

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: P969778

Luminaire Tested: **NAV-SB6A-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-727-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19764.1 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

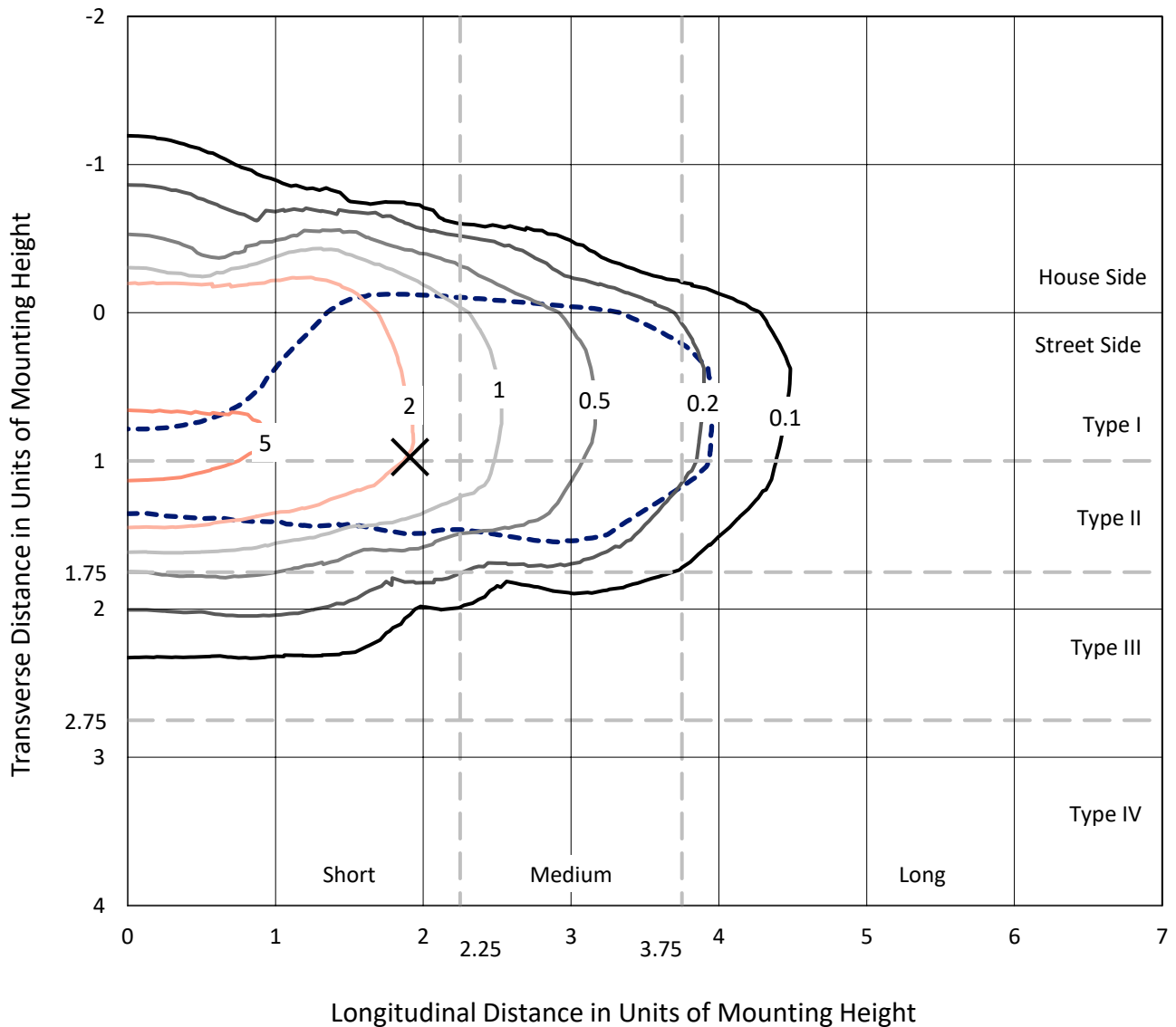
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

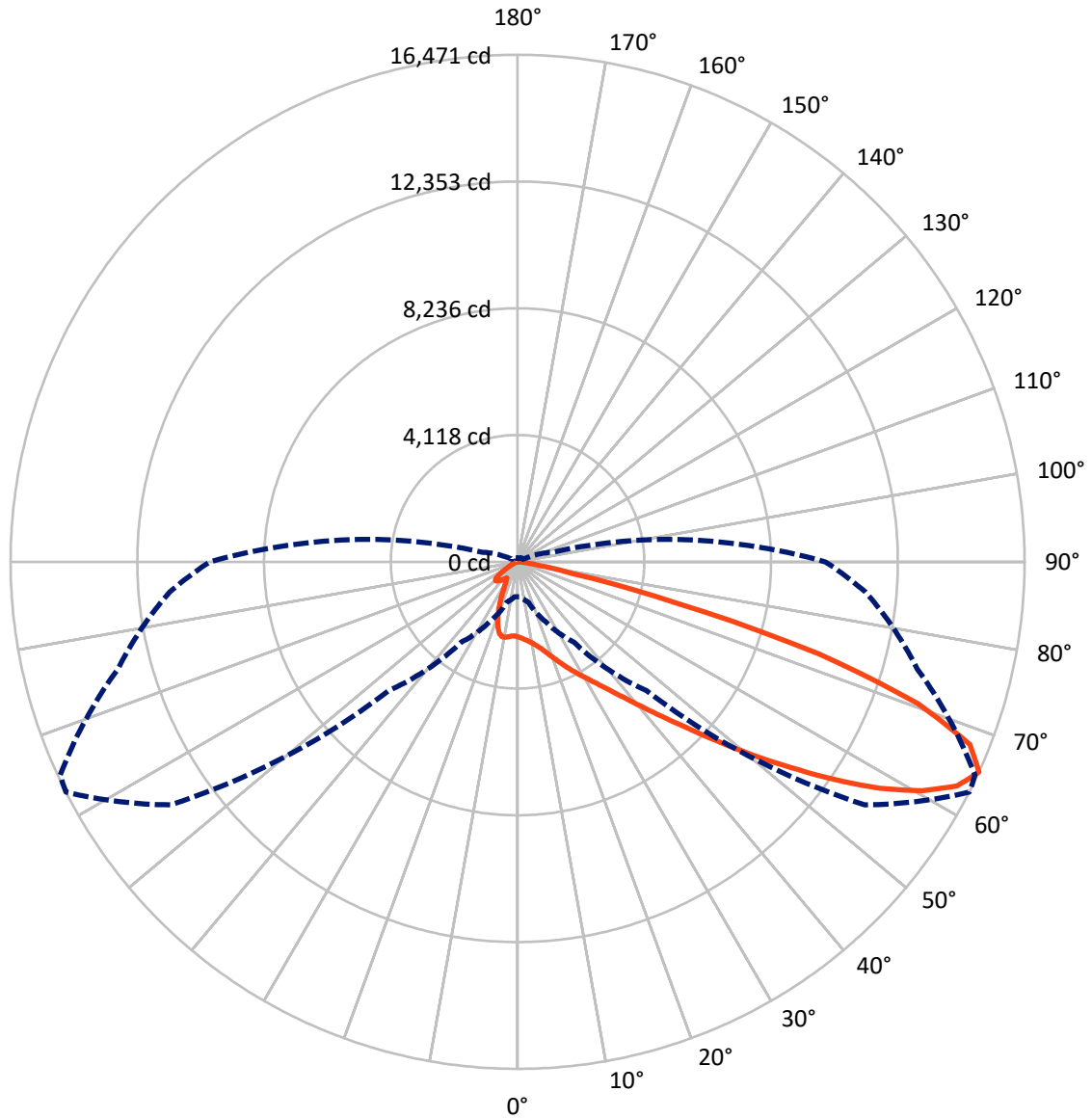
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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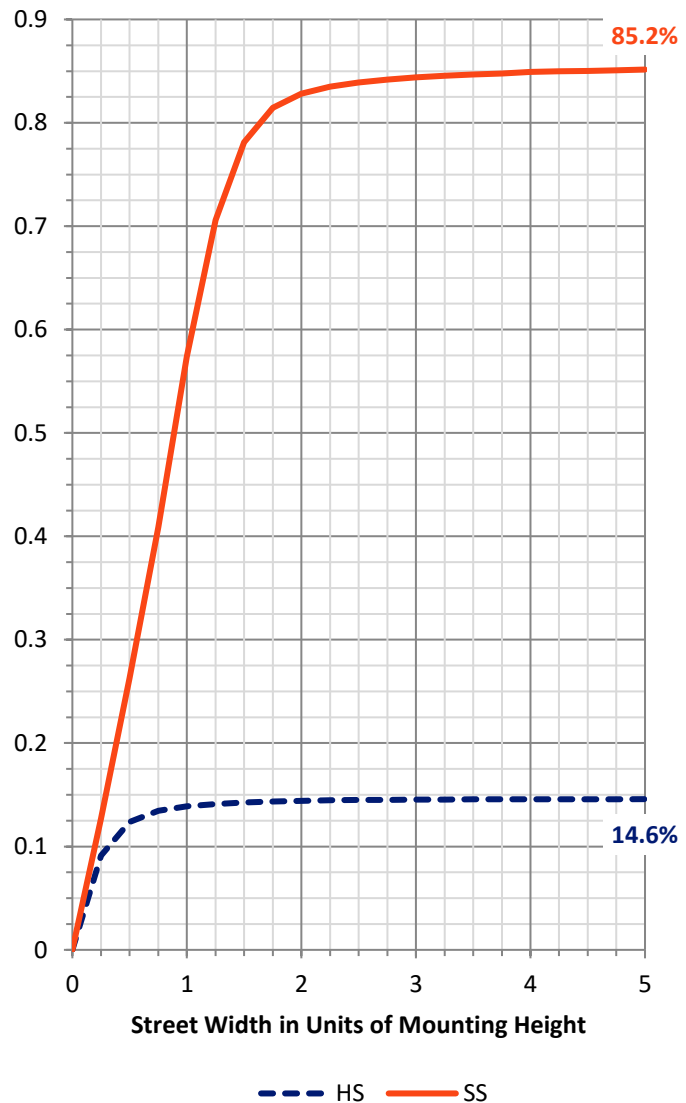
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2905.2	0.0	2905.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	16858.9	0.0	16858.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	19764.1	0.0	19764.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.8	1.2
10°-20°	637.7	3.2
20°-30°	1110.4	5.6
30°-40°	2001.3	10.1
40°-50°	3969.2	20.1
50°-60°	5406.8	27.4
60°-70°	4315.6	21.8
70°-80°	1952.9	9.9
80°-90°	140.4	0.7
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°	19764.1	100.0
0°-180°	19764.1	100.0

Coefficient of Utilization



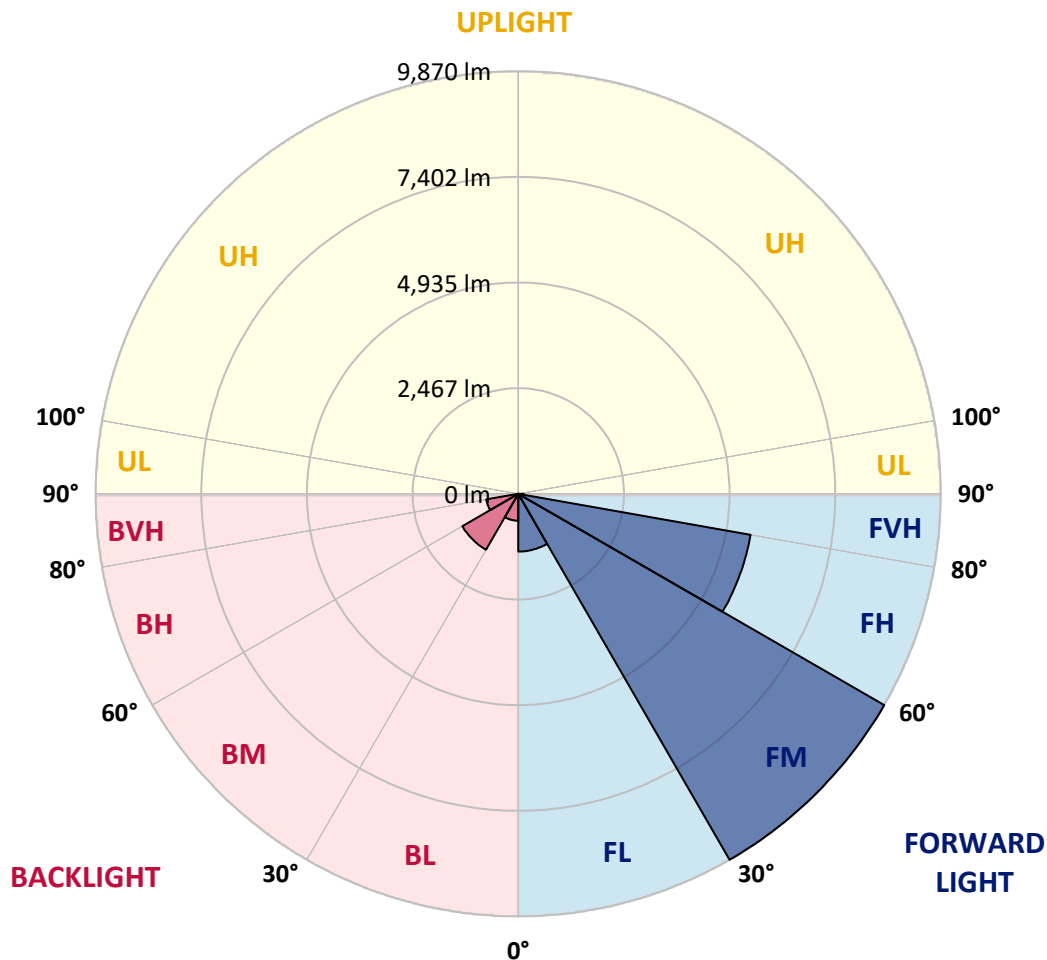
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1349.1	6.8			
FM (30°-60°)	9869.7	49.9			
FH (60°-80°)	5510.1	27.9			G3/7500
FVH (80°-90°)	130.0	0.7			G2/225
BL (0°-30°)	628.7	3.2	B2/1000		
BM (30°-60°)	1507.6	7.6	B2/2500		
BH (60°-80°)	758.4	3.8	B2/1000		G2/1000
BVH (80°-90°)	10.4	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3
2.5°	2496.4	2489.5	2499.1	2495.1	2492.3	2486.9	2484.1	2481.4	2476.0	2471.9	2455.6
5°	2503.2	2499.1	2508.6	2516.8	2524.9	2533.1	2537.2	2542.6	2537.2	2526.3	2509.9
7.5°	2446.1	2443.3	2463.7	2488.2	2524.9	2556.1	2590.2	2609.2	2610.6	2606.5	2588.8
10°	2442.0	2435.2	2455.6	2485.5	2533.1	2588.8	2648.6	2689.4	2694.8	2712.6	2693.5
12.5°	2505.9	2499.1	2527.6	2560.2	2609.2	2667.7	2741.1	2798.2	2806.3	2830.8	2817.2
15°	2613.3	2603.8	2636.4	2678.5	2741.1	2807.7	2885.3	2936.9	2943.7	2973.6	2949.1
17.5°	2738.4	2728.9	2767.0	2811.8	2879.8	2970.9	3060.6	3117.7	3125.9	3144.9	3100.0
20°	2898.8	2886.6	2916.5	2957.3	3029.4	3138.1	3245.6	3327.2	3325.7	3325.7	3252.3
22.5°	3085.1	3066.1	3091.9	3124.5	3192.6	3324.4	3467.2	3563.7	3563.7	3525.6	3404.6
25°	3285.0	3266.0	3294.5	3324.4	3384.2	3533.8	3701.1	3820.7	3826.1	3760.8	3567.8
27.5°	3535.1	3510.7	3532.5	3567.8	3603.2	3755.4	3953.9	4092.6	4095.4	3994.7	3722.8
30°	4016.5	3947.2	3879.1	3841.1	3857.4	4008.4	4220.4	4374.1	4387.7	4249.0	3891.4
32.5°	4897.6	4883.9	4644.7	4332.0	4168.8	4280.3	4518.2	4703.1	4711.3	4533.2	4110.2
35°	6266.7	6250.4	5865.7	5270.1	4738.5	4644.7	4879.9	5098.8	5093.3	4892.1	4394.5
37.5°	7901.1	7886.1	7379.0	6582.1	5721.5	5195.3	5346.2	5576.0	5610.0	5346.2	4761.5
40°	9297.5	9241.7	8920.8	8152.6	7026.8	6109.0	6009.8	6162.1	6197.4	5884.6	5227.9
42.5°	10355.3	10307.7	10144.5	9664.5	8606.7	7460.6	6791.5	6850.1	6889.4	6514.2	5763.7
45°	10903.2	10892.4	10957.7	10912.8	10216.6	9119.3	7909.2	7665.9	7680.8	7211.7	6371.4
47.5°	10980.7	10975.3	11273.1	11694.5	11600.7	10990.3	9343.7	8682.9	8629.9	7999.0	7032.2
50°	10523.9	10513.0	11084.0	11874.0	12525.3	12562.0	10972.6	9829.1	9712.2	8813.5	7721.6
52.5°	9065.0	9062.2	10000.4	11315.2	12850.3	13938.1	12582.4	11088.1	10892.4	9675.5	8450.4
55°	6975.1	7025.5	8101.0	9655.1	12257.5	14600.2	14027.7	12485.9	12185.4	10542.9	9122.1
57.5°	4941.0	5014.5	6077.7	7461.9	10419.2	14208.7	15005.4	13886.4	13562.8	11407.6	9803.3
60°	2654.1	2719.3	3784.0	5436.0	7751.5	12748.3	15520.7	15101.9	14796.0	12229.0	10417.8
62.5°	1581.3	1603.1	2043.5	3509.3	5242.9	9739.3	15301.8	16027.8	15776.3	12918.3	10952.2
65°	1135.3	1139.4	1361.0	2142.9	3183.0	5917.3	13766.7	16471.1	16393.6	13437.6	11347.9
67.5°	955.8	953.1	1045.6	1423.6	2168.7	2964.1	10551.0	15844.2	16173.4	13766.7	11572.1
70°	819.9	824.0	932.7	1042.8	1630.3	1677.8	5245.6	13795.3	14496.9	13853.7	11558.6
72.5°	610.5	624.1	724.7	950.4	1230.5	1154.4	1811.1	10228.9	11497.4	13052.9	10959.0
75°	431.0	437.8	509.8	799.5	917.8	840.3	924.6	5287.8	6913.9	10007.2	8969.8
77.5°	331.8	344.0	386.1	558.8	904.2	590.1	565.6	1830.1	2811.8	6045.1	6149.8
80°	179.5	201.2	278.7	403.8	635.0	417.4	280.1	728.8	953.1	2826.7	2371.2
82.5°	92.5	103.3	194.4	291.0	361.7	364.4	138.7	303.2	393.0	872.9	324.9
85°	36.7	44.9	130.5	160.4	186.2	179.5	62.5	122.4	141.4	242.0	99.2
87.5°	8.2	13.6	47.6	36.7	35.4	38.0	15.0	28.6	27.2	28.6	17.6
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°	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3	2439.3
2.5°	2454.3	2448.7	2433.9	2417.5	2398.5	2387.6	2380.8	2379.4	2369.9	2363.1	2369.9
5°	2495.1	2489.5	2461.0	2427.0	2390.3	2361.8	2334.5	2310.0	2274.8	2267.9	2265.2
7.5°	2576.5	2561.6	2515.4	2469.1	2399.8	2316.9	2216.3	2100.7	1997.3	1966.1	1951.1
10°	2677.2	2656.8	2598.4	2516.8	2363.1	2137.4	1894.0	1668.3	1488.8	1438.6	1419.5
12.5°	2791.4	2773.8	2696.3	2545.3	2209.5	1800.2	1427.6	1147.6	973.5	930.0	917.8
15°	2927.4	2901.6	2794.1	2501.8	1934.8	1367.9	980.3	814.5	751.9	743.7	735.5
17.5°	3071.5	3029.4	2881.2	2345.4	1565.0	972.2	757.4	709.7	682.5	674.4	670.3
20°	3203.4	3149.0	2932.8	2108.8	1169.3	757.4	678.4	647.2	622.7	613.3	607.8
22.5°	3335.2	3257.8	2932.8	1786.6	877.0	671.7	622.7	594.2	565.6	553.4	546.6
25°	3472.6	3369.3	2881.2	1427.6	705.7	615.9	569.7	538.4	513.9	499.0	493.5
27.5°	3605.8	3463.1	2762.9	1087.7	628.1	567.0	520.8	490.9	467.7	456.8	456.8
30°	3732.3	3555.5	2596.9	825.3	577.9	519.4	475.9	450.1	426.9	416.0	417.4
32.5°	3903.6	3672.5	2420.2	677.1	534.3	474.6	435.1	410.6	390.2	382.0	382.0
35°	4141.6	3845.2	2267.9	664.9	497.6	437.8	398.4	375.3	354.9	348.1	348.1
37.5°	4478.7	4123.9	2187.8	746.5	467.7	405.2	368.5	344.0	324.9	319.5	318.2
40°	4894.8	4501.9	2231.2	828.0	447.3	376.6	341.3	316.8	300.5	293.7	292.3
42.5°	5388.4	4968.3	2471.9	890.6	433.8	352.2	315.5	288.2	277.4	274.7	274.7
45°	5955.4	5480.9	2840.4	957.2	411.9	329.0	289.6	269.2	261.1	259.7	258.3
47.5°	6599.9	6043.7	3267.3	1040.2	390.2	307.3	269.2	255.6	248.9	246.1	246.1
50°	7239.0	6610.7	3706.5	1086.4	372.6	286.9	252.9	242.0	236.6	235.2	235.2
52.5°	7907.9	7194.1	4061.4	1042.8	357.6	270.6	239.3	231.1	225.7	224.4	224.4
55°	8545.5	7665.9	4122.5	885.2	327.7	254.3	224.4	220.3	213.5	213.5	212.1
57.5°	9094.8	7902.4	3690.2	650.0	297.8	229.8	209.4	205.3	199.9	198.5	197.1
60°	9599.3	7834.5	2848.5	437.8	265.2	205.3	190.3	187.7	182.2	175.4	174.0
62.5°	9883.5	7535.3	1948.4	285.6	232.5	179.5	168.6	167.3	155.0	141.4	138.7
65°	9990.9	6920.7	1215.5	208.1	194.4	153.6	145.4	142.8	125.0	110.1	108.8
67.5°	9897.1	5909.1	613.3	164.5	153.6	127.8	119.6	119.6	107.4	93.8	92.5
70°	9521.8	4429.8	258.3	131.9	118.3	97.9	97.9	103.3	91.1	76.2	74.8
72.5°	8707.4	2980.4	137.4	100.7	88.4	69.4	80.3	84.3	72.1	57.1	57.1
75°	6922.1	1817.8	95.2	74.8	55.8	49.0	61.2	63.9	49.0	38.0	36.7
77.5°	4734.4	1044.3	63.9	47.6	35.4	28.6	42.1	39.5	25.8	17.6	19.1
80°	2078.9	435.1	36.7	21.7	13.6	10.9	15.0	10.9	8.2	5.4	5.4
82.5°	243.3	102.0	13.6	8.2	5.4	2.8	1.3	0.0	0.0	0.0	0.0
85°	50.3	12.2	6.8	2.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	2.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)