

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: P395121

Luminaire Tested: **LAS100S-T3-Switch-7**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-740-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LAS100S-T3-Switch-7
Description: AREA SITE LARGE HOUSING, TYPE III, WATTAGE SWITCH ON POSTION 7
Light Source: (288) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18100 lumens
Efficiency: N/A
Efficacy: 160.3 lumens/watt
Luminous Opening: Rectangular (W 0.88' x L: 1.29' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B3 - U0 - G3

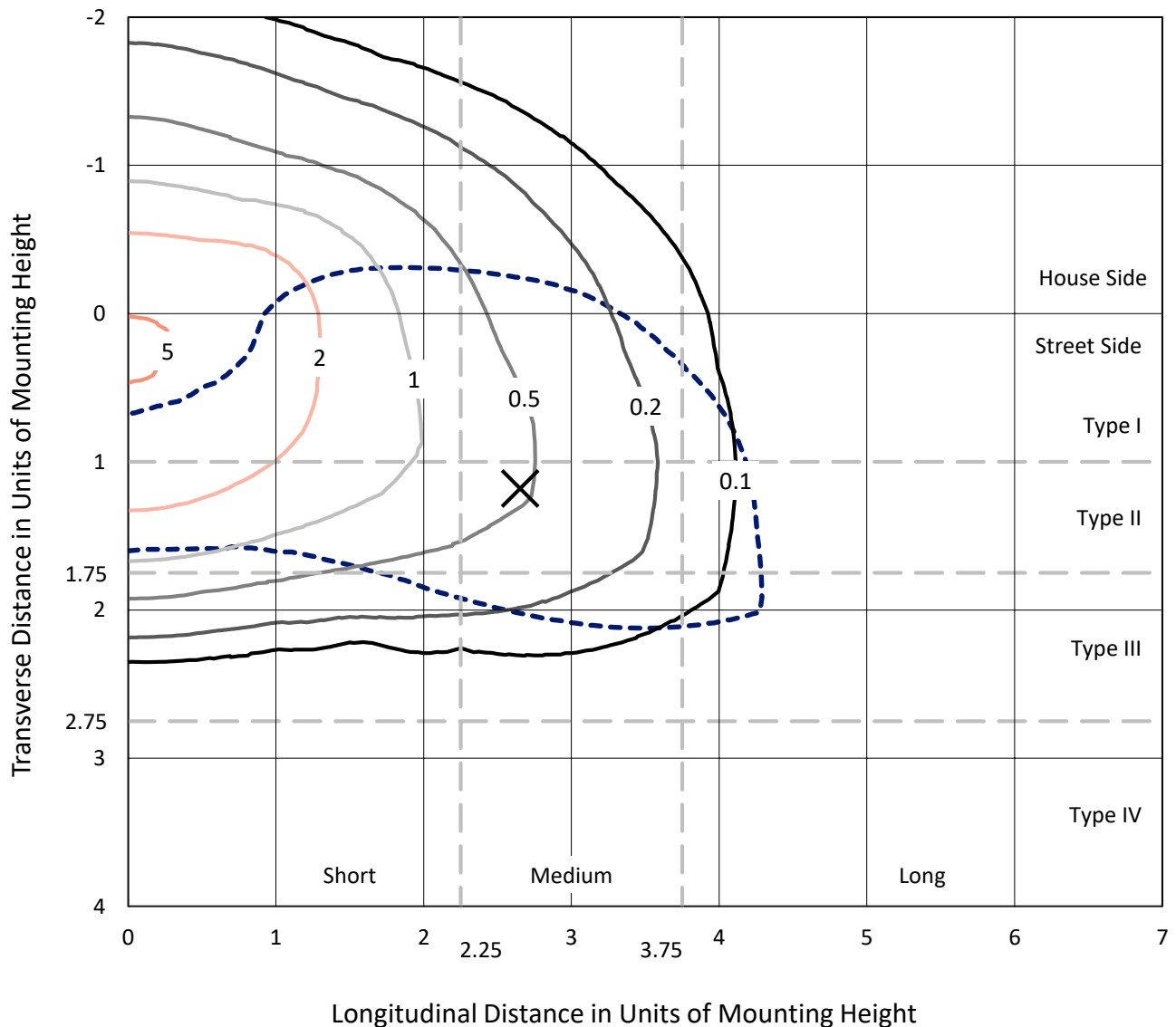
Input Watts (W): 112.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

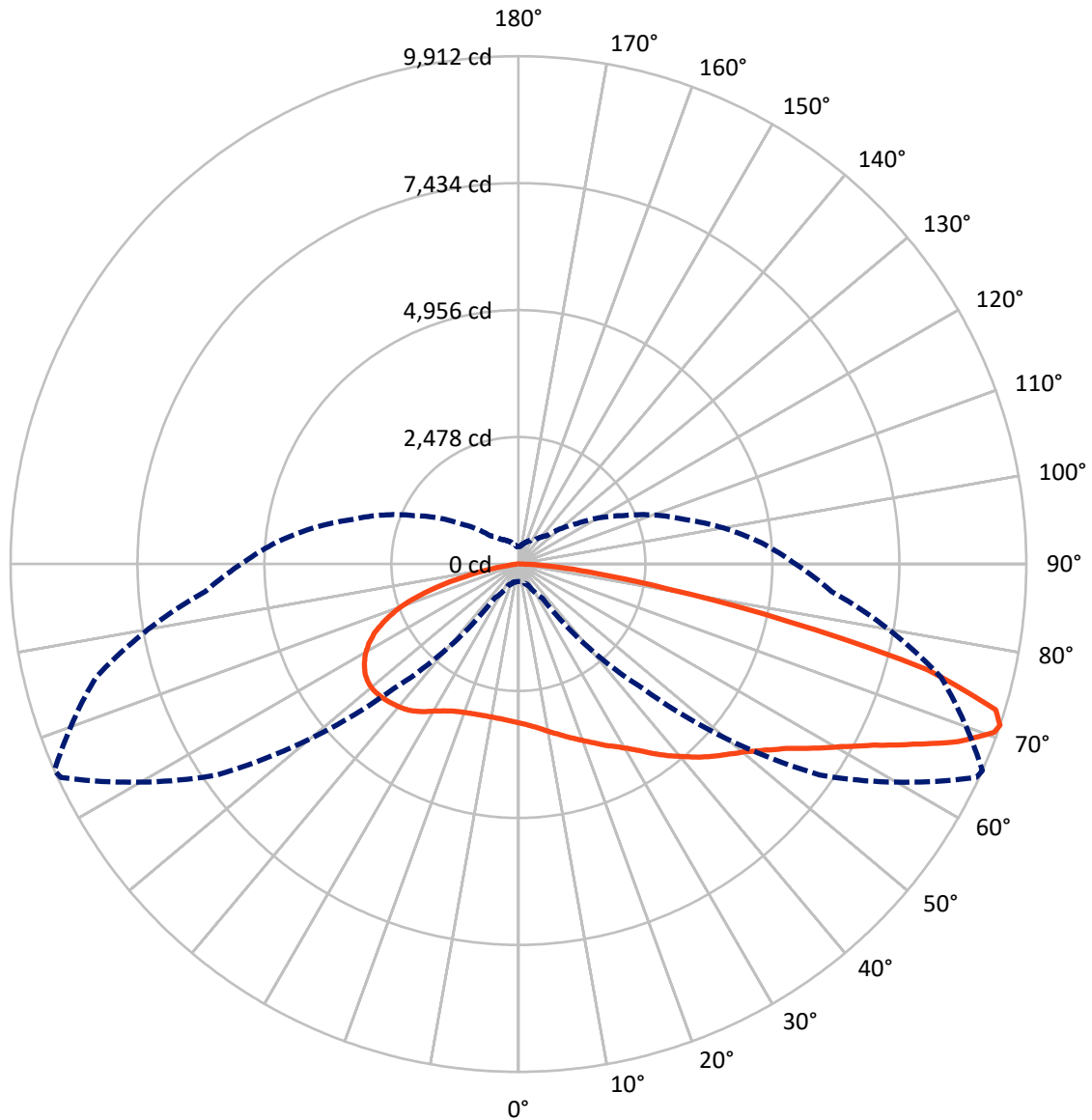
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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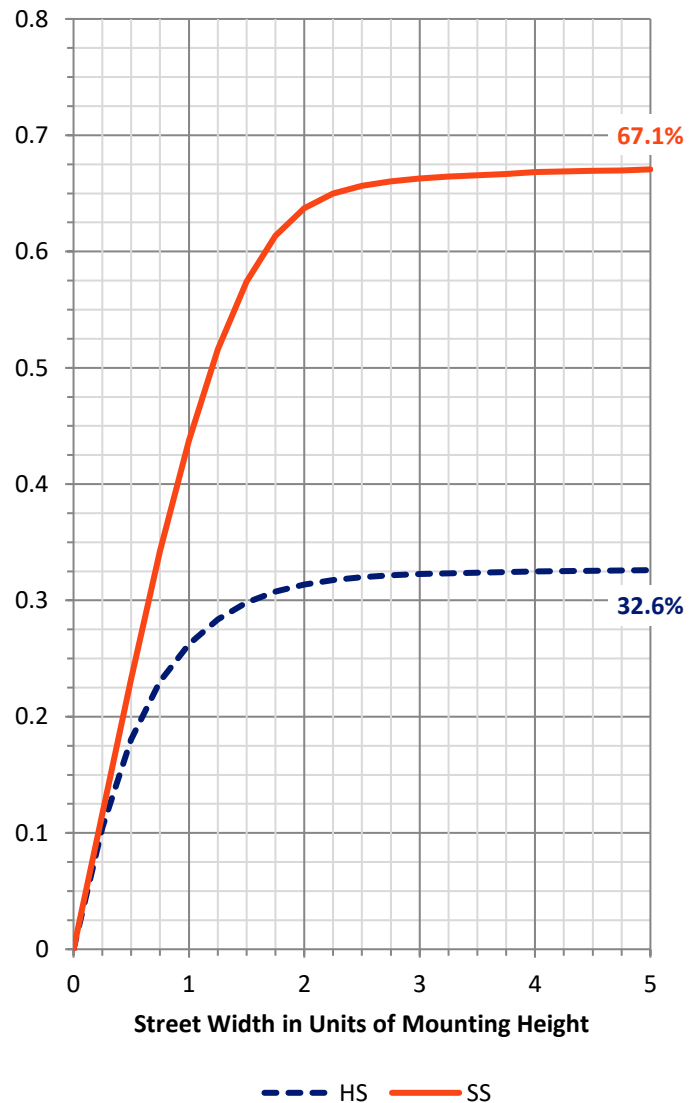
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5938.8	0.0	5938.8
	% Fixture	32.8	0.0	32.8
Street Side	Lumens	12161.2	0.0	12161.2
	% Fixture	67.2	0.0	67.2
Total	Lumens	18100.0	0.0	18100.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.7	1.6
10°-20°	900.3	5.0
20°-30°	1552.4	8.6
30°-40°	2331.7	12.9
40°-50°	3145.1	17.4
50°-60°	3851.1	21.3
60°-70°	3635.6	20.1
70°-80°	2104.1	11.6
80°-90°	282.0	1.6
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°	18100.0	100.0
0°-180°	18100.0	100.0



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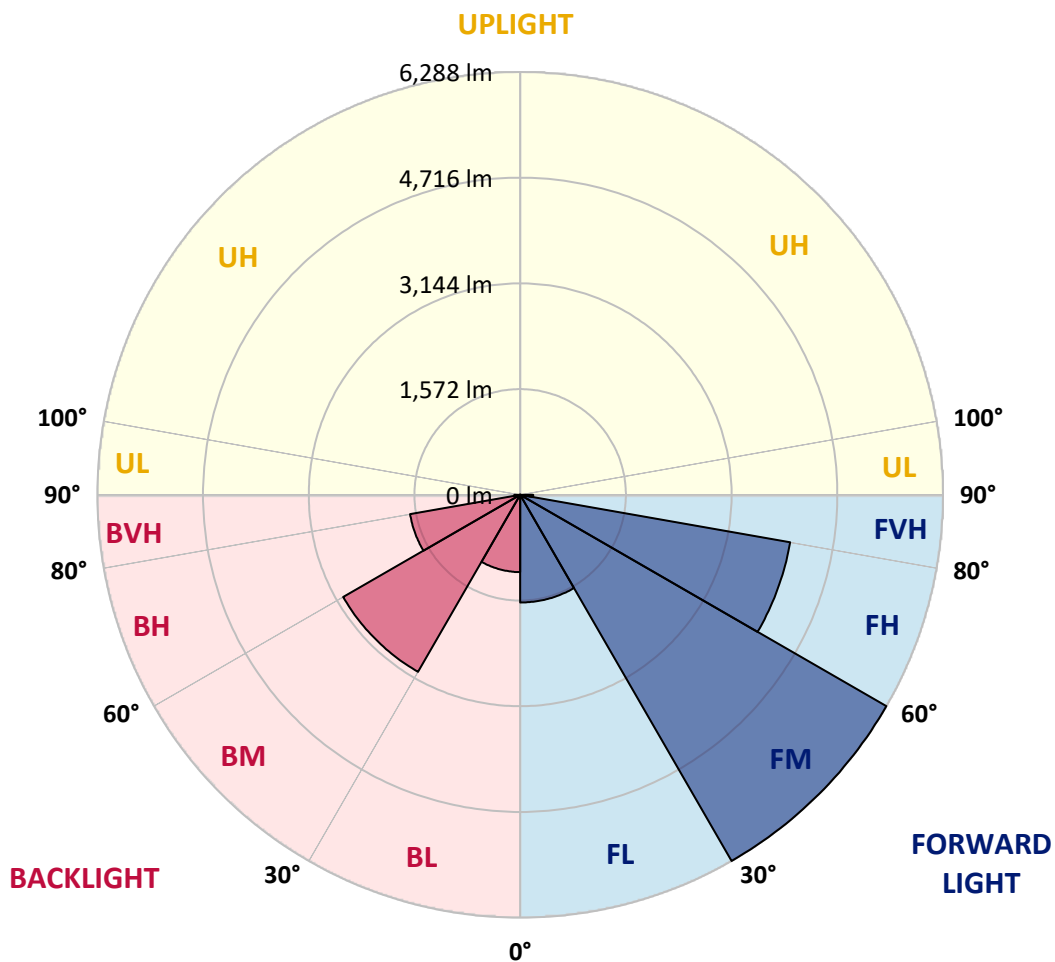
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1601.5	8.8			
FM	(30°-60°)	6288.0	34.7			
FH	(60°-80°)	4077.0	22.5			G2/5000
FVH	(80°-90°)	194.7	1.1			G2/225
BL	(0°-30°)	1148.9	6.3	B3/2500		
BM	(30°-60°)	3040.0	16.8	B3/5000		
BH	(60°-80°)	1662.7	9.2	B3/2500		G3/2500
BVH	(80°-90°)	87.3	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6
2.5°	3183.2	3181.7	3182.7	3179.1	3169.7	3166.1	3156.7	3141.1	3140.6	3127.0	3118.2
5°	3265.9	3264.4	3259.7	3254.0	3244.1	3239.4	3221.7	3192.6	3190.0	3170.7	3147.3
7.5°	3342.4	3341.9	3340.8	3329.9	3319.5	3307.5	3290.4	3260.2	3251.9	3224.3	3188.4
10°	3433.4	3428.7	3425.1	3415.7	3405.3	3390.2	3364.8	3330.4	3329.9	3292.5	3241.5
12.5°	3522.9	3525.0	3517.7	3508.8	3488.5	3475.0	3446.4	3414.7	3403.2	3365.8	3305.5
15°	3622.2	3623.3	3610.8	3603.5	3590.5	3570.7	3531.7	3495.3	3493.7	3445.9	3378.3
17.5°	3741.3	3746.5	3731.4	3721.6	3699.7	3670.1	3629.0	3589.4	3584.8	3536.4	3463.6
20°	3873.4	3867.2	3864.1	3844.3	3824.0	3785.0	3740.3	3695.0	3685.7	3633.1	3557.7
22.5°	4011.8	4010.2	4009.7	3982.7	3960.3	3905.2	3848.0	3802.2	3791.8	3739.2	3657.1
25°	4189.2	4194.4	4168.9	4147.6	4111.1	4039.9	3976.4	3910.9	3917.1	3858.4	3779.8
27.5°	4412.3	4412.3	4400.3	4366.5	4307.8	4207.9	4123.1	4038.3	4035.2	3987.4	3905.7
30°	4703.1	4701.0	4692.1	4659.9	4557.9	4441.9	4289.0	4188.6	4172.5	4109.1	4068.0
32.5°	4856.0	4863.8	4878.9	4872.1	4825.3	4712.9	4513.2	4346.8	4340.0	4268.7	4225.6
35°	4953.8	4961.6	4981.8	5002.1	4975.6	4903.8	4727.0	4563.1	4543.9	4438.3	4400.3
37.5°	5076.5	5078.6	5090.6	5118.6	5116.6	5062.0	4926.7	4766.0	4747.8	4626.6	4595.9
40°	5224.2	5224.8	5234.1	5254.4	5253.9	5203.9	5119.7	4968.3	4936.6	4836.2	4789.9
42.5°	5395.4	5381.3	5394.3	5412.5	5412.5	5374.6	5312.7	5165.5	5154.0	5035.4	4972.0
45°	5552.4	5546.7	5555.0	5564.9	5568.0	5549.3	5494.7	5366.7	5349.1	5223.7	5135.3
47.5°	5712.1	5706.4	5697.6	5731.9	5746.4	5769.3	5713.7	5563.4	5544.1	5377.2	5272.6
50°	5831.7	5828.1	5828.6	5865.0	5925.4	5986.2	5973.2	5791.7	5754.2	5535.8	5395.4
52.5°	5827.1	5822.4	5834.9	5922.3	6062.7	6215.1	6259.3	6071.5	6033.6	5733.4	5509.8
55°	5561.8	5575.3	5639.8	5854.1	6129.3	6463.2	6612.0	6422.6	6352.4	5965.9	5650.2
57.5°	5101.5	5075.5	5222.2	5538.4	6031.5	6629.6	6968.8	6823.1	6782.6	6238.5	5783.9
60°	4293.2	4289.0	4551.7	4978.2	5718.4	6684.8	7346.9	7305.8	7234.0	6561.0	5904.6
62.5°	3185.8	3200.9	3401.2	4080.5	5139.5	6516.2	7725.0	7860.3	7785.9	6941.7	6020.6
65°	1881.3	1886.0	2102.4	2745.3	4162.6	6060.1	7984.1	8548.9	8478.7	7431.2	6134.5
67.5°	789.0	835.9	979.4	1407.5	2847.7	5219.0	7987.7	9243.8	9252.2	7991.9	6232.8
70°	387.0	392.7	451.5	574.7	1186.4	4066.4	7507.1	9803.0	9848.2	8476.1	6214.0
71°	343.3	343.8	368.8	456.2	815.1	3438.6	7176.8	9856.6	9912.2	8538.5	6130.3
72.5°	304.8	304.3	319.4	355.8	527.9	2409.3	6364.4	9661.5	9739.5	8352.8	5880.6
75°	245.0	246.5	257.5	277.2	367.2	1094.4	4631.3	8147.9	8254.5	7072.8	4900.7
77.5°	186.7	190.9	204.9	220.0	274.6	662.1	2934.1	5551.9	5374.6	4495.5	3509.9
80°	139.9	141.5	150.8	167.5	201.8	415.1	1647.8	2874.8	2950.2	2371.8	1901.1
82.5°	97.3	100.4	107.7	116.0	130.6	262.7	999.2	1556.2	1544.8	1016.9	742.2
85°	57.7	60.3	62.9	69.2	74.4	134.2	552.9	783.3	763.6	262.7	156.0
87.5°	21.3	22.4	25.0	23.4	27.0	44.2	189.8	196.1	191.4	45.3	33.3
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°	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6	3103.6
2.5°	3107.8	3104.2	3090.1	3074.0	3060.0	3049.5	3037.1	3027.7	3024.6	3015.2	3017.3
5°	3128.1	3116.6	3082.3	3049.5	3015.7	2987.1	2961.6	2941.9	2927.3	2916.4	2924.7
7.5°	3160.9	3139.5	3089.1	3032.9	2978.3	2932.0	2891.4	2852.9	2826.4	2817.6	2812.4
10°	3206.6	3177.5	3102.6	3023.0	2946.6	2877.4	2809.8	2763.0	2718.2	2700.0	2689.6
12.5°	3264.4	3222.2	3123.4	3022.0	2919.0	2819.6	2718.7	2648.0	2587.7	2567.9	2555.4
15°	3333.5	3280.5	3158.3	3027.7	2889.3	2744.2	2620.4	2524.2	2450.9	2423.3	2416.0
17.5°	3407.9	3346.5	3200.4	3038.1	2859.2	2673.0	2521.6	2405.1	2324.5	2292.8	2291.7
20°	3499.5	3430.3	3254.0	3058.9	2829.0	2602.8	2423.3	2296.4	2213.7	2173.1	2165.8
22.5°	3605.1	3526.0	3326.8	3082.8	2804.0	2531.5	2330.2	2185.1	2100.3	2063.9	2055.6
25°	3716.4	3630.5	3414.2	3122.4	2782.2	2472.2	2242.8	2093.0	2005.6	1965.1	1956.7
27.5°	3855.2	3760.6	3517.2	3182.7	2771.3	2416.5	2167.9	2006.7	1918.3	1870.9	1867.8
30°	4011.3	3918.7	3654.5	3253.4	2775.4	2371.8	2103.4	1930.7	1835.0	1789.3	1777.8
32.5°	4175.6	4087.7	3800.1	3350.7	2786.4	2330.7	2037.9	1853.8	1753.9	1705.0	1697.7
35°	4357.7	4274.5	3954.1	3438.6	2791.6	2278.7	1960.9	1776.8	1674.8	1632.2	1623.9
37.5°	4553.3	4457.6	4111.7	3508.3	2778.0	2213.2	1885.5	1707.6	1609.8	1571.8	1567.2
40°	4742.1	4637.0	4238.6	3556.7	2755.2	2148.7	1818.9	1647.3	1560.9	1528.7	1523.0
42.5°	4908.0	4790.4	4335.8	3595.2	2730.2	2090.9	1763.8	1603.1	1526.6	1498.5	1493.3
45°	5061.4	4924.1	4432.1	3629.5	2706.3	2038.9	1722.7	1570.3	1499.5	1474.6	1471.5
47.5°	5184.2	5045.3	4509.6	3652.9	2672.5	1997.8	1685.8	1541.7	1478.7	1459.5	1457.9
50°	5306.4	5151.4	4575.6	3656.5	2635.0	1957.3	1653.5	1515.7	1460.0	1447.0	1447.0
52.5°	5414.1	5245.0	4621.9	3631.6	2582.5	1911.5	1614.0	1486.5	1438.2	1434.5	1435.6
55°	5519.7	5331.9	4633.9	3572.8	2521.6	1865.7	1570.3	1447.0	1404.4	1407.0	1409.0
57.5°	5607.6	5370.9	4600.6	3472.4	2448.3	1801.2	1511.0	1384.6	1335.2	1336.7	1341.4
60°	5657.5	5364.7	4517.9	3348.1	2343.2	1715.9	1423.1	1284.7	1214.0	1201.0	1207.8
62.5°	5684.0	5323.6	4378.0	3184.3	2219.9	1603.1	1282.7	1121.9	1036.1	1043.4	1038.2
65°	5682.5	5250.2	4191.8	2985.1	2052.5	1417.9	1096.4	928.4	870.7	852.0	850.4
67.5°	5646.1	5111.9	3925.5	2708.9	1826.7	1180.7	873.8	740.7	681.9	679.8	673.1
70°	5506.7	4889.8	3566.0	2396.3	1502.1	882.7	667.3	558.1	505.6	441.1	438.5
71°	5409.9	4757.7	3356.4	2236.6	1356.0	780.2	587.8	499.3	417.7	340.2	340.2
72.5°	5124.9	4512.2	3067.2	1986.4	1105.3	638.2	485.3	401.0	284.5	266.8	267.9
75°	4449.8	3857.8	2509.6	1491.7	747.4	438.0	338.6	262.7	195.1	212.2	217.9
77.5°	3346.0	2945.0	1865.2	938.8	425.5	279.3	234.1	172.7	155.0	174.8	174.2
80°	1917.7	1828.8	1150.0	501.9	185.7	175.8	165.4	125.9	118.6	132.6	132.6
82.5°	943.5	1013.7	628.3	187.2	85.3	102.5	106.1	87.9	82.7	89.5	91.5
85°	309.5	446.8	231.5	67.1	48.9	51.0	46.8	45.3	44.7	46.3	45.8
87.5°	44.7	80.6	33.3	26.0	20.3	17.7	14.6	13.5	11.4	9.9	9.4
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)