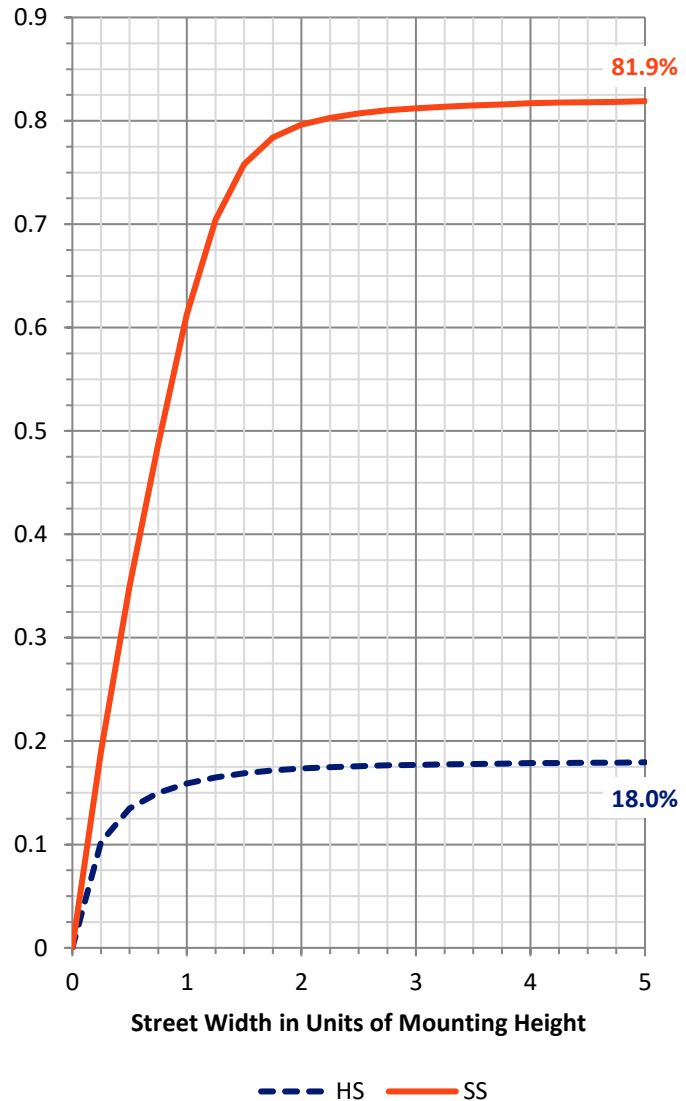
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3046.6	0.0	3046.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13772.6	0.0	13772.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	16819.2	0.0	16819.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	1.5
10°-20°	645.1	3.8
20°-30°	1033.2	6.1
30°-40°	1827.1	10.9
40°-50°	3201.2	19.0
50°-60°	4269.5	25.4
60°-70°	3974.7	23.6
70°-80°	1525.5	9.1
80°-90°	94.7	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°	16819.2	100.0
0°-180°	16819.2	100.0

Coefficient of Utilization



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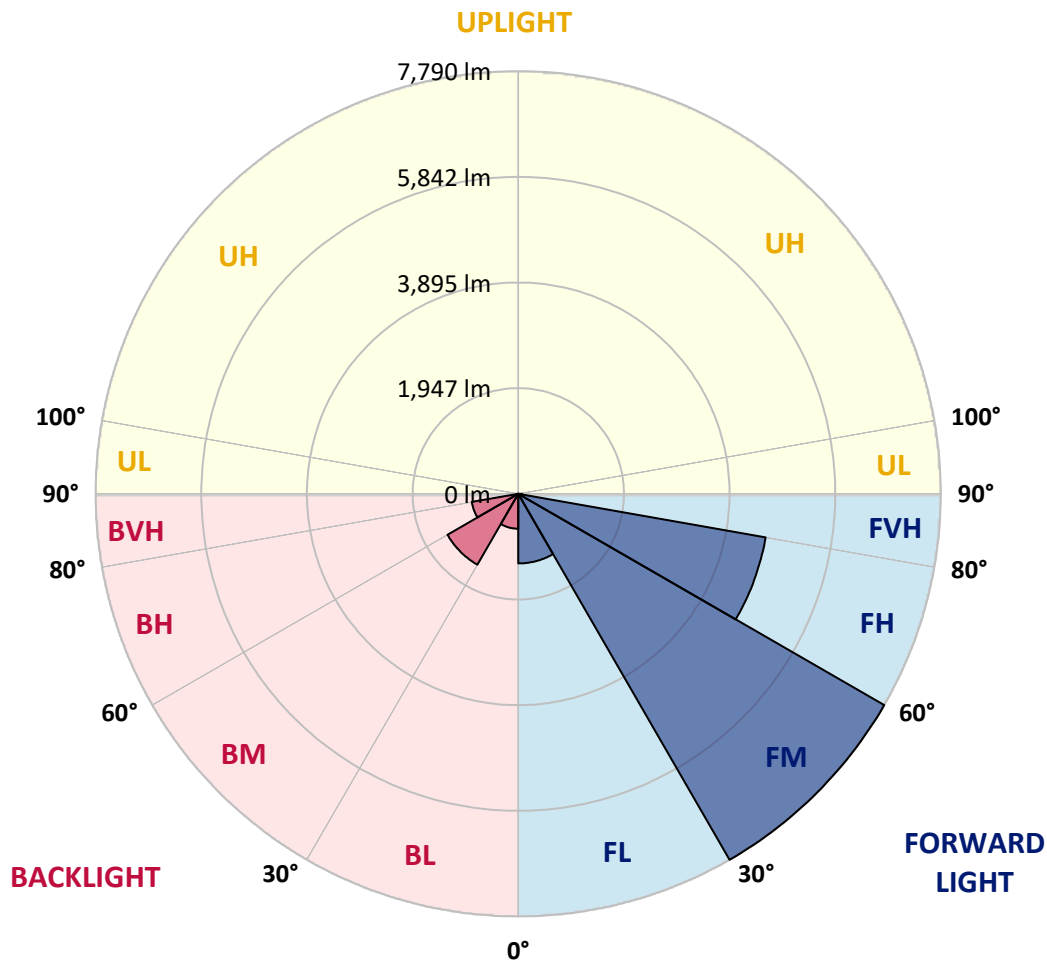
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1283.1	7.6			
FM (30°-60°)	7790.0	46.3			
FH (60°-80°)	4630.6	27.5			G2/5000
FVH (80°-90°)	68.9	0.4			G1/100
BL (0°-30°)	643.4	3.8	B2/1000		
BM (30°-60°)	1507.8	9.0	B2/2500		
BH (60°-80°)	869.6	5.2	B2/1000		G2/1000
BVH (80°-90°)	25.9	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°	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4
2.5°	2945.0	2961.9	2952.3	2947.4	2939.0	2926.9	2917.1	2886.9	2855.4	2834.8	2827.6
5°	3004.4	3021.3	3020.1	3025.0	3031.0	3034.6	3032.2	2998.3	2953.5	2918.4	2897.8
7.5°	2953.5	2972.9	2988.6	3012.8	3055.2	3100.0	3121.8	3114.6	3068.5	3020.1	2994.6
10°	2809.4	2829.9	2867.5	2924.4	3014.0	3110.9	3192.1	3229.6	3200.6	3147.3	3112.1
12.5°	2545.4	2566.0	2639.9	2763.4	2913.6	3081.9	3236.8	3337.4	3344.6	3291.4	3250.2
15°	2248.7	2269.4	2348.0	2503.0	2731.9	3001.9	3261.0	3451.2	3515.3	3469.3	3419.7
17.5°	2064.7	2082.8	2142.1	2266.9	2505.4	2842.1	3252.6	3572.2	3718.8	3682.5	3623.2
20°	2009.0	2024.7	2052.6	2139.7	2338.3	2676.2	3196.9	3686.1	3937.9	3917.3	3850.8
22.5°	2068.2	2082.8	2091.3	2130.1	2254.8	2567.2	3126.7	3802.3	4192.2	4194.7	4113.5
25°	2205.1	2219.6	2210.0	2234.2	2288.7	2533.3	3100.0	3939.2	4511.9	4538.6	4446.6
27.5°	2430.4	2431.6	2408.5	2407.3	2415.8	2584.1	3127.9	4085.8	4915.2	4964.9	4851.0
30°	2882.0	2863.8	2775.5	2679.9	2636.2	2736.7	3205.4	4258.9	5391.1	5479.5	5336.7
32.5°	3578.4	3551.7	3389.5	3160.6	2930.5	2982.5	3344.6	4456.3	5909.4	6069.2	5894.9
35°	4334.0	4326.7	4157.2	3816.9	3414.9	3332.5	3571.1	4715.4	6474.9	6729.2	6522.2
37.5°	5036.3	5032.6	4935.8	4535.0	4045.8	3820.5	3934.4	5054.5	7080.4	7448.5	7203.9
40°	5678.1	5689.0	5592.1	5233.6	4740.8	4446.6	4428.4	5473.5	7753.6	8232.0	7941.4
42.5°	6232.7	6244.8	6146.7	5881.6	5427.5	5139.2	5035.1	5986.9	8411.2	9073.6	8729.7
45°	6609.3	6684.4	6669.9	6457.9	6132.2	5833.1	5764.1	6631.1	9160.7	9966.1	9562.8
47.5°	6715.9	6784.9	6893.8	6923.0	6724.3	6430.1	6512.4	7407.4	9918.8	10859.8	10400.8
50°	6453.1	6517.3	6743.8	7045.2	7183.3	7092.5	7240.2	8239.3	10695.1	11751.0	11223.0
52.5°	5934.9	6000.2	6286.0	6763.2	7326.2	7612.0	7970.4	9059.1	11447.0	12595.0	12001.6
55°	5185.3	5254.3	5621.2	6161.3	7053.7	7826.3	8579.6	9877.6	12136.1	13354.2	12704.0
57.5°	4165.6	4216.5	4597.9	5353.6	6368.3	7613.2	9028.8	10771.3	12785.1	14100.2	13400.2
60°	2714.9	2759.7	3202.9	4045.8	5232.5	6901.1	9118.4	11767.9	13647.3	15070.2	14338.7
62.5°	1805.5	1835.8	2098.6	2717.4	3684.9	5534.0	8594.0	12563.5	14911.5	16758.2	15948.1
65°	1238.8	1269.1	1531.9	1963.0	2380.7	3660.7	7086.4	12458.2	16057.0	18098.7	17140.9
67.5°	884.0	909.4	1132.2	1539.1	1723.1	2126.4	4803.8	11111.6	15892.4	18149.6	17205.0
70°	633.3	647.9	831.9	1198.8	1369.6	1277.6	2671.4	8498.4	13914.9	16759.5	15894.8
72.5°	443.2	448.0	577.6	913.1	1103.2	932.4	1271.5	5666.0	10524.3	13154.4	12322.6
75°	300.3	306.4	388.7	669.6	885.2	712.1	673.3	3038.2	6178.2	7281.4	6527.0
77.5°	184.1	186.4	250.7	457.8	662.4	542.5	433.5	1287.2	2390.4	2346.8	2000.5
80°	104.1	104.1	159.8	284.5	451.7	349.9	303.9	547.3	756.9	664.8	586.1
82.5°	58.1	59.3	116.2	176.8	299.1	207.0	167.1	253.1	327.0	289.5	251.8
85°	24.2	26.6	71.4	83.5	142.9	102.9	67.9	106.6	121.1	107.7	78.7
87.5°	2.5	3.6	21.8	15.8	16.9	20.6	9.7	20.6	16.9	16.9	12.1
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°	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4
2.5°	2804.5	2786.4	2740.3	2687.0	2616.8	2582.9	2536.9	2505.4	2478.8	2481.2	2457.0
5°	2859.0	2813.0	2710.1	2581.8	2421.9	2308.1	2186.9	2103.4	2035.5	2021.1	1988.4
7.5°	2934.1	2861.5	2681.0	2449.8	2179.7	1975.1	1792.2	1674.7	1591.2	1564.6	1537.9
10°	3031.0	2925.7	2643.5	2283.8	1895.1	1634.8	1438.6	1346.5	1289.7	1270.3	1255.7
12.5°	3143.6	2999.5	2593.9	2081.6	1602.1	1351.4	1226.7	1180.7	1162.6	1156.4	1152.8
15°	3285.3	3091.5	2518.7	1841.8	1353.8	1178.2	1124.9	1118.9	1121.4	1118.9	1117.7
17.5°	3453.6	3192.1	2396.4	1594.8	1186.7	1089.9	1070.5	1075.3	1081.4	1080.1	1077.8
20°	3637.6	3291.4	2240.2	1375.7	1072.9	1026.8	1016.0	1020.8	1025.7	1023.3	1022.0
22.5°	3847.1	3397.9	2067.1	1204.9	996.6	968.7	956.6	957.9	957.9	953.0	950.6
25°	4097.8	3515.3	1885.4	1083.8	938.5	916.7	902.1	897.3	890.0	875.6	873.1
27.5°	4396.9	3640.1	1711.0	999.1	892.5	871.9	855.0	842.9	824.6	800.4	798.0
30°	4733.6	3791.5	1563.3	945.8	856.2	835.6	816.2	798.0	771.4	741.1	738.7
32.5°	5129.5	3953.7	1455.6	910.6	823.5	801.7	778.6	756.9	727.7	697.5	698.7
35°	5601.8	4149.9	1392.6	886.4	798.0	769.0	743.5	719.3	697.5	670.9	668.4
37.5°	6114.0	4358.2	1373.2	874.3	781.0	736.3	707.1	690.2	687.8	672.1	670.9
40°	6674.7	4605.2	1387.7	867.0	762.9	704.8	673.3	669.6	675.7	647.9	649.0
42.5°	7268.1	4898.3	1411.9	858.5	737.5	673.3	643.0	643.0	638.2	599.4	599.4
45°	7909.8	5236.1	1436.1	837.9	707.1	641.8	618.8	610.3	589.7	552.2	550.9
47.5°	8556.5	5580.0	1454.4	800.4	670.9	615.2	594.6	575.2	544.9	511.1	509.8
50°	9170.5	5888.8	1435.0	744.8	629.7	589.7	568.0	541.3	508.6	485.5	482.0
52.5°	9719.0	6156.5	1352.6	679.4	586.1	563.1	543.8	515.9	489.2	465.0	462.6
55°	10196.1	6373.1	1207.3	617.6	547.3	540.1	520.7	485.5	449.3	428.7	426.3
57.5°	10653.8	6537.9	1025.7	566.7	512.2	514.7	485.5	454.1	420.1	398.4	396.0
60°	11263.0	6758.2	841.6	519.5	474.7	482.0	450.5	427.4	385.1	357.2	353.6
62.5°	12236.6	7101.0	668.4	461.4	431.1	433.5	420.1	392.4	341.5	308.8	306.4
65°	13009.1	6975.0	526.7	398.4	381.4	385.1	385.1	354.9	300.3	262.8	259.1
67.5°	12922.0	5972.4	420.1	336.6	334.3	336.6	345.1	319.7	266.4	236.2	231.2
70°	11903.5	4750.6	336.6	279.7	290.6	284.5	308.8	291.8	239.7	209.5	205.8
72.5°	9713.0	3422.2	256.8	231.2	222.8	232.5	278.5	262.8	199.8	165.9	162.3
75°	5675.7	1826.1	191.4	182.9	161.0	193.7	247.0	224.1	152.6	122.3	118.7
77.5°	1847.9	636.9	140.4	134.4	119.9	156.2	210.7	188.9	124.7	96.9	93.3
80°	495.3	192.5	95.6	88.4	77.5	116.2	167.1	150.2	89.6	62.9	61.8
82.5°	198.6	81.2	55.7	49.6	42.3	79.9	132.0	121.1	66.6	40.0	40.0
85°	64.2	26.6	20.6	15.8	19.4	49.6	78.7	82.3	47.3	20.6	15.8
87.5°	8.5	3.6	3.6	4.8	3.6	8.5	24.2	23.0	13.3	2.5	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)