

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: P963968

Luminaire Tested: **NAV-SB3B-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-727-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15965.4 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

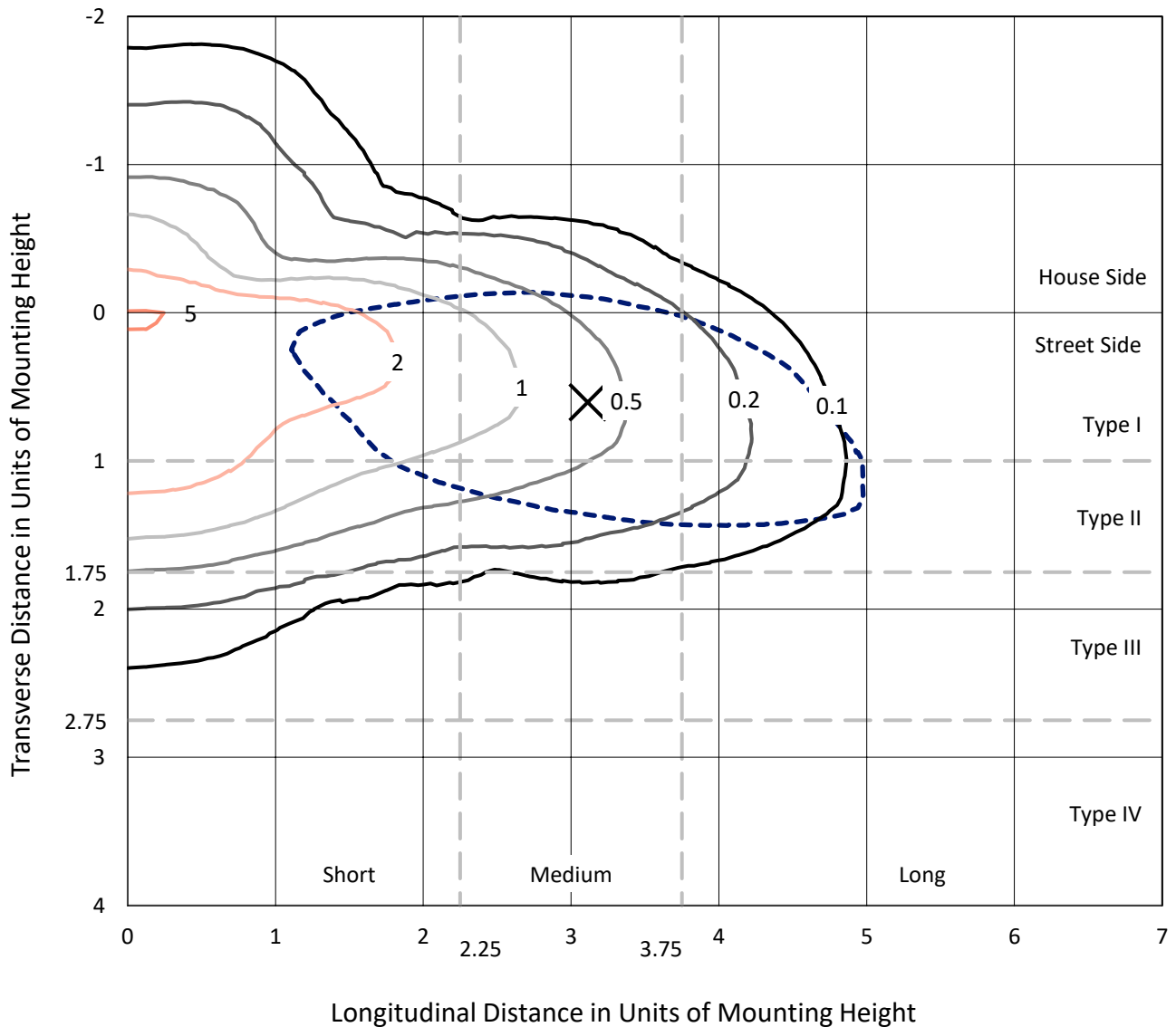
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

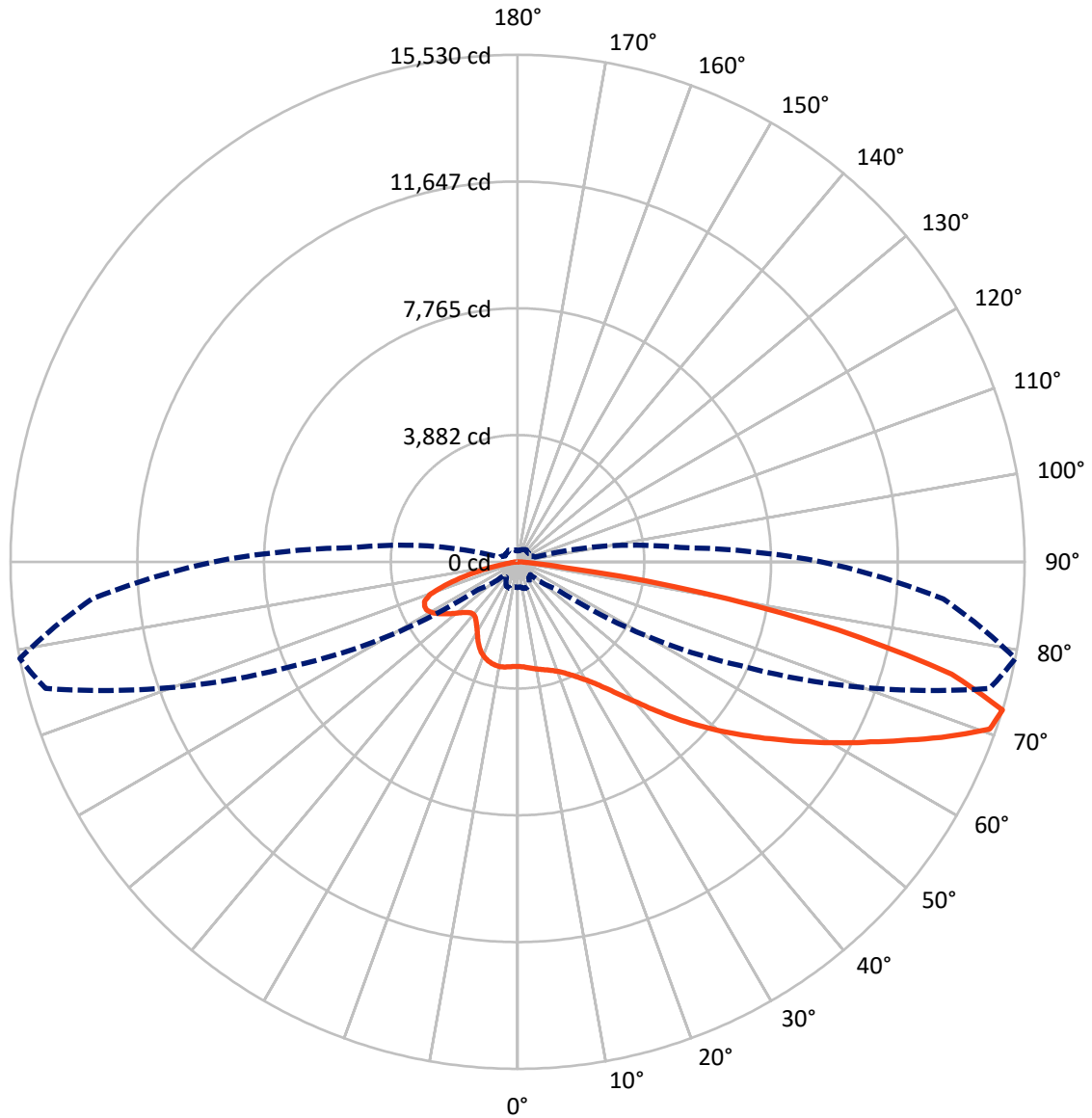
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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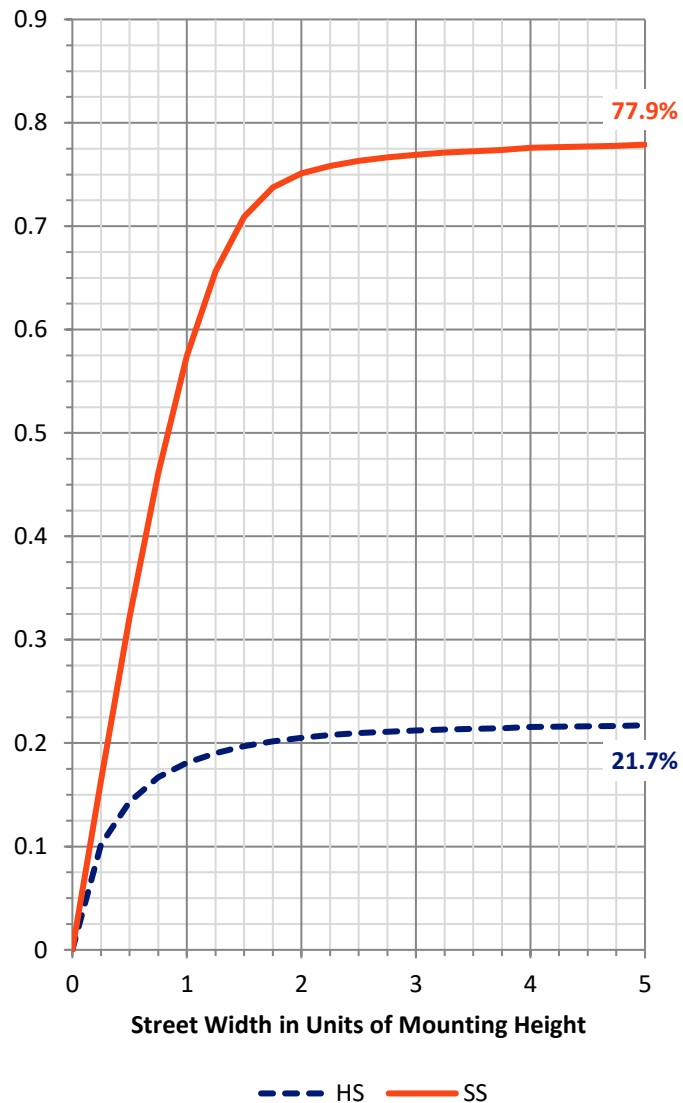
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3513.3	0.0	3513.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	12452.1	0.0	12452.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	15965.4	0.0	15965.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.9	1.8
10°-20°	760.6	4.8
20°-30°	1227.3	7.7
30°-40°	1842.0	11.5
40°-50°	2612.9	16.4
50°-60°	3299.8	20.7
60°-70°	3351.4	21.0
70°-80°	2284.1	14.3
80°-90°	296.4	1.9
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°	15965.4	100.0
0°-180°	15965.4	100.0

Coefficient of Utilization

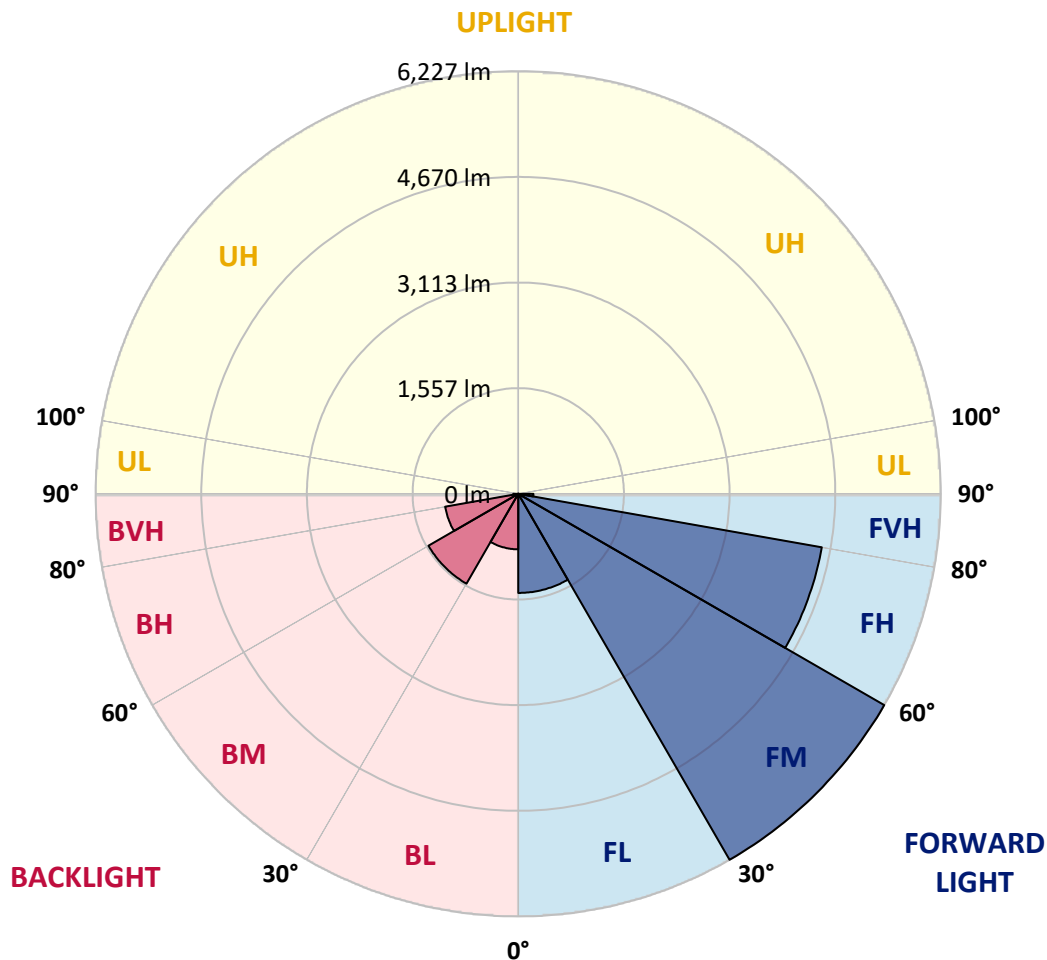


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1460.4	9.1			
FM (30°-60°)	6226.8	39.0			
FH (60°-80°)	4541.6	28.4			G2/5000
FVH (80°-90°)	223.2	1.4			G2/225
BL (0°-30°)	818.3	5.1	B2/1000		
BM (30°-60°)	1527.9	9.6	B2/2500		
BH (60°-80°)	1093.9	6.9	B3/2500		G3/2500
BVH (80°-90°)	73.1	0.5			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°	79°	85°
0°	3204.9	3204.9	3204.9	3204.9	3204.9	3204.9	3204.9	3204.9	3204.9	3204.9	3204.9
2.5°	3206.6	3191.4	3200.7	3197.3	3201.5	3206.6	3208.2	3210.8	3219.2	3218.4	3217.6
5°	3199.8	3184.7	3197.3	3193.1	3204.0	3215.8	3226.0	3235.3	3248.8	3254.7	3246.3
7.5°	3185.5	3175.3	3188.1	3200.7	3221.0	3238.7	3253.0	3274.2	3293.5	3296.9	3302.9
10°	3101.9	3094.3	3123.8	3156.8	3212.5	3260.6	3291.9	3316.4	3337.5	3340.9	3349.3
12.5°	3014.9	3005.6	3038.5	3083.3	3173.6	3260.6	3326.5	3358.6	3377.2	3388.1	3400.8
15°	3000.5	2992.9	3011.6	3050.4	3125.5	3237.9	3350.1	3409.3	3425.3	3438.0	3443.1
17.5°	3069.8	3055.4	3063.0	3076.5	3120.4	3216.8	3368.8	3466.7	3491.2	3504.7	3504.7
20°	3230.3	3210.0	3198.1	3171.1	3163.6	3220.1	3367.0	3535.9	3568.0	3584.9	3589.1
22.5°	3443.9	3430.4	3405.0	3336.7	3262.4	3261.4	3399.1	3624.6	3684.6	3700.7	3690.5
25°	3702.3	3682.0	3649.9	3557.1	3414.4	3343.4	3453.2	3737.8	3838.3	3842.5	3812.9
27.5°	3999.6	3969.2	3925.2	3802.9	3610.3	3471.8	3535.9	3867.8	4014.8	4013.1	3952.3
30°	4312.9	4282.4	4236.0	4087.4	3845.1	3644.9	3650.8	4008.1	4224.2	4214.9	4111.1
32.5°	4541.8	4518.9	4509.7	4394.8	4115.3	3849.3	3782.6	4163.4	4482.6	4474.2	4329.0
35°	4717.5	4687.8	4698.8	4640.6	4410.1	4078.2	3943.9	4348.4	4796.8	4796.0	4615.3
37.5°	4891.4	4865.2	4874.5	4835.6	4682.8	4368.7	4140.6	4574.7	5186.1	5204.6	4961.5
40°	5050.2	5022.3	5059.4	5023.1	4894.8	4677.7	4364.4	4830.6	5637.1	5672.6	5380.3
42.5°	5145.6	5123.7	5185.3	5186.1	5078.9	4938.7	4610.1	5112.6	6159.0	6238.4	5895.5
45°	5178.5	5170.9	5263.8	5283.3	5241.8	5089.8	4831.4	5420.0	6721.4	6863.3	6482.4
47.5°	5143.0	5128.7	5257.0	5328.9	5361.8	5160.8	5014.7	5752.8	7295.6	7503.4	7122.5
50°	4964.0	4936.1	5127.0	5278.1	5395.6	5207.2	5199.6	6137.0	7948.5	8175.7	7766.1
52.5°	4642.2	4621.1	4838.2	5100.8	5321.2	5230.1	5407.4	6556.7	8568.4	8862.3	8425.6
55°	4231.0	4203.1	4442.1	4785.0	5136.3	5222.5	5615.2	7026.3	9299.7	9597.8	9107.1
57.5°	3579.0	3523.2	3825.6	4231.0	4834.8	5213.2	5831.3	7493.3	10042.8	10400.1	9834.3
60°	2628.1	2545.4	2916.1	3396.6	4245.3	5122.7	6099.1	8016.9	10934.7	11256.4	10628.1
62.5°	1530.2	1482.1	1724.5	2172.9	3199.8	4590.8	6249.3	8625.8	11811.3	12149.1	11408.5
65°	1188.2	1174.8	1195.9	1230.4	1781.0	3437.1	5785.7	9219.5	12926.0	13162.4	12221.7
67.5°	1086.9	1076.8	1086.0	1021.0	903.6	1914.5	4577.2	9369.8	14120.2	14263.7	12933.7
70°	966.2	954.3	984.7	929.0	711.0	870.6	2957.4	8824.2	15070.3	15339.6	13475.0
72.5°	787.1	773.6	844.5	819.2	598.8	559.0	1485.5	7527.9	14970.5	15529.7	13087.3
75°	604.6	597.1	681.5	702.6	488.1	440.0	712.8	5595.7	13174.3	13737.6	11279.2
77.5°	469.6	463.6	506.7	583.5	393.5	341.2	438.3	3549.5	9928.0	10026.9	7772.9
80°	352.2	335.3	374.9	451.8	306.6	249.2	297.2	2069.9	6275.6	5688.5	3383.1
82.5°	220.4	212.0	244.9	301.5	216.2	171.5	193.4	1143.5	2514.9	1481.2	652.8
85°	125.9	122.5	133.5	172.3	117.4	98.8	110.6	505.0	459.4	315.8	196.8
87.5°	50.6	49.0	60.8	76.9	43.0	36.3	38.8	121.6	101.4	93.8	65.0
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°	3204.9	3204.9	3204.9	3204.9	3204.9	3204.9	3204.9	3204.9	3204.9	3204.9	3204.9
2.5°	3214.2	3214.2	3202.4	3183.8	3162.6	3149.2	3127.2	3121.3	3098.5	3091.7	3102.7
5°	3253.0	3246.3	3210.0	3157.6	3085.9	3020.0	2947.3	2901.8	2837.5	2814.8	2831.7
7.5°	3302.0	3283.5	3221.0	3106.1	2955.8	2808.0	2654.2	2537.7	2426.3	2386.6	2391.6
10°	3346.8	3320.6	3214.2	3013.2	2753.0	2497.2	2252.3	2080.9	1950.8	1897.6	1909.5
12.5°	3391.5	3343.4	3169.4	2858.6	2465.1	2118.1	1857.1	1723.6	1643.4	1579.2	1600.3
15°	3433.7	3366.2	3100.2	2651.8	2149.2	1797.1	1604.5	1498.1	1434.0	1391.7	1399.3
17.5°	3482.7	3385.7	2996.3	2389.1	1848.6	1575.0	1417.9	1353.7	1341.1	1336.0	1339.4
20°	3551.1	3403.4	2859.5	2095.2	1627.4	1397.7	1316.6	1310.7	1309.8	1307.3	1315.7
22.5°	3624.6	3424.5	2678.7	1828.4	1439.0	1287.0	1272.6	1260.9	1253.3	1252.4	1261.7
25°	3711.6	3431.2	2452.4	1609.7	1278.6	1234.7	1217.8	1200.1	1194.9	1194.9	1200.1
27.5°	3796.1	3408.4	2189.0	1419.6	1188.2	1186.5	1164.6	1158.7	1157.8	1160.4	1167.1
30°	3880.5	3365.4	1927.2	1243.9	1135.9	1135.9	1128.2	1132.5	1135.9	1144.3	1150.3
32.5°	3994.5	3319.8	1708.5	1113.9	1090.3	1081.8	1089.4	1097.9	1101.3	1112.2	1121.6
35°	4161.7	3287.7	1534.4	1042.9	1042.9	1032.0	1036.2	1034.5	1026.9	1021.8	1033.7
37.5°	4383.0	3285.9	1390.9	1010.0	1003.3	1001.6	1002.4	991.5	961.9	926.4	927.3
40°	4649.0	3331.6	1280.2	987.2	982.2	992.3	987.2	957.7	876.6	815.0	813.2
42.5°	5006.2	3461.6	1209.3	959.4	974.6	987.2	967.0	864.8	809.9	768.5	766.8
45°	5426.8	3672.8	1173.0	929.8	960.2	975.4	877.4	832.7	788.7	738.9	735.5
47.5°	5903.1	3938.8	1164.6	901.9	928.1	937.4	839.5	819.2	769.4	715.3	711.0
50°	6421.6	4253.8	1187.4	869.0	881.7	849.6	826.8	808.2	756.7	703.5	697.5
52.5°	6957.9	4600.9	1233.0	824.2	835.2	799.7	821.7	805.6	749.1	677.3	672.2
55°	7484.9	4950.5	1276.9	771.9	787.9	755.0	807.4	795.5	714.4	633.3	629.1
57.5°	8020.3	5298.4	1320.0	725.4	742.3	712.0	784.5	768.5	675.6	592.9	591.1
60°	8576.8	5636.3	1340.2	680.7	692.5	672.2	749.9	722.0	631.7	551.4	548.9
62.5°	9097.9	5917.4	1307.3	635.9	643.5	635.1	704.3	667.2	587.7	505.0	504.2
65°	9620.6	6084.7	1205.9	592.0	593.7	589.5	640.1	608.0	536.3	464.4	459.4
67.5°	10094.4	6178.4	1044.7	544.7	540.5	538.8	580.2	543.9	486.5	423.9	418.9
70°	10194.9	5940.3	798.1	488.9	488.9	484.7	514.3	477.1	431.5	380.9	379.1
72.5°	9311.5	4997.0	566.6	425.7	432.3	423.9	448.4	417.2	375.8	342.0	331.9
75°	7508.5	3664.3	412.2	360.6	372.4	358.0	380.9	359.0	323.5	322.6	290.5
77.5°	5159.1	2265.8	299.0	297.2	305.8	287.1	313.3	301.5	269.4	255.0	239.0
80°	2201.6	903.6	217.9	229.7	229.7	212.8	243.2	246.6	218.7	212.0	212.0
82.5°	438.3	256.8	152.8	158.0	148.6	143.6	172.3	190.9	263.5	293.0	293.9
85°	131.7	94.6	92.0	86.1	76.1	76.9	101.4	191.7	236.5	135.1	116.5
87.5°	36.3	23.7	24.5	19.4	16.1	21.1	34.6	145.2	79.3	33.8	28.7
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)