

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: P970029

Luminaire Tested: **NAV-SB6A-835-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-835-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20282.7 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

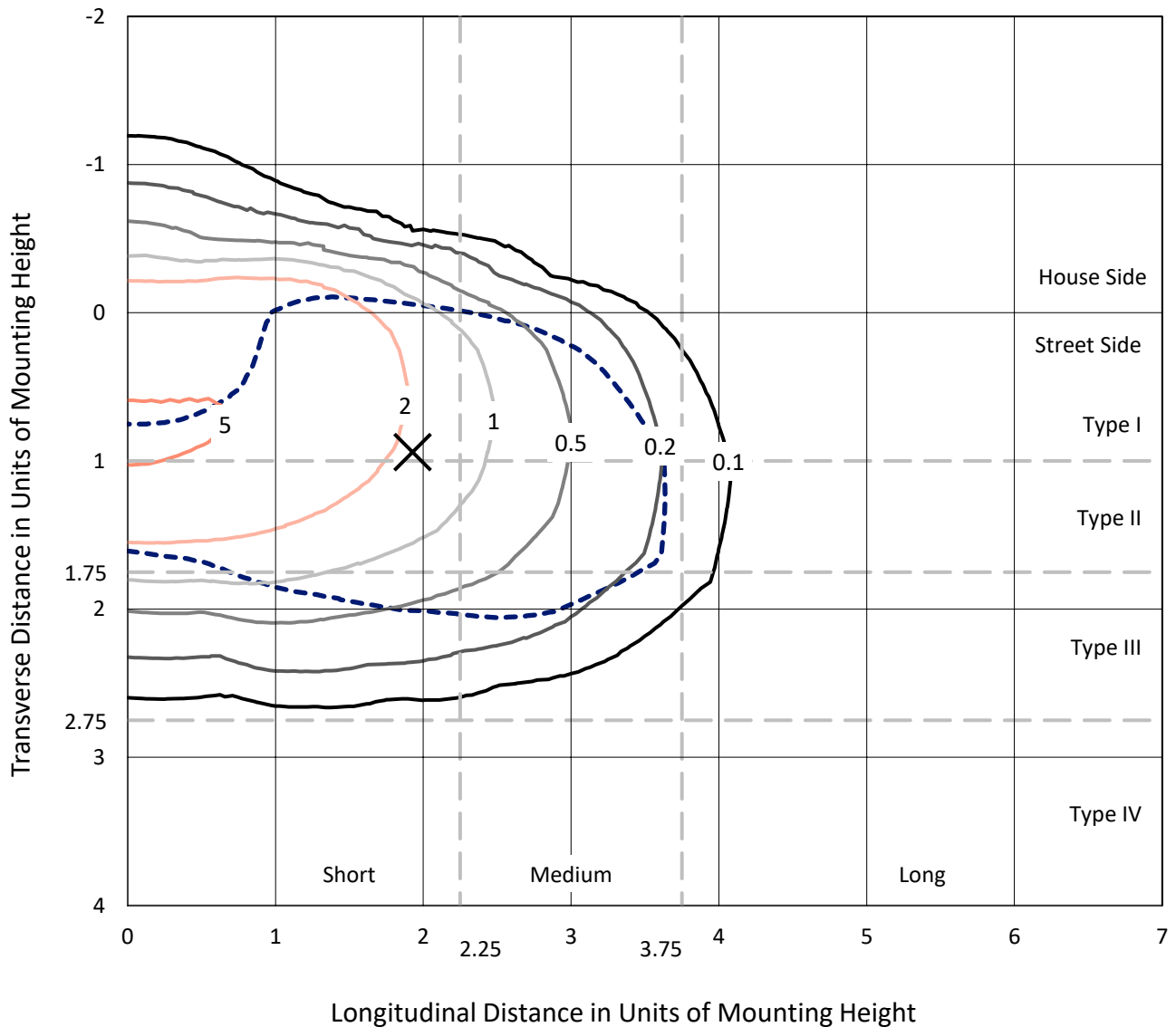
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

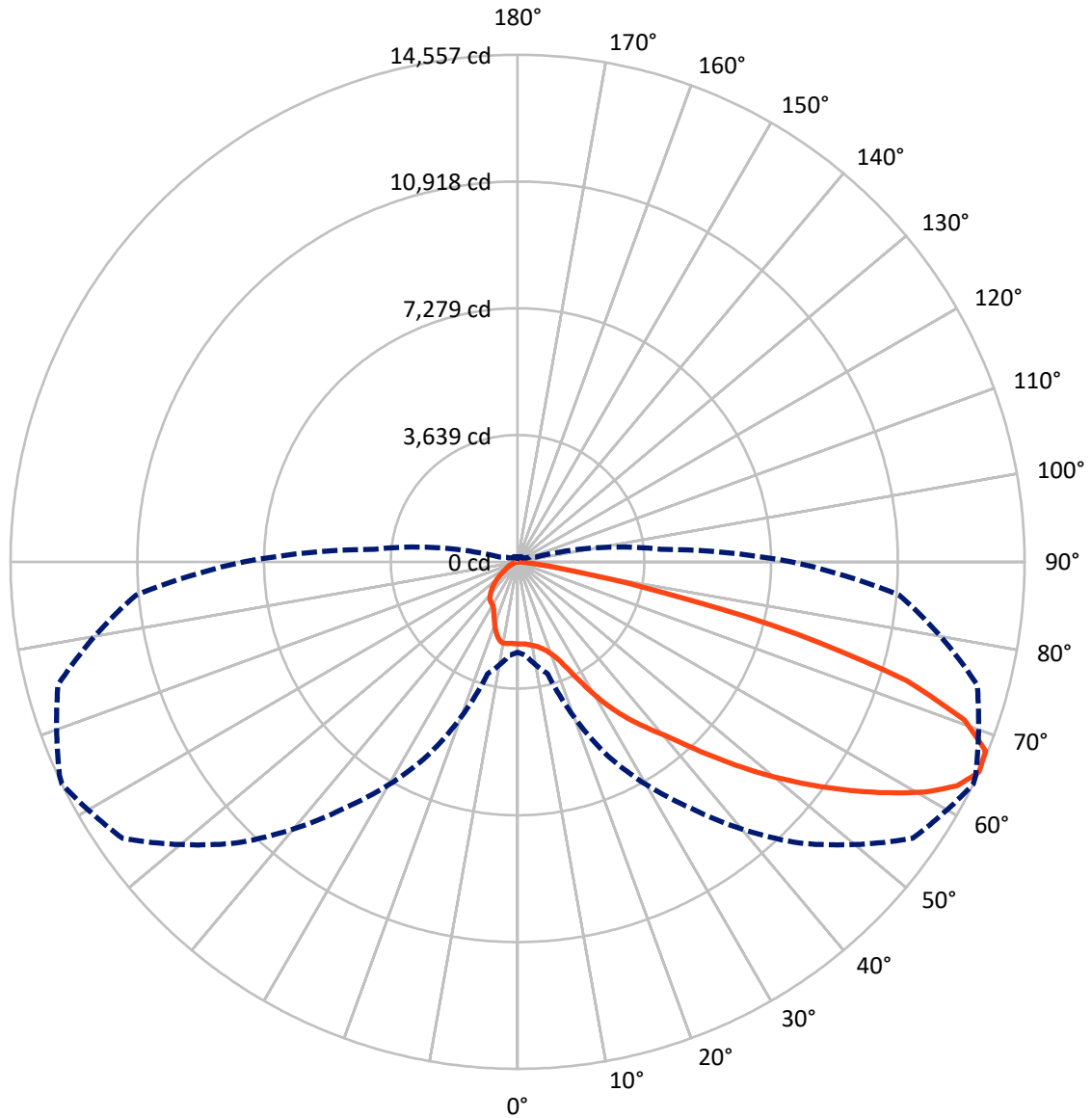
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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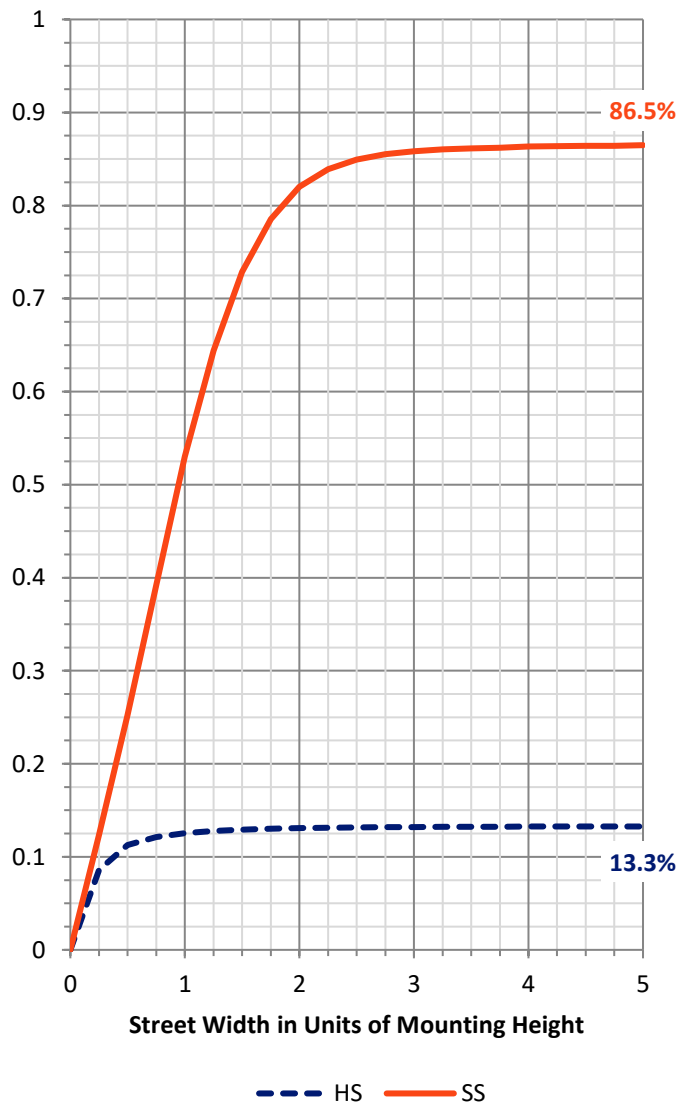
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2712.4	0.0	2712.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	17570.3	0.0	17570.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	20282.7	0.0	20282.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.7	1.1
10°-20°	590.3	2.9
20°-30°	1118.6	5.5
30°-40°	2263.6	11.2
40°-50°	3856.0	19.0
50°-60°	5243.9	25.9
60°-70°	4924.2	24.3
70°-80°	1972.9	9.7
80°-90°	95.6	0.5
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°	20282.7	100.0
0°-180°	20282.7	100.0

Coefficient of Utilization



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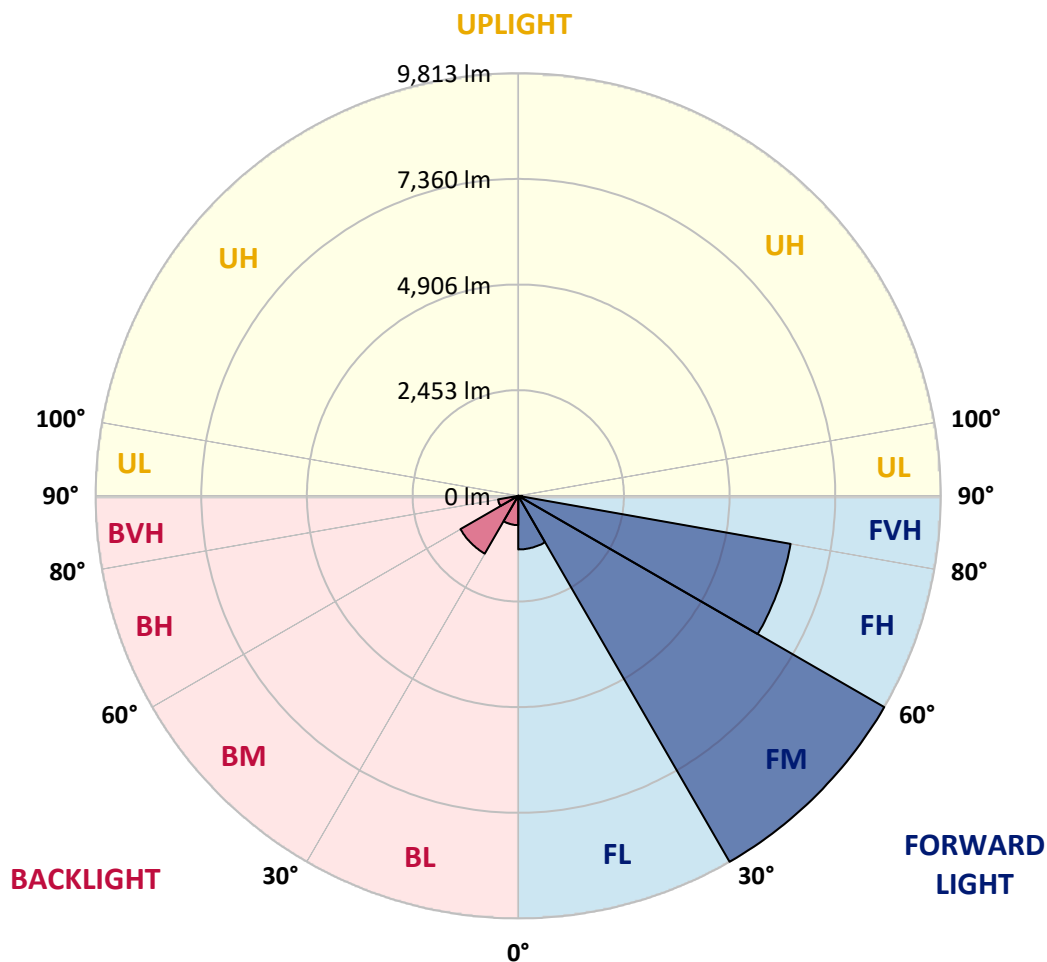
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.6	6.1			
FM (30°-60°)	9812.8	48.4			
FH (60°-80°)	6421.0	31.7			G3/7500
FVH (80°-90°)	90.9	0.4			G1/100
BL (0°-30°)	681.0	3.4	B2/1000		
BM (30°-60°)	1550.7	7.6	B2/2500		
BH (60°-80°)	476.1	2.3	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0
2.5°	2350.9	2367.2	2363.1	2359.0	2357.7	2360.5	2361.8	2360.5	2360.5	2360.5	2361.8
5°	2306.0	2319.7	2319.7	2329.2	2342.7	2359.0	2371.3	2374.0	2376.8	2380.9	2379.4
7.5°	2220.4	2231.3	2239.4	2270.7	2304.7	2348.2	2385.0	2403.9	2406.7	2421.7	2427.1
10°	2161.9	2175.6	2189.1	2221.8	2270.7	2336.0	2398.5	2444.7	2451.6	2486.9	2503.3
12.5°	2159.2	2172.8	2190.5	2225.8	2283.0	2352.3	2428.4	2495.1	2507.3	2559.0	2592.9
15°	2187.8	2204.1	2220.4	2263.9	2325.1	2409.4	2491.0	2573.9	2586.2	2659.6	2696.3
17.5°	2246.2	2268.0	2280.2	2323.8	2389.0	2482.9	2590.3	2685.4	2696.3	2782.0	2828.2
20°	2361.8	2387.6	2391.7	2427.1	2491.0	2591.6	2719.4	2837.7	2851.3	2949.2	3000.9
22.5°	2601.1	2637.8	2605.2	2622.9	2680.0	2780.6	2919.3	3068.8	3087.9	3199.4	3245.7
25°	3022.6	3074.3	2990.0	2960.1	2984.6	3089.2	3263.3	3452.3	3474.0	3563.8	3586.9
27.5°	3850.7	3784.1	3656.3	3531.1	3457.7	3517.6	3713.4	3947.3	3974.4	4061.5	4034.2
30°	4760.3	4701.9	4529.2	4251.8	4077.8	4068.2	4249.0	4510.1	4541.4	4624.4	4541.4
32.5°	5671.3	5615.6	5428.0	5086.7	4784.8	4635.3	4760.3	5050.0	5066.3	5119.3	4996.9
35°	6567.4	6510.3	6322.6	5973.2	5602.0	5262.0	5237.5	5563.9	5569.3	5625.1	5442.9
37.5°	7468.9	7421.3	7221.4	6878.8	6513.0	6043.9	5816.8	6050.7	6057.4	6111.9	5922.9
40°	8112.0	8132.4	7995.1	7729.9	7415.9	6903.3	6466.7	6568.7	6527.9	6619.0	6506.2
42.5°	8664.0	8704.8	8585.2	8451.9	8269.7	7818.3	7271.7	7254.0	7188.7	7237.7	7120.8
45°	9141.3	9175.3	9067.9	9036.6	9032.5	8715.7	8151.4	8045.3	7954.3	7944.8	7804.7
47.5°	9316.7	9381.9	9428.2	9532.9	9736.9	9603.6	9061.1	8896.6	8794.6	8719.8	8498.2
50°	9383.4	9452.7	9610.4	9914.9	10397.7	10454.8	9966.7	9781.7	9656.6	9520.6	9194.4
52.5°	9293.6	9417.3	9629.5	10142.1	10842.2	11137.3	10835.5	10673.7	10531.0	10309.2	9825.2
55°	8764.7	8888.4	9322.2	10139.3	11064.0	11615.9	11656.7	11584.7	11424.2	11074.8	10335.1
57.5°	7649.7	7833.3	8519.9	9794.0	11059.9	12028.0	12461.7	12513.4	12333.9	11833.5	10736.3
60°	6105.1	6353.9	7191.5	9028.4	10718.5	12250.9	13167.4	13425.8	13235.4	12581.4	11061.2
62.5°	4260.0	4548.2	5341.0	7829.2	9938.1	12090.5	13682.7	14160.0	14015.8	13250.3	11186.3
65°	2598.4	2690.8	3329.9	6160.9	8611.0	11418.8	13841.8	14557.0	14509.4	13659.6	11001.3
67.5°	1730.9	1808.4	1992.0	4224.6	6684.3	10076.8	13461.1	14487.7	14501.3	13592.9	10324.2
70°	1042.9	1109.6	1229.2	2457.0	4332.1	7976.0	12282.3	13603.8	13682.7	12702.4	9040.7
72.5°	429.7	474.6	583.3	1113.6	2243.5	5062.2	9780.3	11679.9	11863.5	10680.5	6938.5
75°	243.4	266.5	342.7	558.8	973.5	2359.0	5924.2	8291.5	8562.0	7361.4	4174.3
77.5°	161.8	172.7	221.6	361.7	548.0	804.9	2531.8	4319.8	4836.5	4020.7	1807.1
80°	108.8	118.3	152.3	242.0	356.3	345.3	806.3	1600.3	1968.8	1381.5	440.5
82.5°	73.4	74.8	108.8	159.1	225.7	167.3	237.9	497.6	625.5	399.7	167.3
85°	42.1	40.8	80.3	92.5	100.7	69.4	72.1	149.5	195.8	168.6	95.2
87.5°	5.4	8.2	31.3	24.5	13.6	15.0	15.0	25.8	38.0	40.8	20.4
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°	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0	2359.0
2.5°	2361.8	2360.5	2356.4	2352.3	2342.7	2337.3	2340.1	2337.3	2336.0	2337.3	2342.7
5°	2379.4	2375.4	2364.6	2350.9	2331.9	2308.8	2293.8	2272.1	2251.7	2239.4	2242.2
7.5°	2427.1	2423.0	2408.0	2370.0	2308.8	2212.3	2123.9	2046.3	1987.9	1953.9	1955.3
10°	2503.3	2496.4	2473.3	2389.0	2228.6	2017.8	1842.4	1696.9	1601.8	1556.9	1552.8
12.5°	2592.9	2584.8	2544.0	2371.3	2076.2	1747.2	1505.2	1343.4	1255.0	1215.5	1211.4
15°	2699.0	2688.2	2607.9	2287.0	1854.6	1448.1	1226.4	1105.5	1048.4	1013.0	1014.3
17.5°	2830.9	2811.9	2655.5	2160.6	1614.0	1219.6	1055.1	964.0	913.7	879.8	877.0
20°	3002.2	2971.0	2693.6	2009.6	1392.4	1075.5	939.5	863.5	825.3	795.4	790.0
22.5°	3241.6	3196.7	2739.8	1846.4	1235.9	976.3	853.9	798.2	766.9	732.9	727.4
25°	3538.0	3484.9	2796.9	1695.6	1128.5	890.6	791.3	745.1	708.4	669.0	664.9
27.5°	3952.7	3857.5	2864.9	1571.8	1036.1	817.2	734.2	682.5	640.4	607.8	601.0
30°	4415.0	4258.6	2924.7	1497.0	951.8	749.2	659.5	607.8	568.4	545.2	541.2
32.5°	4852.8	4640.7	2964.2	1464.4	875.7	671.7	577.9	522.1	492.2	485.4	489.5
35°	5266.1	4986.0	2960.1	1433.2	807.7	594.2	497.6	440.5	417.4	421.5	421.5
37.5°	5742.0	5354.5	2931.5	1384.2	751.9	523.5	428.3	378.0	357.6	359.0	364.4
40°	6295.4	5780.1	2913.9	1291.7	690.7	458.2	371.2	330.4	315.5	310.1	308.6
42.5°	6885.5	6192.1	2916.5	1187.1	614.6	399.7	331.8	297.8	284.1	280.1	278.7
45°	7478.4	6585.0	2920.6	1078.2	534.3	354.9	303.2	274.7	266.5	261.1	261.1
47.5°	8035.9	6919.6	2844.5	961.3	455.5	320.9	280.1	261.1	254.3	247.4	247.4
50°	8555.3	7142.5	2660.9	825.3	393.0	293.7	262.4	248.9	242.0	235.2	235.2
52.5°	8959.1	7177.9	2357.7	685.3	349.4	273.3	251.5	239.3	231.1	224.4	223.0
55°	9138.6	6956.3	1926.7	554.7	315.5	255.6	240.7	228.5	218.9	212.1	210.7
57.5°	9092.4	6489.9	1502.4	446.0	282.8	237.9	227.0	218.9	208.1	197.1	195.8
60°	8865.3	5865.8	1132.6	371.2	252.9	218.9	212.1	205.3	190.3	174.0	171.3
62.5°	8472.3	5081.2	807.7	307.3	220.3	197.1	194.4	189.0	167.3	137.4	134.6
65°	7871.3	4128.1	543.9	255.6	189.0	172.7	174.0	164.5	136.0	102.0	99.2
67.5°	6993.0	3018.5	348.1	209.4	157.7	144.1	145.4	140.0	115.6	87.0	82.9
70°	5874.0	1998.7	227.0	159.1	126.5	111.5	119.6	121.1	97.9	70.7	68.0
72.5°	4306.2	1180.2	159.1	118.3	92.5	77.5	97.9	100.7	78.8	53.0	50.3
75°	2454.3	560.2	119.6	85.7	57.1	54.4	76.2	76.2	54.4	35.4	32.6
77.5°	1030.6	233.9	84.3	55.8	32.6	31.3	51.7	47.6	27.2	16.3	16.3
80°	297.8	104.7	44.9	27.2	13.6	12.2	20.4	15.0	6.8	2.8	2.8
82.5°	117.0	46.2	17.6	10.9	5.4	5.4	2.8	0.0	0.0	0.0	0.0
85°	69.4	19.1	8.2	4.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.6	4.1	2.8	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)