

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: P885096

Luminaire Tested: **NAV-SB6B-722-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19888 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

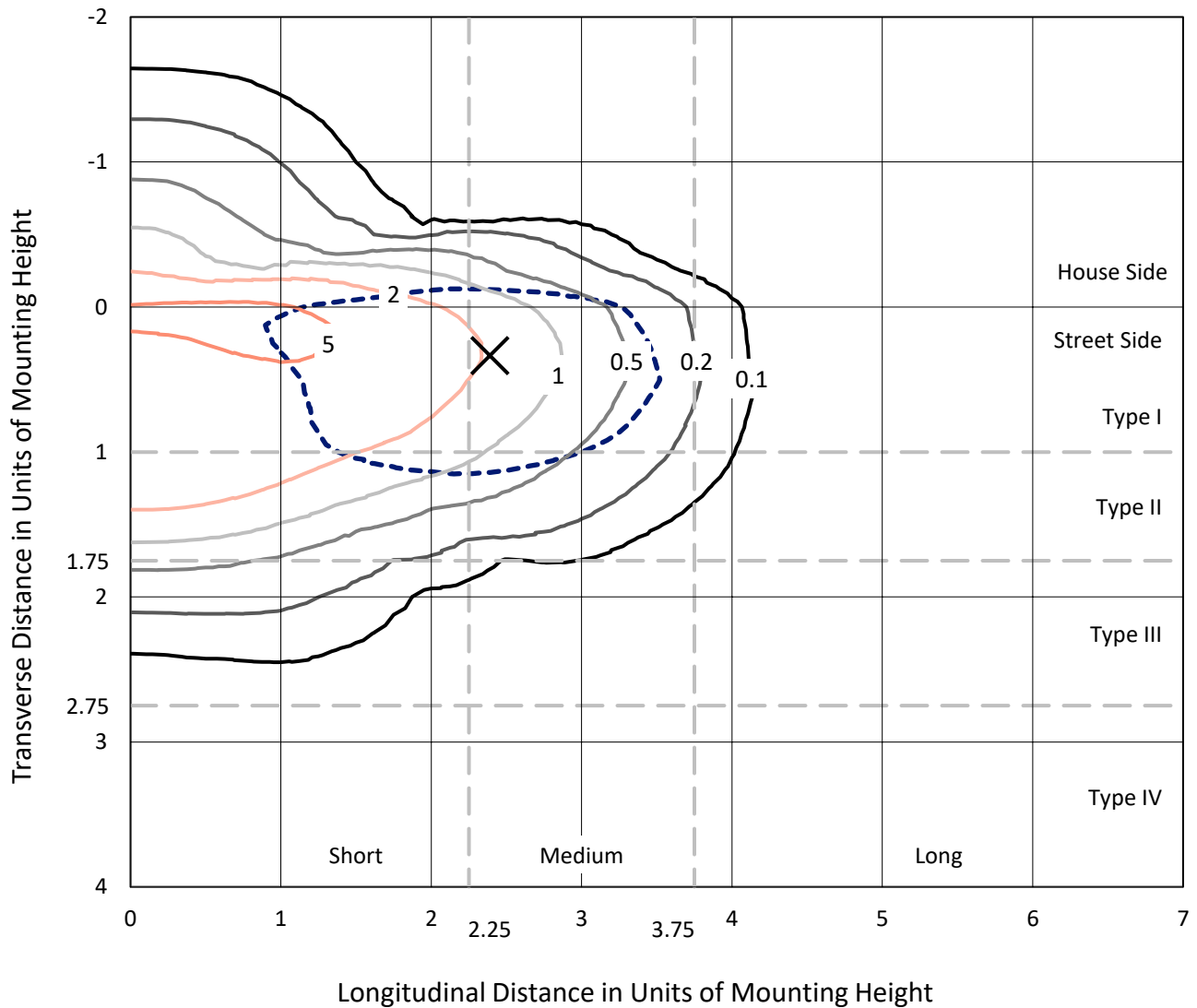
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

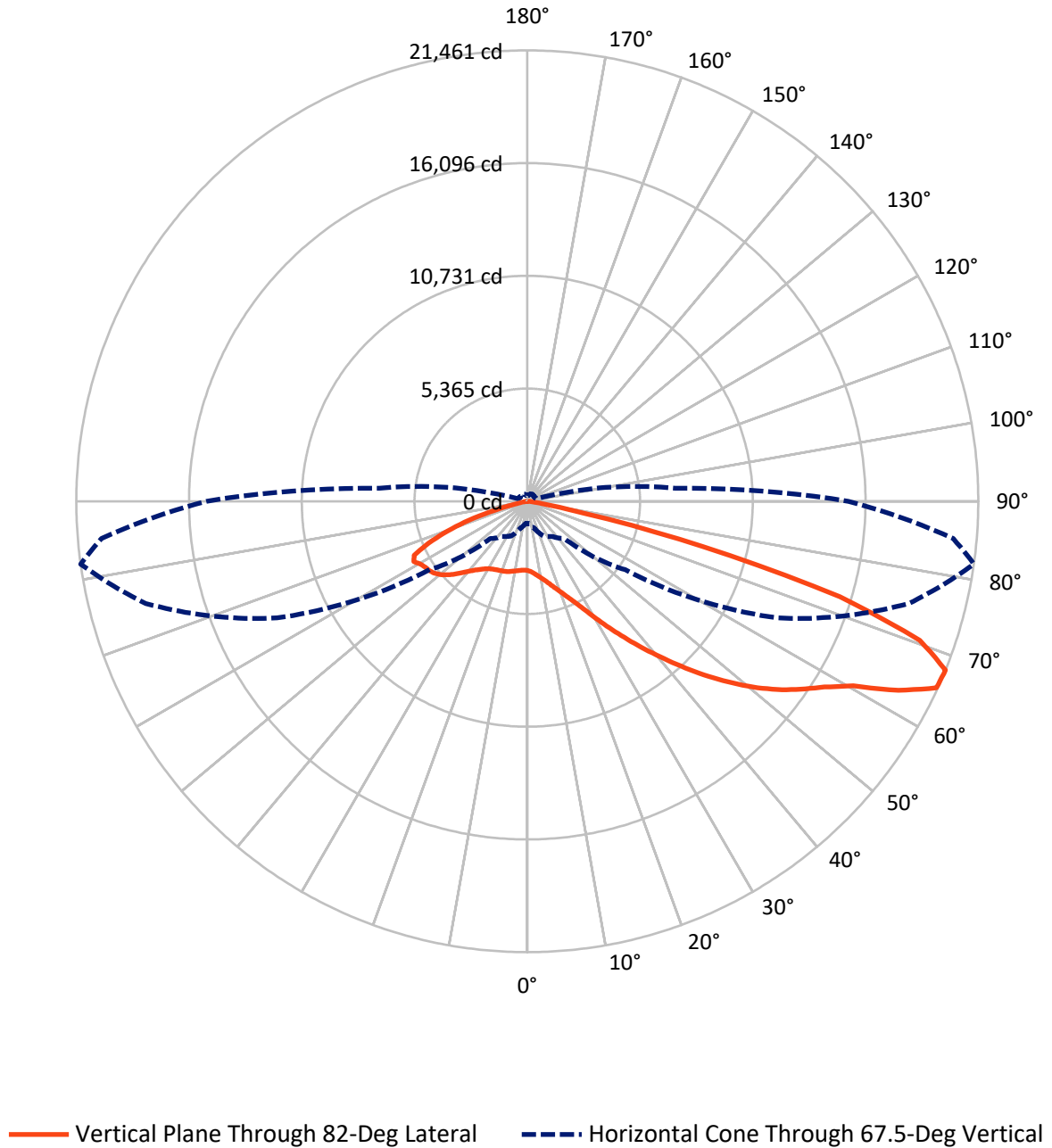
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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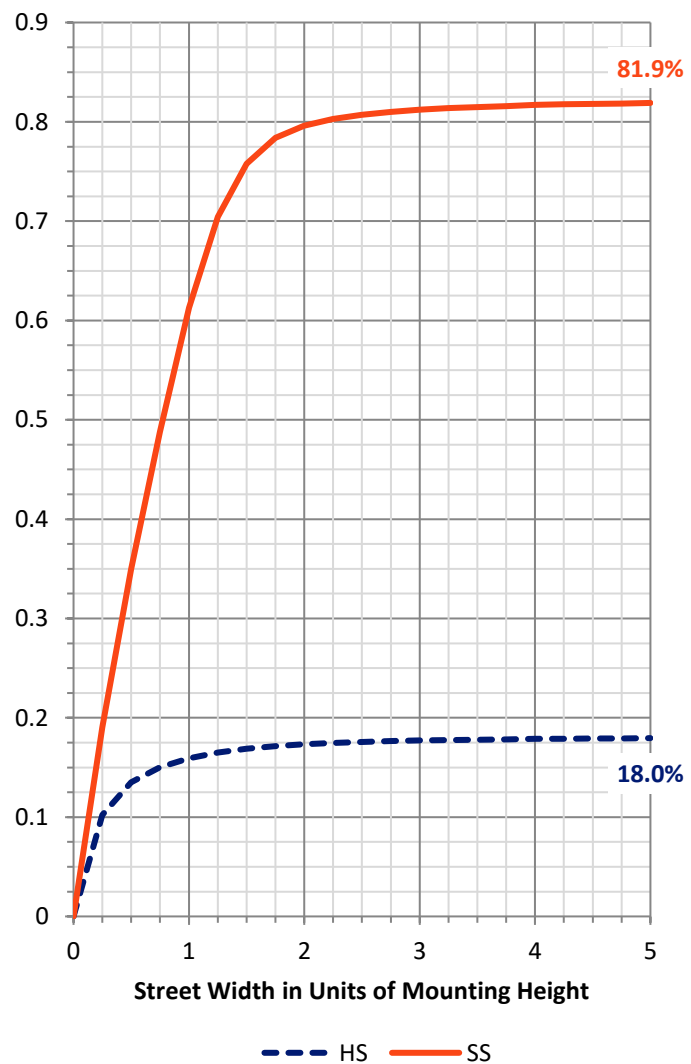
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3602.5	0.0	3602.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16285.5	0.0	16285.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	19888.0	0.0	19888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.5	1.5
10°-20°	762.8	3.8
20°-30°	1221.7	6.1
30°-40°	2160.4	10.9
40°-50°	3785.3	19.0
50°-60°	5048.5	25.4
60°-70°	4699.9	23.6
70°-80°	1803.8	9.1
80°-90°	112.0	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°	19888.0	100.0
0°-180°	19888.0	100.0

Coefficient of Utilization



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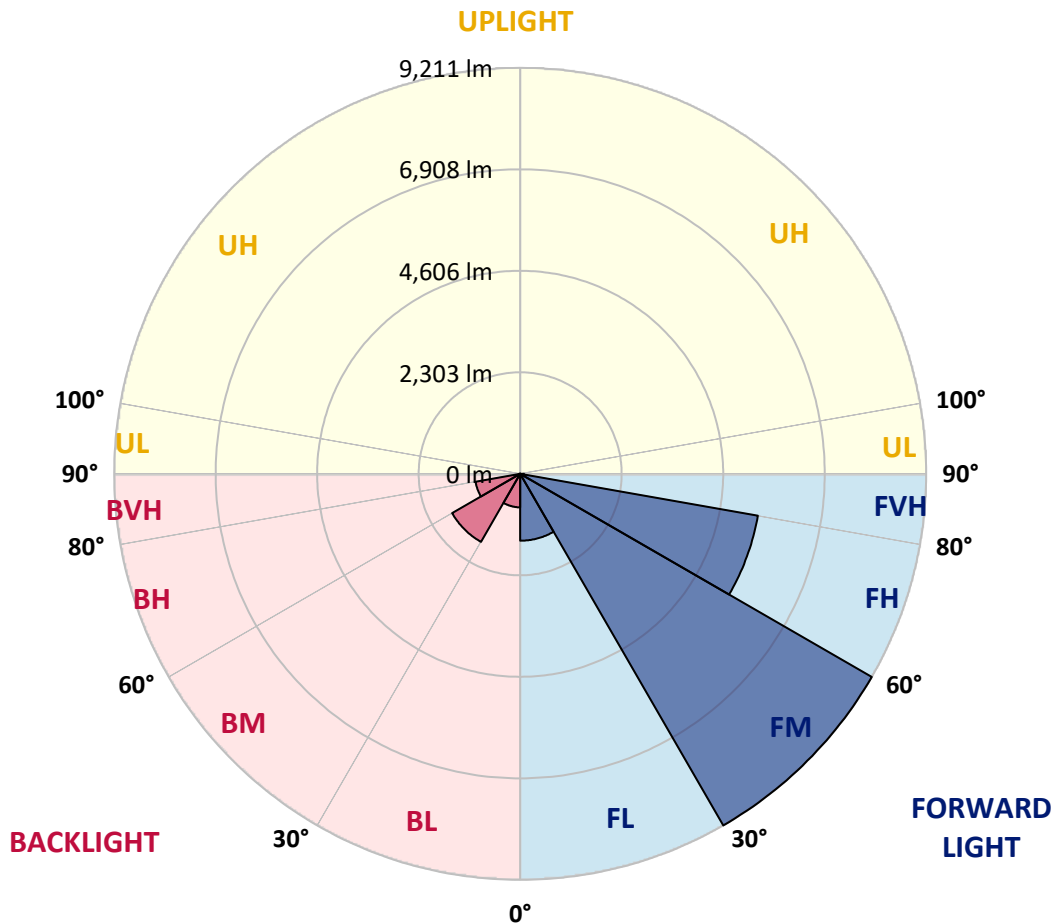
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1517.2	7.6			
FM (30°-60°)	9211.3	46.3			
FH (60°-80°)	5475.5	27.5			G3/7500
FVH (80°-90°)	81.5	0.4			G1/100
BL (0°-30°)	760.8	3.8	B2/1000		
BM (30°-60°)	1782.9	9.0	B2/2500		
BH (60°-80°)	1028.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	30.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8
2.5°	3482.3	3502.4	3490.9	3485.2	3475.2	3460.9	3449.4	3413.6	3376.4	3352.0	3343.5
5°	3552.5	3572.6	3571.1	3576.9	3584.0	3588.3	3585.4	3545.3	3492.4	3450.8	3426.5
7.5°	3492.4	3515.3	3533.9	3562.5	3612.6	3665.6	3691.4	3682.8	3628.4	3571.1	3541.1
10°	3322.0	3346.3	3390.7	3458.0	3564.0	3678.5	3774.5	3818.8	3784.5	3721.5	3679.9
12.5°	3009.8	3034.2	3121.5	3267.6	3445.1	3644.1	3827.4	3946.3	3954.9	3891.9	3843.2
15°	2659.0	2683.4	2776.4	2959.7	3230.3	3549.6	3856.1	4080.9	4156.8	4102.4	4043.6
17.5°	2441.4	2462.8	2533.0	2680.5	2962.6	3360.6	3846.0	4224.1	4397.3	4354.4	4284.2
20°	2375.5	2394.1	2427.0	2530.1	2765.0	3164.5	3780.2	4358.7	4656.5	4632.1	4553.4
22.5°	2445.7	2462.8	2472.9	2518.7	2666.2	3035.6	3697.1	4496.1	4957.2	4960.1	4864.1
25°	2607.5	2624.6	2613.2	2641.8	2706.3	2995.5	3665.6	4657.9	5335.2	5366.7	5257.9
27.5°	2873.8	2875.2	2848.0	2846.6	2856.6	3055.6	3698.6	4831.2	5812.0	5870.7	5736.1
30°	3407.9	3386.4	3281.9	3168.8	3117.2	3236.1	3790.2	5035.9	6374.8	6479.3	6310.3
32.5°	4231.2	4199.7	4007.8	3737.2	3465.2	3526.7	3954.9	5269.3	6987.6	7176.6	6970.4
35°	5124.7	5116.1	4915.7	4513.3	4037.9	3940.5	4222.6	5575.8	7656.3	7957.0	7712.1
37.5°	5955.2	5950.9	5836.4	5362.4	4783.9	4517.6	4652.2	5976.7	8372.2	8807.5	8518.3
40°	6714.1	6727.0	6612.4	6188.6	5605.8	5257.9	5236.4	6472.1	9168.4	9734.0	9390.3
42.5°	7369.9	7384.2	7268.3	6954.7	6417.7	6076.9	5953.8	7079.2	9945.9	10729.1	10322.5
45°	7815.2	7904.0	7886.8	7636.2	7251.1	6897.4	6815.8	7841.0	10832.2	11784.4	11307.6
47.5°	7941.2	8022.9	8151.7	8186.1	7951.3	7603.3	7700.7	8758.8	11728.6	12841.1	12298.5
50°	7630.5	7706.4	7974.2	8330.7	8493.9	8386.6	8561.2	9742.5	12646.4	13895.0	13270.7
52.5°	7017.7	7095.0	7432.9	7997.1	8662.9	9000.8	9424.7	10711.9	13535.6	14893.0	14191.4
55°	6131.3	6213.0	6646.8	7285.4	8340.7	9254.3	10144.9	11679.9	14350.4	15790.8	15021.9
57.5°	4925.7	4985.8	5436.9	6330.4	7530.3	9002.3	10676.1	12736.6	15117.8	16672.9	15845.2
60°	3210.3	3263.3	3787.3	4783.9	6187.2	8160.3	10782.1	13915.1	16137.3	17819.8	16955.0
62.5°	2134.9	2170.7	2481.5	3213.2	4357.2	6543.7	10162.1	14855.8	17632.2	19815.9	18857.9
65°	1464.8	1500.6	1811.3	2321.1	2815.1	4328.6	8379.4	14731.2	18986.8	21401.0	20268.3
67.5°	1045.3	1075.3	1338.8	1819.9	2037.6	2514.4	5680.3	13139.0	18792.1	21461.1	20344.2
70°	748.9	766.1	983.7	1417.6	1619.5	1510.6	3158.7	10049.0	16453.8	19817.3	18794.9
72.5°	524.1	529.8	683.0	1079.6	1304.4	1102.6	1503.5	6699.8	12444.5	15554.6	14570.9
75°	355.1	362.3	459.6	791.8	1046.7	841.9	796.1	3592.6	7305.5	8609.9	7717.9
77.5°	217.6	220.5	296.4	541.3	783.2	641.5	512.6	1522.1	2826.5	2775.0	2365.5
80°	123.1	123.1	189.0	336.5	534.1	413.8	359.4	647.2	894.9	786.1	693.0
82.5°	68.7	70.2	137.5	209.1	353.7	244.9	197.6	299.3	386.6	342.2	297.8
85°	28.6	31.5	84.5	98.8	169.0	121.7	80.2	126.0	143.2	127.4	93.1
87.5°	2.9	4.3	25.8	18.6	20.0	24.3	11.5	24.3	20.0	20.0	14.3
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°	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8
2.5°	3316.2	3294.8	3240.4	3177.4	3094.3	3054.2	2999.8	2962.6	2931.1	2933.9	2905.3
5°	3380.7	3326.3	3204.6	3052.8	2863.8	2729.2	2586.0	2487.2	2407.0	2389.8	2351.2
7.5°	3469.5	3383.5	3170.2	2896.7	2577.4	2335.4	2119.2	1980.3	1881.5	1850.0	1818.5
10°	3584.0	3459.4	3125.8	2700.5	2240.9	1933.0	1701.1	1592.3	1525.0	1502.0	1484.9
12.5°	3717.2	3546.8	3067.1	2461.4	1894.4	1598.0	1450.5	1396.1	1374.6	1367.5	1363.2
15°	3884.7	3655.6	2978.3	2177.9	1600.8	1393.2	1330.2	1323.1	1325.9	1323.1	1321.6
17.5°	4083.7	3774.5	2833.7	1885.8	1403.2	1288.7	1265.8	1271.5	1278.7	1277.2	1274.4
20°	4301.4	3891.9	2649.0	1626.6	1268.7	1214.2	1201.4	1207.1	1212.8	1209.9	1208.5
22.5°	4549.1	4017.9	2444.2	1424.7	1178.4	1145.5	1131.2	1132.6	1132.6	1126.9	1124.0
25°	4845.5	4156.8	2229.4	1281.5	1109.7	1083.9	1066.8	1061.0	1052.4	1035.3	1032.4
27.5°	5199.2	4304.2	2023.3	1181.3	1055.3	1031.0	1010.9	996.6	975.1	946.5	943.6
30°	5597.2	4483.2	1848.6	1118.3	1012.3	988.0	965.1	943.6	912.1	876.3	873.5
32.5°	6065.5	4675.1	1721.1	1076.8	973.7	947.9	920.7	894.9	860.6	824.8	826.2
35°	6623.9	4907.1	1646.7	1048.1	943.6	909.2	879.2	850.5	824.8	793.3	790.4
37.5°	7229.6	5153.4	1623.8	1033.8	923.6	870.6	836.2	816.2	813.3	794.7	793.3
40°	7892.6	5445.5	1640.9	1025.2	902.1	833.4	796.1	791.8	799.0	766.1	767.5
42.5°	8594.2	5792.0	1669.6	1015.2	872.0	796.1	760.3	760.3	754.6	708.8	708.8
45°	9353.1	6191.5	1698.2	990.9	836.2	758.9	731.7	721.7	697.3	652.9	651.5
47.5°	10117.7	6598.1	1719.7	946.5	793.3	727.4	703.1	680.1	644.3	604.3	602.8
50°	10843.7	6963.3	1696.8	880.6	744.6	697.3	671.6	640.1	601.4	574.2	569.9
52.5°	11492.3	7279.7	1599.4	803.3	693.0	665.8	642.9	610.0	578.5	549.8	547.0
55°	12056.5	7536.0	1427.6	730.3	647.2	638.6	615.7	574.2	531.2	506.9	504.0
57.5°	12597.7	7730.7	1212.8	670.1	605.7	608.6	574.2	537.0	496.9	471.1	468.2
60°	13318.0	7991.4	995.2	614.3	561.3	569.9	532.7	505.5	455.3	422.4	418.1
62.5°	14469.2	8396.6	790.4	545.5	509.8	512.6	496.9	463.9	403.8	365.1	362.3
65°	15382.7	8247.7	622.9	471.1	451.0	455.3	455.3	419.5	355.1	310.7	306.4
67.5°	15279.7	7062.1	496.9	398.1	395.2	398.1	408.1	378.0	315.0	279.2	273.5
70°	14075.4	5617.3	398.1	330.8	343.7	336.5	365.1	345.1	283.5	247.7	243.4
72.5°	11485.2	4046.5	303.6	273.5	263.5	274.9	329.3	310.7	236.3	196.2	191.9
75°	6711.2	2159.3	226.2	216.2	190.4	229.1	292.1	264.9	180.4	144.6	140.3
77.5°	2185.1	753.2	166.1	158.9	141.8	184.7	249.1	223.4	147.5	114.6	110.3
80°	585.6	227.7	113.1	104.5	91.6	137.5	197.6	177.6	106.0	74.5	73.0
82.5°	234.8	95.9	65.9	58.7	50.1	94.5	156.1	143.2	78.8	47.3	47.3
85°	75.9	31.5	24.3	18.6	22.9	58.7	93.1	97.4	55.8	24.3	18.6
87.5°	10.0	4.3	4.3	5.7	4.3	10.0	28.6	27.2	15.8	2.9	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)