

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: P966588

Luminaire Tested: **NAV-SB4C-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966588
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-SB4C-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA 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: 19932.1 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

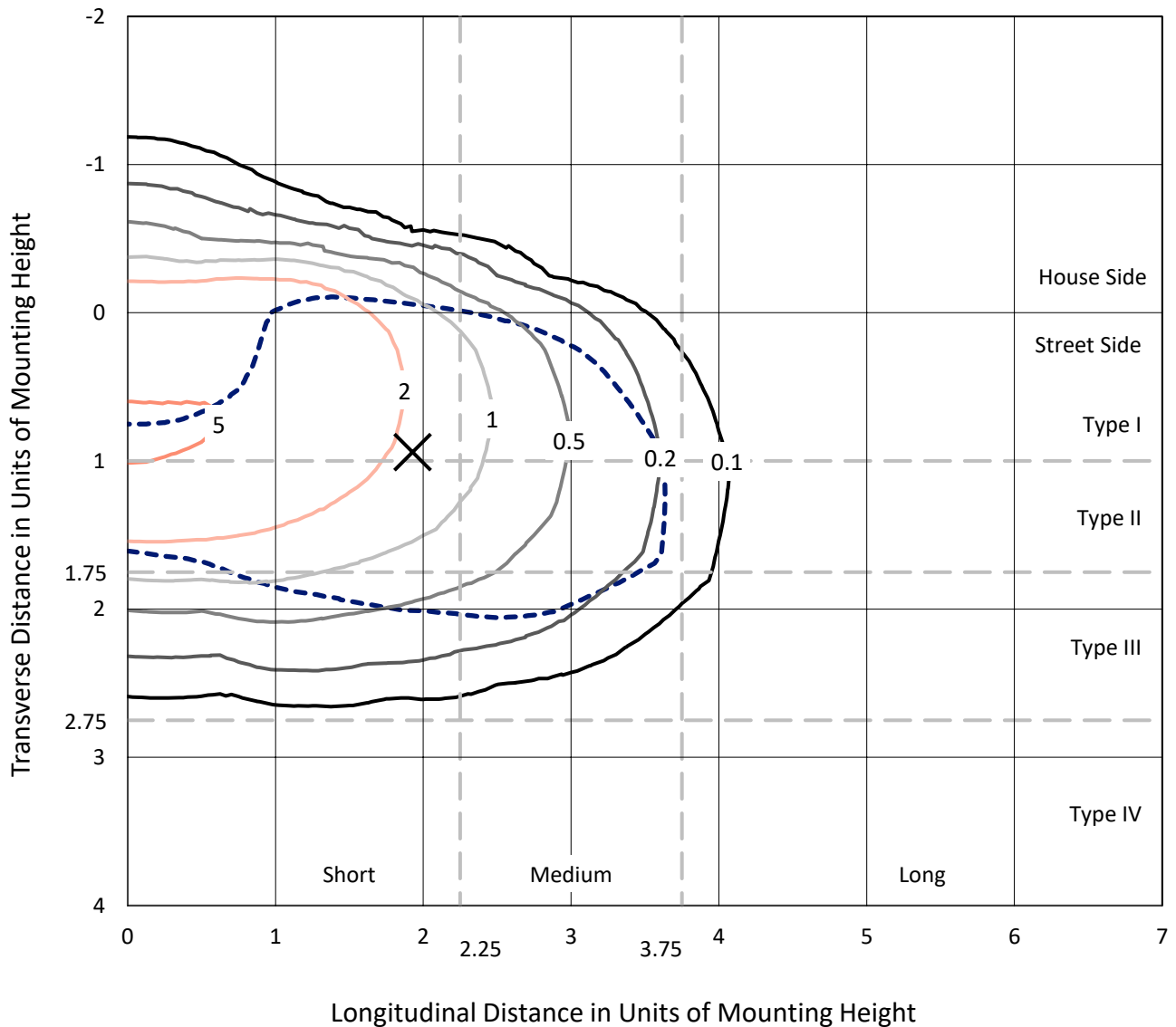
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

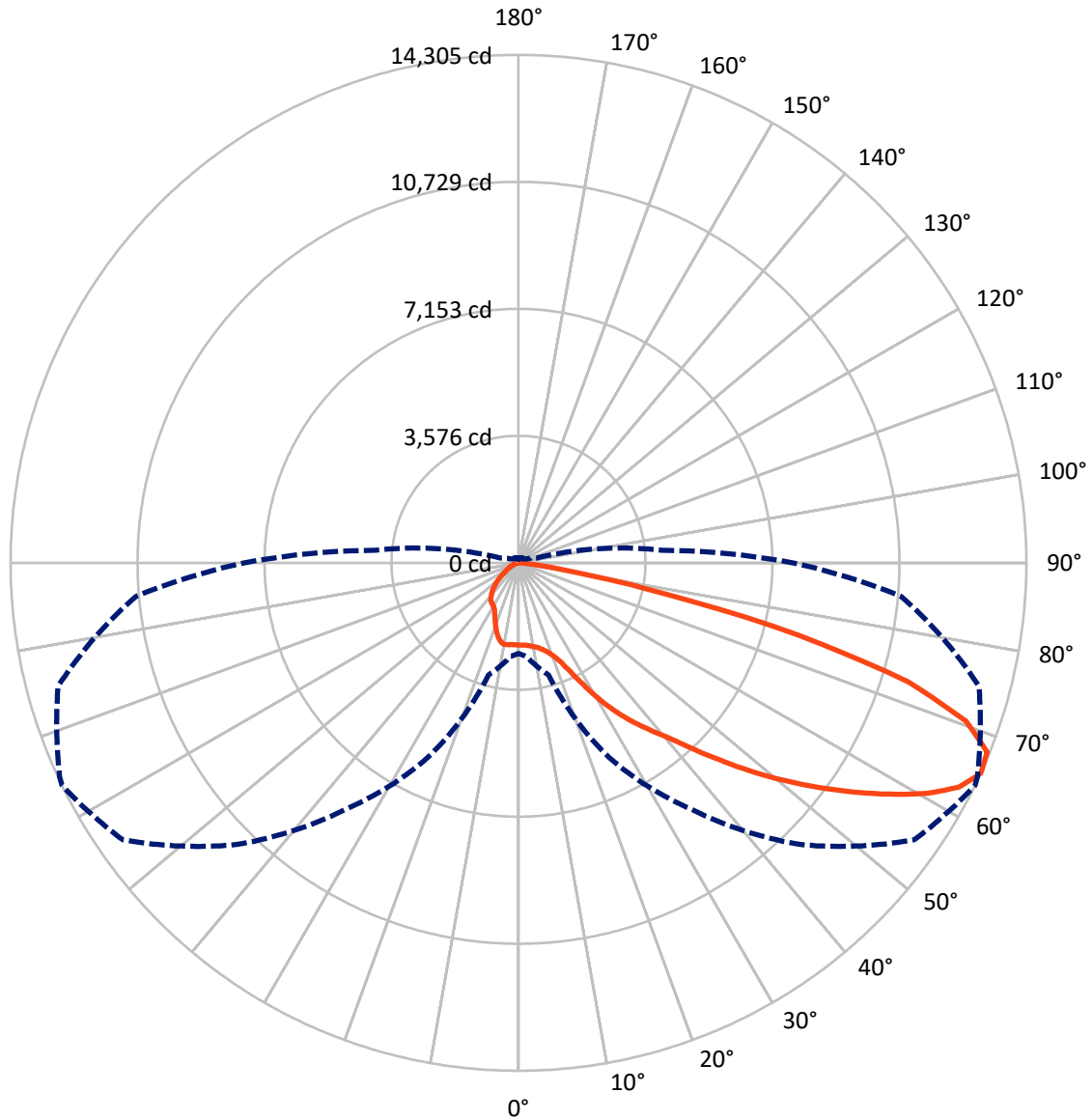
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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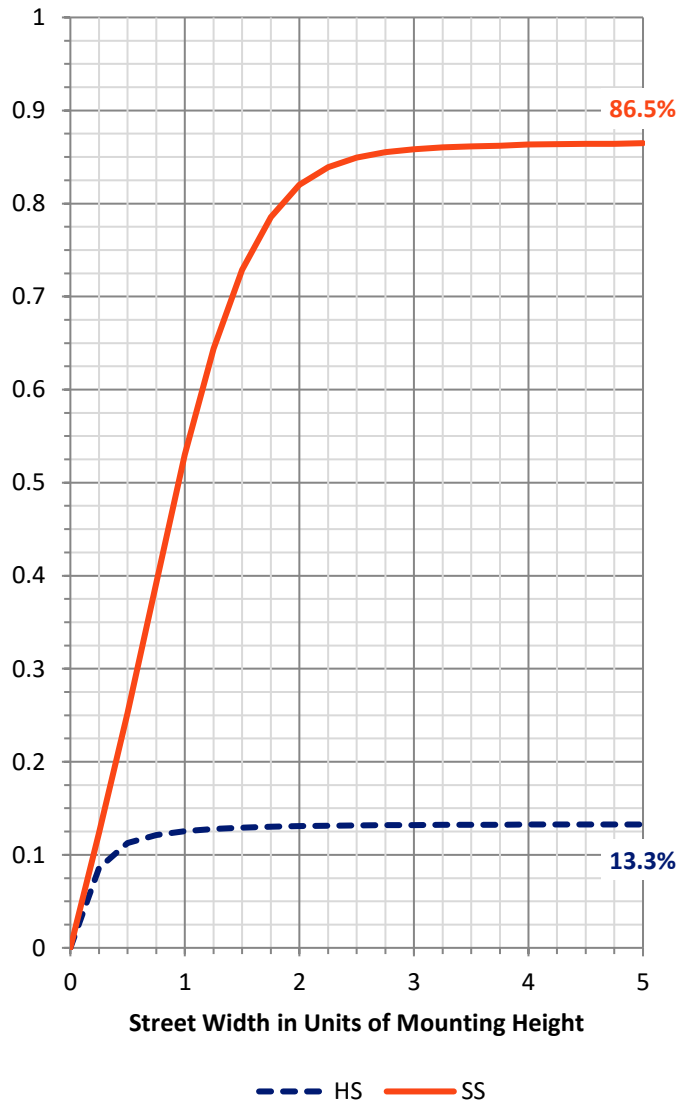
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2665.5	0.0	2665.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	17266.6	0.0	17266.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	19932.1	0.0	19932.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	1.1
10°-20°	580.1	2.9
20°-30°	1099.3	5.5
30°-40°	2224.4	11.2
40°-50°	3789.4	19.0
50°-60°	5153.2	25.9
60°-70°	4839.1	24.3
70°-80°	1938.8	9.7
80°-90°	93.9	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°	19932.1	100.0
0°-180°	19932.1	100.0

Coefficient of Utilization



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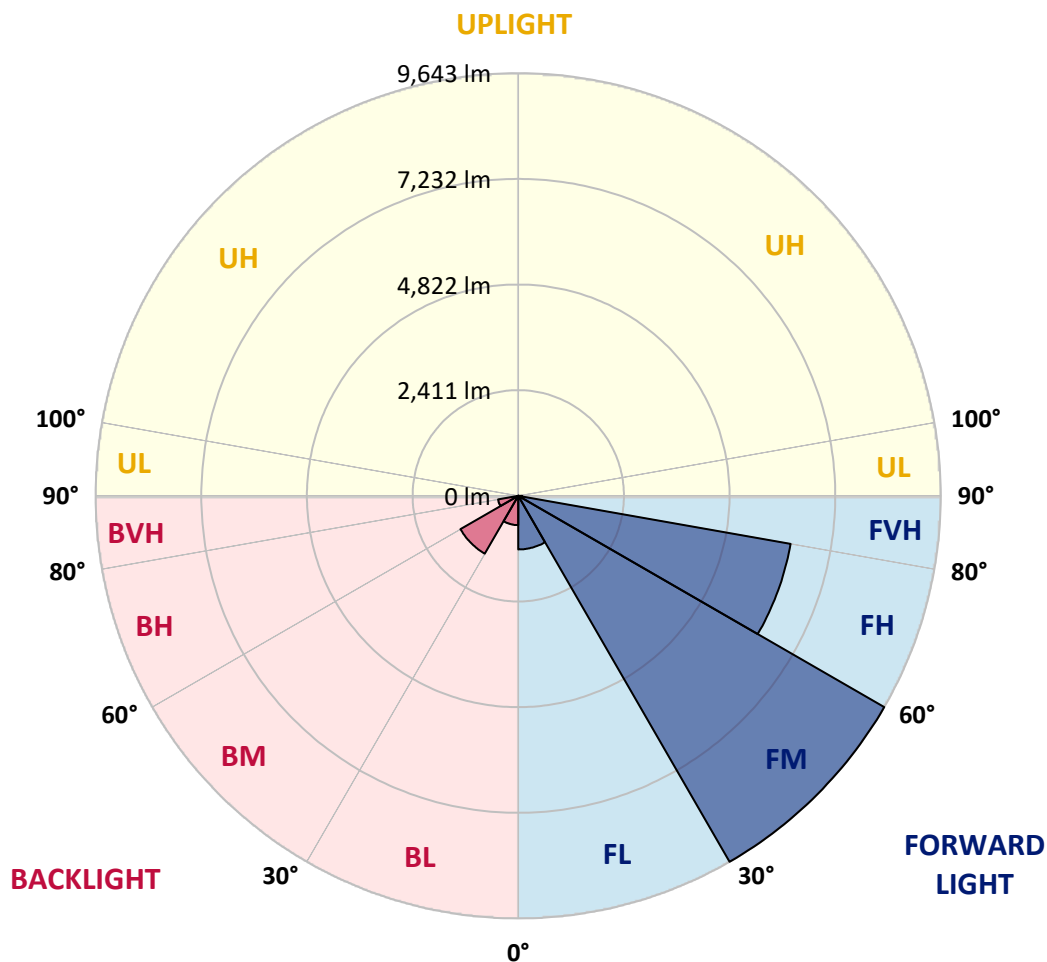
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.1	6.1			
FM (30°-60°)	9643.1	48.4			
FH (60°-80°)	6310.1	31.7			G3/7500
FVH (80°-90°)	89.3	0.4			G1/100
BL (0°-30°)	669.2	3.4	B2/1000		
BM (30°-60°)	1523.9	7.6	B2/2500		
BH (60°-80°)	467.8	2.3	B1/500		G1/500
BVH (80°-90°)	4.6	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°	2318.3	2318.3	2318.3	2318.3	2318.3	2318.3	2318.3	2318.3	2318.3	2318.3	2318.3
2.5°	2310.4	2326.3	2322.3	2318.3	2317.0	2319.7	2321.0	2319.7	2319.7	2319.7	2321.0
5°	2266.2	2279.6	2279.6	2288.9	2302.3	2318.3	2330.3	2333.0	2335.7	2339.7	2338.3
7.5°	2182.0	2192.7	2200.8	2231.4	2264.8	2307.6	2343.7	2362.4	2365.1	2379.7	2385.2
10°	2124.5	2137.9	2151.3	2183.4	2231.4	2295.6	2357.1	2402.5	2409.2	2443.9	2460.0
12.5°	2121.9	2135.3	2152.6	2187.4	2243.5	2311.7	2386.5	2451.9	2464.0	2514.7	2548.1
15°	2149.9	2166.0	2182.0	2224.8	2284.9	2367.8	2447.9	2529.4	2541.5	2613.6	2649.7
17.5°	2207.4	2228.8	2240.9	2283.6	2347.8	2439.9	2545.5	2639.0	2649.7	2733.9	2779.3
20°	2321.0	2346.3	2350.4	2385.2	2447.9	2546.8	2672.4	2788.6	2802.0	2898.2	2949.0
22.5°	2556.1	2592.2	2560.1	2577.6	2633.6	2732.5	2868.9	3015.9	3034.5	3144.1	3189.5
25°	2970.3	3021.2	2938.3	2909.0	2932.9	3035.8	3206.9	3392.6	3414.0	3502.2	3524.9
27.5°	3784.1	3718.7	3593.0	3470.1	3398.0	3456.8	3649.2	3879.0	3905.8	3991.2	3964.5
30°	4678.1	4620.6	4450.9	4178.3	4007.2	3997.9	4175.6	4432.2	4463.0	4544.4	4463.0
32.5°	5573.3	5518.5	5334.1	4998.7	4702.1	4555.1	4678.1	4962.6	4978.7	5030.8	4910.6
35°	6453.9	6397.7	6213.3	5870.0	5505.2	5171.1	5147.0	5467.8	5473.1	5527.9	5348.9
37.5°	7339.8	7293.0	7096.6	6759.9	6400.4	5939.5	5716.3	5946.1	5952.8	6006.2	5820.5
40°	7971.8	7991.8	7856.9	7596.4	7287.6	6784.0	6355.0	6455.2	6415.2	6504.6	6393.7
42.5°	8514.3	8554.3	8436.8	8305.9	8126.8	7683.2	7146.0	7128.7	7064.5	7112.6	6997.7
45°	8983.3	9016.7	8911.1	8880.4	8876.4	8565.1	8010.6	7906.3	7816.8	7807.4	7669.8
47.5°	9155.7	9219.8	9265.3	9368.1	9568.6	9437.6	8904.5	8742.8	8642.6	8569.1	8351.3
50°	9221.1	9289.3	9444.2	9743.6	10217.9	10274.1	9794.4	9612.7	9489.8	9356.1	9035.4
52.5°	9133.0	9254.5	9463.0	9966.8	10654.9	10944.8	10648.2	10489.2	10348.9	10131.1	9655.4
55°	8613.2	8734.7	9161.0	9964.1	10872.7	11415.2	11455.3	11384.5	11226.8	10883.3	10156.5
57.5°	7517.5	7697.9	8372.7	9624.6	10868.7	11820.1	12246.3	12297.1	12120.7	11629.0	10550.6
60°	5999.5	6244.1	7067.2	8872.4	10533.3	12039.2	12939.8	13193.7	13006.6	12363.9	10870.0
62.5°	4186.3	4469.6	5248.6	7693.9	9766.3	11881.5	13446.3	13915.2	13773.6	13021.3	10992.9
65°	2553.5	2644.4	3272.4	6054.4	8462.2	11221.5	13602.6	14305.4	14258.7	13423.5	10811.2
67.5°	1701.0	1777.1	1957.5	4151.6	6568.8	9902.6	13228.4	14237.2	14250.7	13358.0	10145.8
70°	1024.9	1090.3	1208.0	2414.5	4257.1	7838.2	12070.0	13368.8	13446.3	12482.9	8884.4
72.5°	422.2	466.4	573.3	1094.4	2204.8	4974.7	9611.3	11478.1	11658.3	10495.9	6818.6
75°	239.1	261.9	336.7	549.2	956.7	2318.3	5821.8	8148.1	8414.1	7234.2	4102.2
77.5°	159.0	169.7	217.8	355.5	538.5	791.0	2488.0	4245.1	4752.9	3951.2	1775.8
80°	106.9	116.2	149.6	237.8	350.0	339.4	792.3	1572.8	1934.8	1357.6	433.0
82.5°	72.2	73.5	106.9	156.3	221.8	164.3	233.8	489.0	614.7	392.9	164.3
85°	41.4	40.1	78.8	90.8	98.9	68.2	70.8	147.0	192.4	165.6	93.6
87.5°	5.3	8.0	30.7	24.1	13.3	14.7	14.7	25.4	37.4	40.1	20.1
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°	2318.3	2318.3	2318.3	2318.3	2318.3	2318.3	2318.3	2318.3	2318.3	2318.3	2318.3
2.5°	2321.0	2319.7	2315.7	2311.7	2302.3	2296.9	2299.6	2296.9	2295.6	2296.9	2302.3
5°	2338.3	2334.3	2323.7	2310.4	2291.6	2268.8	2254.2	2232.8	2212.8	2200.8	2203.4
7.5°	2385.2	2381.1	2366.4	2329.0	2268.8	2174.0	2087.1	2010.9	1953.5	1920.1	1921.5
10°	2460.0	2453.2	2430.6	2347.8	2190.0	1983.0	1810.6	1667.6	1574.1	1529.9	1525.9
12.5°	2548.1	2540.2	2500.1	2330.3	2040.4	1717.0	1479.2	1320.2	1233.3	1194.5	1190.5
15°	2652.4	2641.6	2562.8	2247.5	1822.6	1423.0	1205.3	1086.3	1030.2	995.5	996.8
17.5°	2782.0	2763.3	2609.6	2123.2	1586.1	1198.5	1036.9	947.4	897.9	864.5	861.8
20°	2950.4	2919.6	2647.1	1974.9	1368.3	1057.0	923.3	848.5	811.1	781.7	776.3
22.5°	3185.5	3141.4	2692.5	1814.6	1214.6	959.4	839.2	784.3	753.6	720.2	714.8
25°	3476.8	3424.7	2748.5	1666.2	1109.0	875.2	777.7	732.3	696.2	657.4	653.4
27.5°	3884.3	3790.9	2815.4	1544.7	1018.2	803.1	721.6	670.8	629.3	597.3	590.6
30°	4338.6	4185.0	2874.2	1471.2	935.3	736.3	648.1	597.3	558.5	535.8	531.8
32.5°	4768.9	4560.4	2912.9	1439.1	860.5	660.1	567.8	513.1	483.7	477.0	481.0
35°	5175.1	4899.9	2909.0	1408.4	793.7	583.9	489.0	433.0	410.2	414.2	414.2
37.5°	5642.8	5261.9	2880.9	1360.3	738.9	514.4	420.9	371.5	351.5	352.8	358.1
40°	6186.6	5680.2	2863.4	1269.4	678.8	450.3	364.8	324.7	310.0	304.6	303.3
42.5°	6766.5	6085.1	2866.2	1166.6	603.9	392.9	326.1	292.6	279.3	275.2	273.9
45°	7349.1	6471.2	2870.2	1059.6	525.1	348.7	298.0	269.9	261.9	256.6	256.6
47.5°	7897.0	6800.0	2795.4	944.7	447.6	315.4	275.2	256.6	249.9	243.2	243.2
50°	8407.4	7019.1	2615.0	811.1	386.1	288.6	257.9	244.6	237.8	231.1	231.1
52.5°	8804.2	7053.8	2317.0	673.4	343.4	268.5	247.2	235.1	227.1	220.5	219.1
55°	8980.6	6836.0	1893.4	545.2	310.0	251.2	236.5	224.5	215.1	208.5	207.2
57.5°	8935.2	6377.8	1476.5	438.3	278.0	233.8	223.1	215.1	204.5	193.7	192.4
60°	8712.1	5764.4	1113.0	364.8	248.6	215.1	208.5	201.7	187.1	171.1	168.4
62.5°	8325.9	4993.4	793.7	302.0	216.5	193.7	191.1	185.7	164.3	135.0	132.3
65°	7735.3	4056.7	534.4	251.2	185.7	169.7	171.1	161.6	133.7	100.2	97.6
67.5°	6872.1	2966.4	342.0	205.8	155.0	141.7	143.0	137.7	113.6	85.5	81.5
70°	5772.4	1964.2	223.1	156.3	124.2	109.6	117.6	118.9	96.2	69.5	66.8
72.5°	4231.7	1159.8	156.3	116.2	90.8	76.2	96.2	98.9	77.5	52.1	49.4
75°	2411.8	550.5	117.6	84.2	56.2	53.4	74.8	74.8	53.4	34.7	32.1
77.5°	1012.8	229.8	82.8	54.7	32.1	30.7	50.7	46.7	26.8	16.0	16.0
80°	292.6	102.9	44.1	26.8	13.3	12.0	20.1	14.7	6.7	2.7	2.7
82.5°	114.9	45.4	17.3	10.7	5.3	5.3	2.7	0.0	0.0	0.0	0.0
85°	68.2	18.8	8.0	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.3	4.0	2.7	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)