

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: P395118

Luminaire Tested: **LAS100S-T3-Switch-4**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395118
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-4
Description: AREA SITE LARGE HOUSING, TYPE III, WATTAGE SWITCH ON POSTION 4
Light Source: (288) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22588 lumens
Efficiency: N/A
Efficacy: 153.9 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

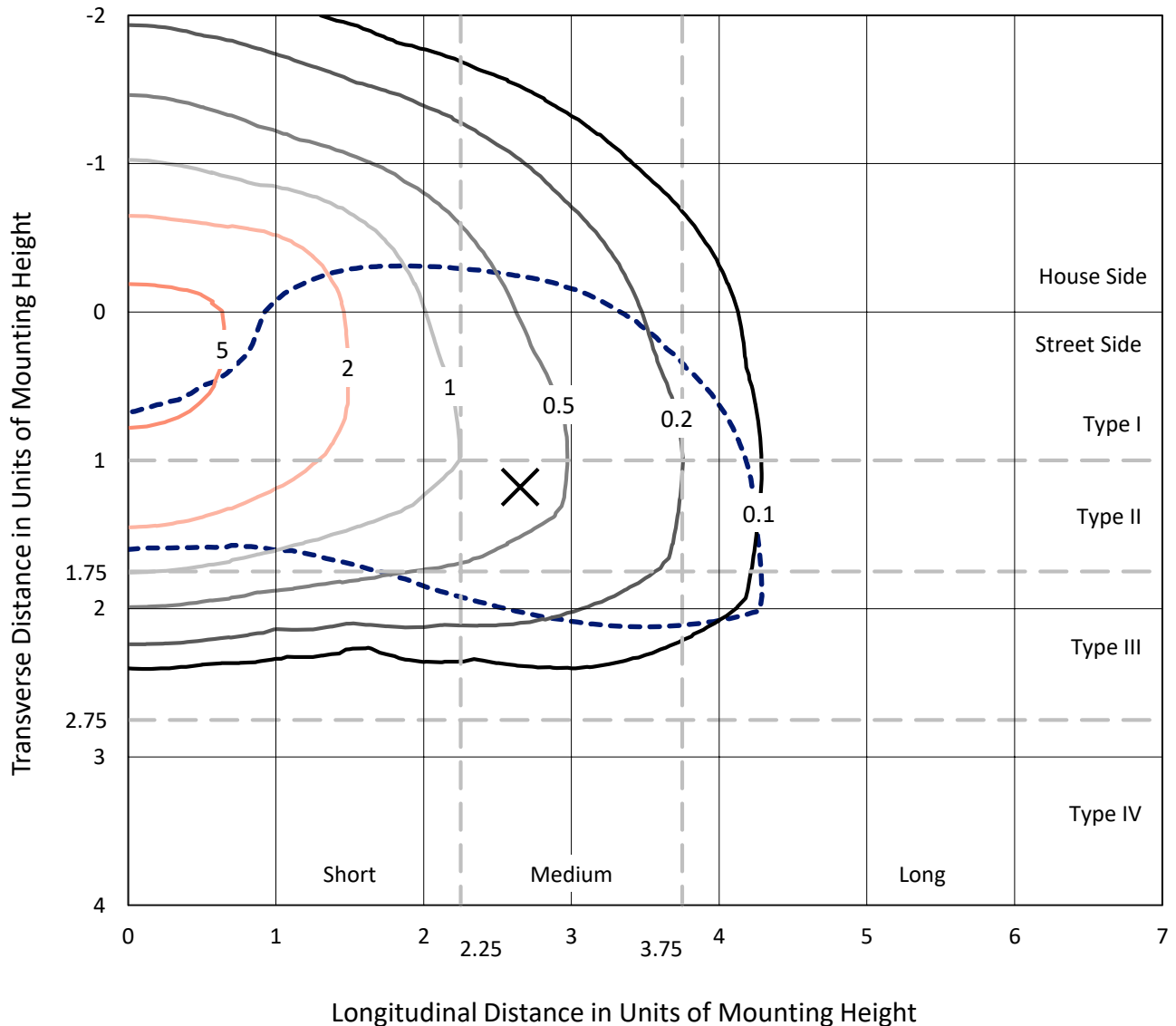
Input Watts (W): 146.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

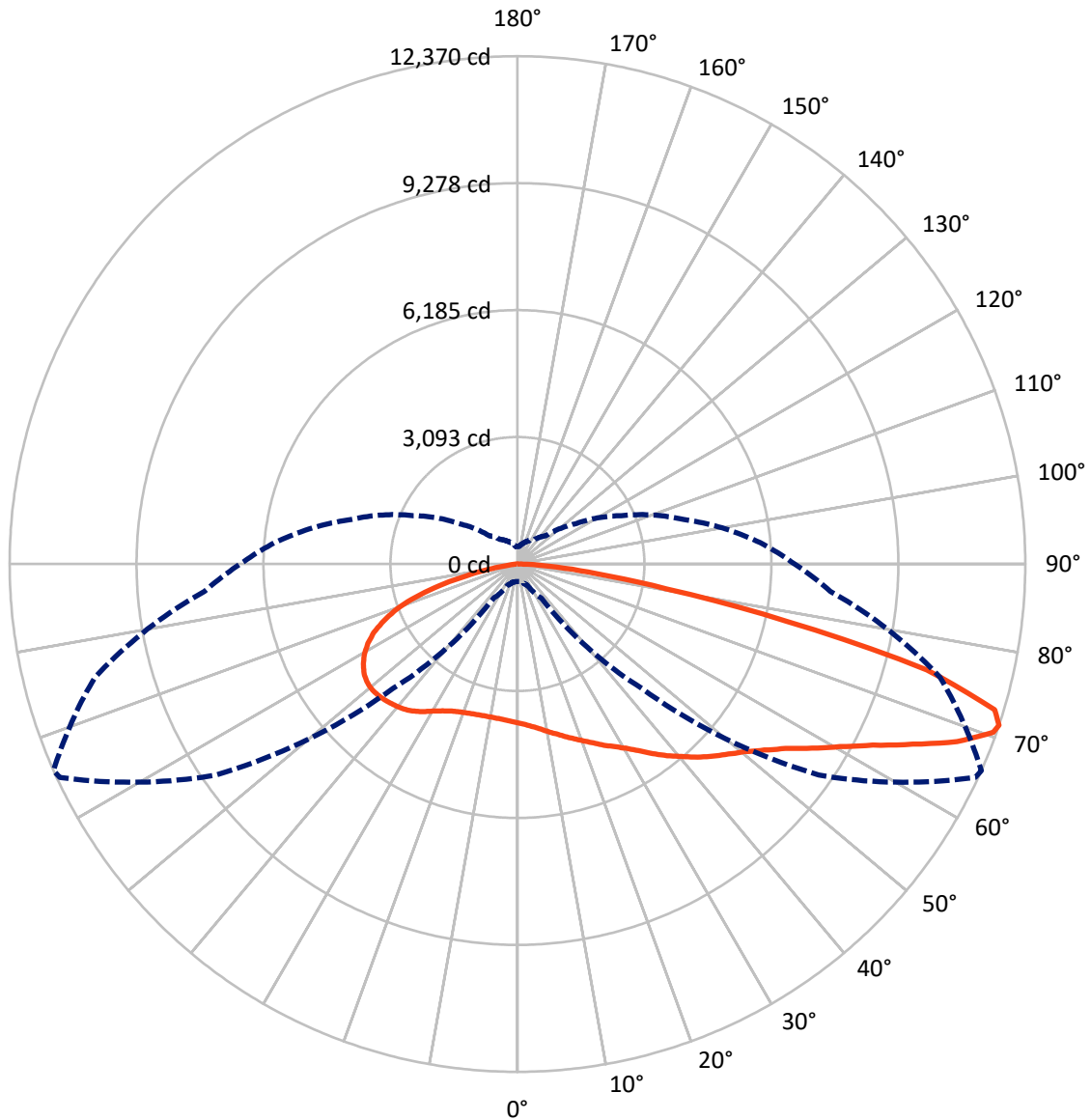
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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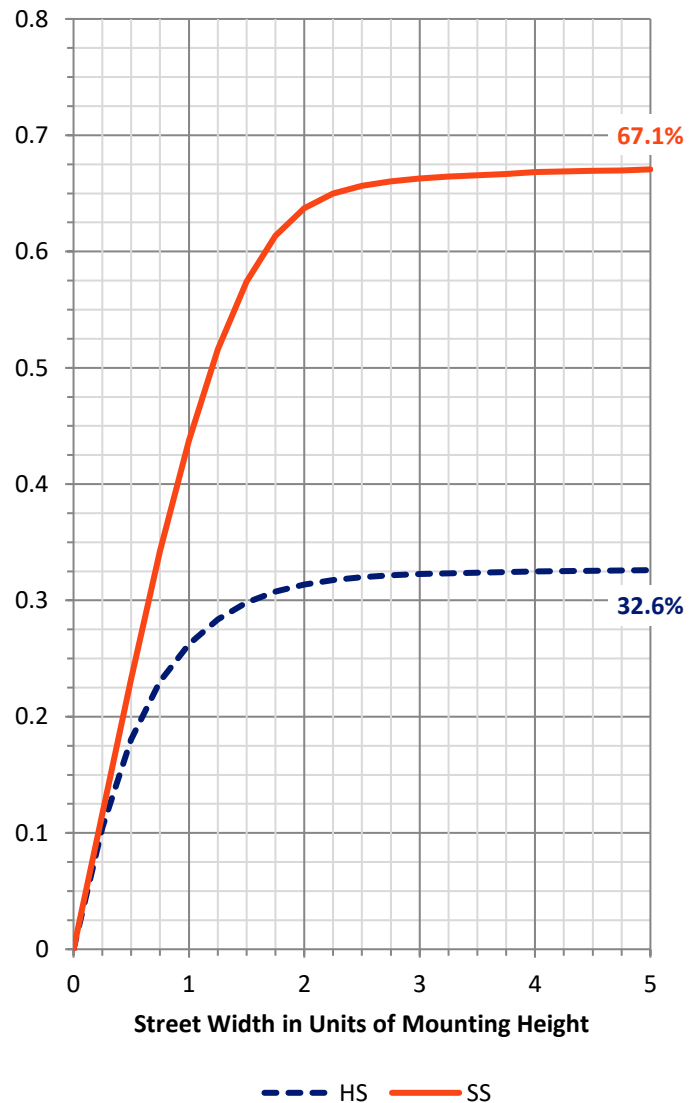
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7411.4	0.0	7411.4
	% Fixture	32.8	0.0	32.8
Street Side	Lumens	15176.7	0.0	15176.7
	% Fixture	67.2	0.0	67.2
Total	Lumens	22588.0	0.0	22588.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.5	1.6
10°-20°	1123.5	5.0
20°-30°	1937.4	8.6
30°-40°	2909.8	12.9
40°-50°	3925.0	17.4
50°-60°	4806.0	21.3
60°-70°	4537.1	20.1
70°-80°	2625.8	11.6
80°-90°	351.9	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°	22588.0	100.0
0°-180°	22588.0	100.0



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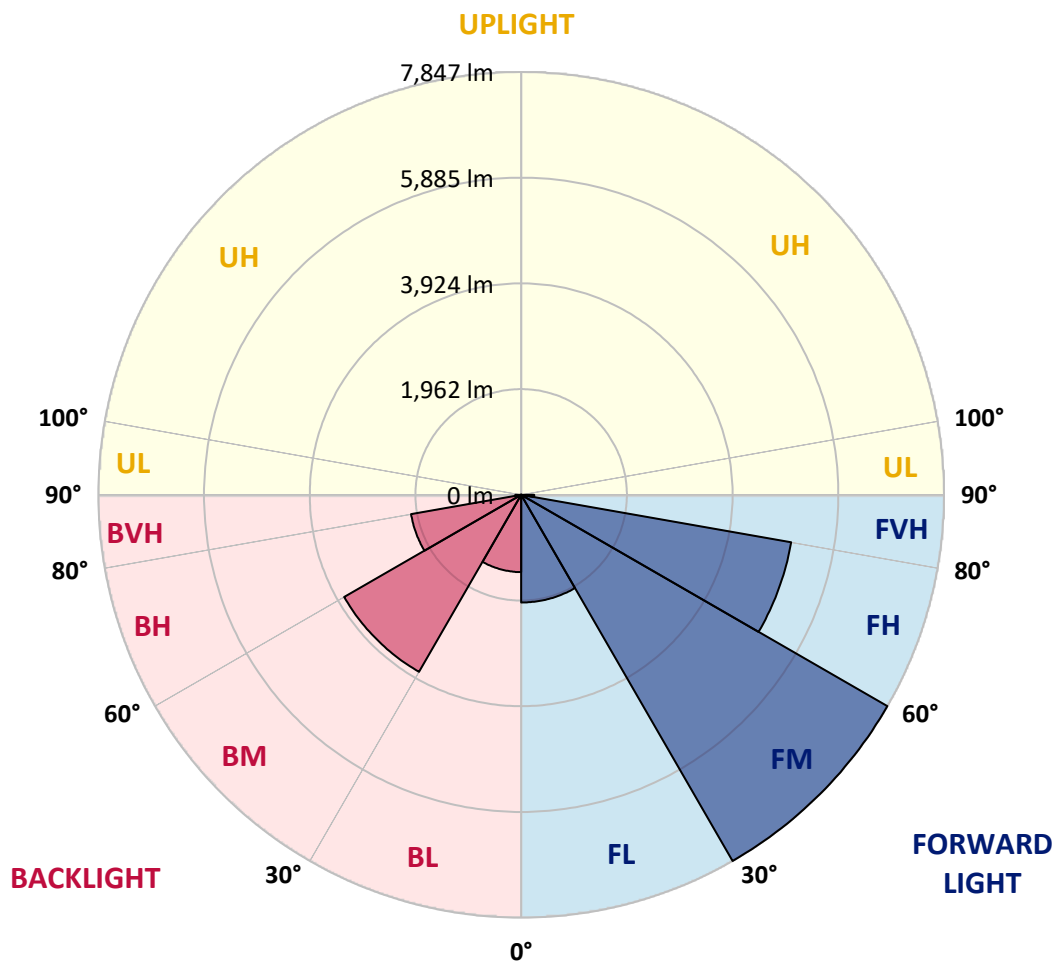
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1998.6	8.8			
FM (30°-60°)	7847.1	34.7			
FH (60°-80°)	5088.0	22.5			G3/7500
FVH (80°-90°)	243.0	1.1			G3/500
BL (0°-30°)	1433.8	6.3	B3/2500		
BM (30°-60°)	3793.7	16.8	B3/5000		
BH (60°-80°)	2074.9	9.2	B3/2500		G3/2500
BVH (80°-90°)	108.9	0.5			G2/225
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°	3873.2	3873.2	3873.2	3873.2	3873.2	3873.2	3873.2	3873.2	3873.2	3873.2	3873.2
2.5°	3972.5	3970.6	3971.9	3967.3	3955.6	3951.1	3939.4	3919.9	3919.3	3902.4	3891.4
5°	4075.7	4073.8	4067.9	4060.8	4048.5	4042.6	4020.6	3984.2	3981.0	3956.9	3927.7
7.5°	4171.1	4170.5	4169.2	4155.6	4142.6	4127.7	4106.2	4068.6	4058.2	4023.8	3979.0
10°	4284.7	4278.9	4274.4	4262.7	4249.7	4230.9	4199.1	4156.2	4155.6	4108.8	4045.2
12.5°	4396.4	4399.0	4389.9	4378.9	4353.5	4336.7	4301.0	4261.4	4247.1	4200.4	4125.1
15°	4520.4	4521.7	4506.1	4497.0	4480.8	4456.1	4407.4	4362.0	4360.0	4300.3	4215.9
17.5°	4669.0	4675.5	4656.7	4644.3	4617.1	4580.1	4528.8	4479.5	4473.6	4413.3	4322.4
20°	4833.9	4826.1	4822.2	4797.5	4772.2	4723.5	4667.7	4611.2	4599.6	4534.0	4439.9
22.5°	5006.5	5004.6	5004.0	4970.2	4942.3	4873.5	4802.1	4745.0	4732.0	4666.4	4563.9
25°	5227.9	5234.4	5202.6	5176.0	5130.5	5041.6	4962.4	4880.6	4888.4	4815.1	4717.0
27.5°	5506.4	5506.4	5491.4	5449.2	5375.9	5251.3	5145.5	5039.7	5035.8	4976.0	4874.1
30°	5869.2	5866.6	5855.6	5815.3	5688.1	5543.4	5352.5	5227.2	5207.1	5127.9	5076.7
32.5°	6060.0	6069.8	6088.6	6080.2	6021.7	5881.5	5632.3	5424.6	5416.1	5327.2	5273.3
35°	6182.1	6191.8	6217.1	6242.4	6209.3	6119.8	5899.1	5694.6	5670.6	5538.8	5491.4
37.5°	6335.3	6337.9	6352.8	6387.8	6385.2	6317.1	6148.3	5947.7	5925.0	5773.8	5735.5
40°	6519.6	6520.3	6531.9	6557.3	6556.6	6494.3	6389.1	6200.3	6160.7	6035.4	5977.6
42.5°	6733.2	6715.6	6731.9	6754.6	6754.6	6707.2	6630.0	6446.3	6432.0	6284.0	6204.8
45°	6929.2	6922.1	6932.4	6944.8	6948.7	6925.3	6857.1	6697.5	6675.4	6519.0	6408.6
47.5°	7128.5	7121.3	7110.3	7153.1	7171.3	7199.9	7130.4	6942.8	6918.8	6710.4	6580.0
50°	7277.8	7273.2	7273.9	7319.3	7394.6	7470.5	7454.3	7227.8	7181.0	6908.4	6733.2
52.5°	7271.9	7266.1	7281.7	7390.7	7566.0	7756.2	7811.3	7577.0	7529.6	7155.1	6876.0
55°	6940.9	6957.8	7038.2	7305.7	7649.1	8065.8	8251.4	8015.1	7927.5	7445.2	7051.2
57.5°	6366.4	6334.0	6517.0	6911.7	7527.0	8273.5	8696.7	8515.0	8464.3	7785.4	7218.0
60°	5357.7	5352.5	5680.3	6212.6	7136.3	8342.3	9168.6	9117.3	9027.8	8187.8	7368.6
62.5°	3975.8	3994.6	4244.5	5092.2	6413.8	8132.0	9640.5	9809.3	9716.5	8663.0	7513.4
65°	2347.8	2353.7	2623.7	3426.0	5194.8	7562.7	9963.8	10668.7	10581.1	9273.8	7655.5
67.5°	984.7	1043.1	1222.3	1756.5	3553.9	6513.1	9968.3	11535.9	11546.3	9973.5	7778.2
70°	482.9	490.1	563.4	717.3	1480.6	5074.7	9368.5	12233.7	12290.2	10577.8	7754.9
71°	428.4	429.1	460.2	569.3	1017.1	4291.2	8956.4	12300.5	12370.0	10655.7	7650.4
72.5°	380.4	379.7	398.6	444.0	658.8	3006.7	7942.4	12057.1	12154.5	10424.0	7338.8
75°	305.7	307.7	321.3	346.0	458.3	1365.7	5779.6	10168.2	10301.3	8826.5	6115.9
77.5°	233.0	238.2	255.7	274.6	342.7	826.3	3661.6	6928.5	6707.2	5610.2	4380.2
80°	174.6	176.6	188.2	209.0	251.9	518.0	2056.4	3587.6	3681.7	2959.9	2372.5
82.5°	121.4	125.3	134.4	144.8	162.9	327.8	1246.9	1942.1	1927.8	1269.0	926.3
85°	72.1	75.3	78.5	86.3	92.8	167.5	690.0	977.6	952.9	327.8	194.7
87.5°	26.6	27.9	31.2	29.2	33.8	55.2	236.9	244.7	238.9	56.5	41.5
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°	3873.2	3873.2	3873.2	3873.2	3873.2	3873.2	3873.2	3873.2	3873.2	3873.2	3873.2
2.5°	3878.4	3873.9	3856.3	3836.2	3818.7	3805.7	3790.1	3778.4	3774.5	3762.9	3765.5
5°	3903.7	3889.4	3846.6	3805.7	3763.5	3727.8	3696.0	3671.3	3653.2	3639.5	3649.9
7.5°	3944.6	3918.0	3855.0	3784.9	3716.8	3659.0	3608.4	3560.3	3527.2	3516.2	3509.7
10°	4001.7	3965.4	3871.9	3772.6	3677.2	3590.8	3506.5	3448.0	3392.2	3369.5	3356.5
12.5°	4073.8	4021.2	3897.9	3771.3	3642.8	3518.8	3392.9	3304.6	3229.3	3204.6	3189.1
15°	4160.1	4093.9	3941.4	3778.4	3605.8	3424.7	3270.2	3150.1	3058.6	3024.2	3015.1
17.5°	4252.9	4176.3	3993.9	3791.4	3568.1	3335.8	3146.9	3001.5	2900.9	2861.3	2860.0
20°	4367.2	4280.8	4060.8	3817.4	3530.5	3248.1	3024.2	2865.8	2762.6	2712.0	2702.9
22.5°	4498.9	4400.3	4151.7	3847.2	3499.3	3159.2	2908.0	2726.9	2621.1	2575.6	2565.3
25°	4637.9	4530.8	4260.7	3896.6	3472.1	3085.2	2798.9	2612.0	2502.9	2452.3	2441.9
27.5°	4811.2	4693.0	4389.2	3971.9	3458.4	3015.7	2705.5	2504.2	2393.9	2334.8	2330.9
30°	5005.9	4890.4	4560.6	4060.2	3463.6	2959.9	2625.0	2409.5	2290.0	2232.9	2218.6
32.5°	5211.0	5101.3	4742.4	4181.5	3477.3	2908.6	2543.2	2313.4	2188.8	2127.8	2118.7
35°	5438.2	5334.3	4934.5	4291.2	3483.7	2843.7	2447.1	2217.3	2090.1	2036.9	2026.5
37.5°	5682.3	5562.8	5131.2	4378.2	3466.9	2761.9	2353.0	2131.0	2009.0	1961.6	1955.8
40°	5917.9	5786.8	5289.6	4438.6	3438.3	2681.5	2269.9	2055.7	1948.0	1907.7	1900.6
42.5°	6125.0	5978.3	5410.9	4486.6	3407.2	2609.4	2201.1	2000.5	1905.1	1870.1	1863.6
45°	6316.4	6145.1	5531.0	4529.5	3377.3	2544.5	2149.8	1959.6	1871.4	1840.2	1836.3
47.5°	6469.6	6296.3	5627.7	4558.7	3335.1	2493.2	2103.7	1923.9	1845.4	1821.4	1819.4
50°	6622.2	6428.7	5710.2	4563.2	3288.4	2442.6	2063.5	1891.5	1822.0	1805.8	1805.8
52.5°	6756.5	6545.6	5767.9	4532.1	3222.8	2385.5	2014.2	1855.1	1794.8	1790.2	1791.5
55°	6888.3	6654.0	5782.9	4458.7	3146.9	2328.3	1959.6	1805.8	1752.6	1755.8	1758.4
57.5°	6998.0	6702.7	5741.3	4333.4	3055.3	2247.9	1885.7	1727.9	1666.3	1668.2	1674.0
60°	7060.3	6694.9	5638.1	4178.3	2924.2	2141.4	1776.0	1603.3	1515.0	1498.8	1507.2
62.5°	7093.4	6643.6	5463.5	3973.8	2770.4	2000.5	1600.7	1400.1	1293.0	1302.1	1295.6
65°	7091.5	6552.1	5231.1	3725.2	2561.4	1769.5	1368.3	1158.7	1086.6	1063.2	1061.3
67.5°	7046.0	6379.4	4898.8	3380.5	2279.7	1473.5	1090.5	924.3	851.0	848.4	839.9
70°	6872.1	6102.2	4450.3	2990.4	1874.6	1101.5	832.8	696.5	630.9	550.4	547.2
71°	6751.3	5937.4	4188.7	2791.2	1692.2	973.7	733.5	623.1	521.2	424.5	424.5
72.5°	6395.6	5631.0	3827.8	2478.9	1379.3	796.5	605.6	500.5	355.1	333.0	334.3
75°	5553.1	4814.4	3131.9	1861.6	932.8	546.5	422.6	327.8	243.4	264.8	272.0
77.5°	4175.7	3675.2	2327.7	1171.6	531.0	348.6	292.1	215.5	193.4	218.1	217.5
80°	2393.3	2282.3	1435.2	626.4	231.7	219.4	206.4	157.1	148.0	165.5	165.5
82.5°	1177.5	1265.1	784.1	233.7	106.5	127.9	132.4	109.7	103.2	111.6	114.2
85°	386.2	557.6	288.9	83.7	61.0	63.6	58.4	56.5	55.8	57.8	57.1
87.5°	55.8	100.6	41.5	32.5	25.3	22.1	18.2	16.9	14.3	12.3	11.7
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)