

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: P395124

Luminaire Tested: **LAS100S-T4**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-740-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LAS100S-T4
Description: AREA SITE LARGE HOUSING, TYPE IV
Light Source: (288) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33342 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 0.88' x L: 1.29' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B4 - U0 - G4

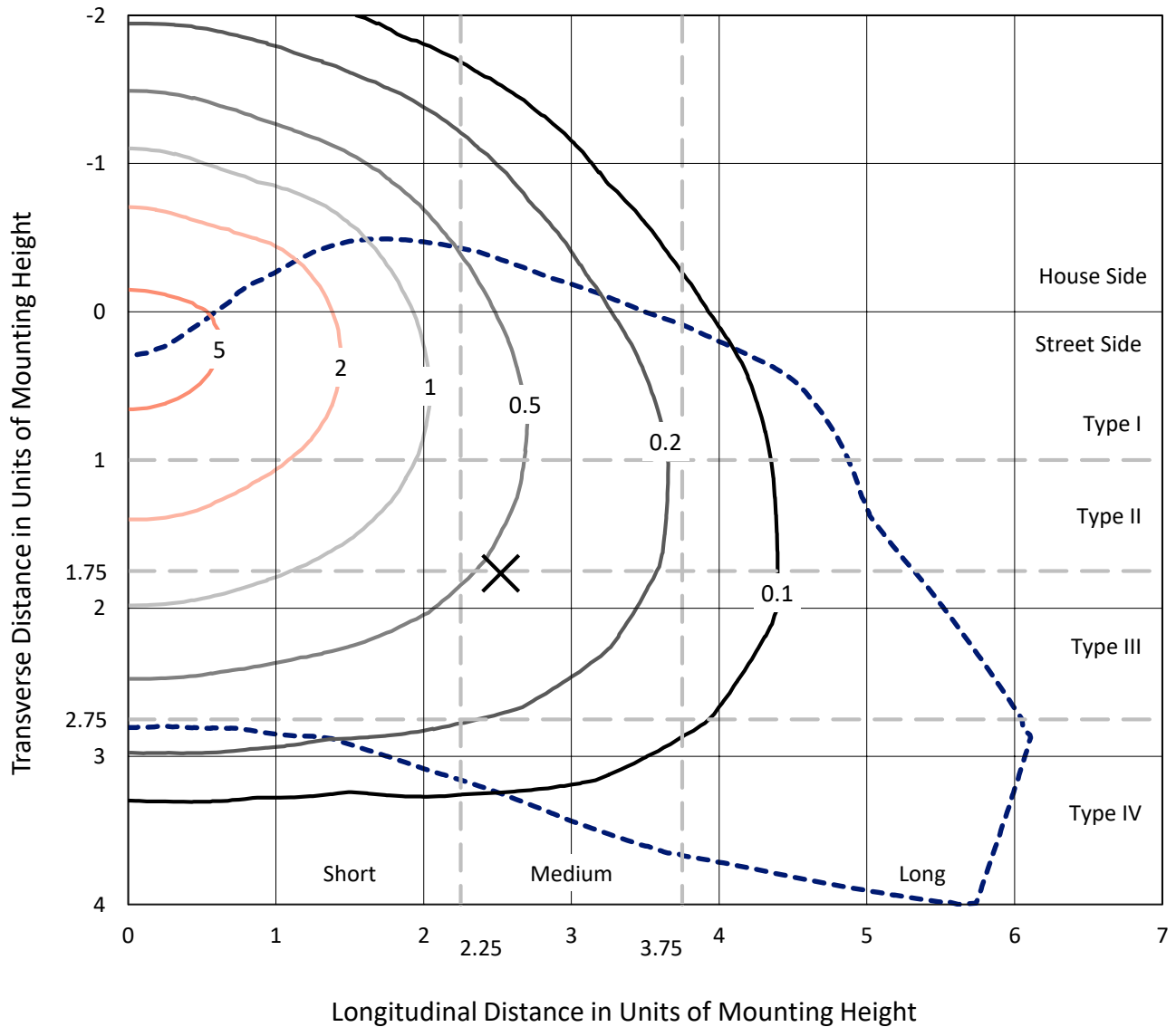
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P395124
 CATALOG NUMBER: LAS100S-T4

Iso-Footcandle Lines of Horizontal Illumination

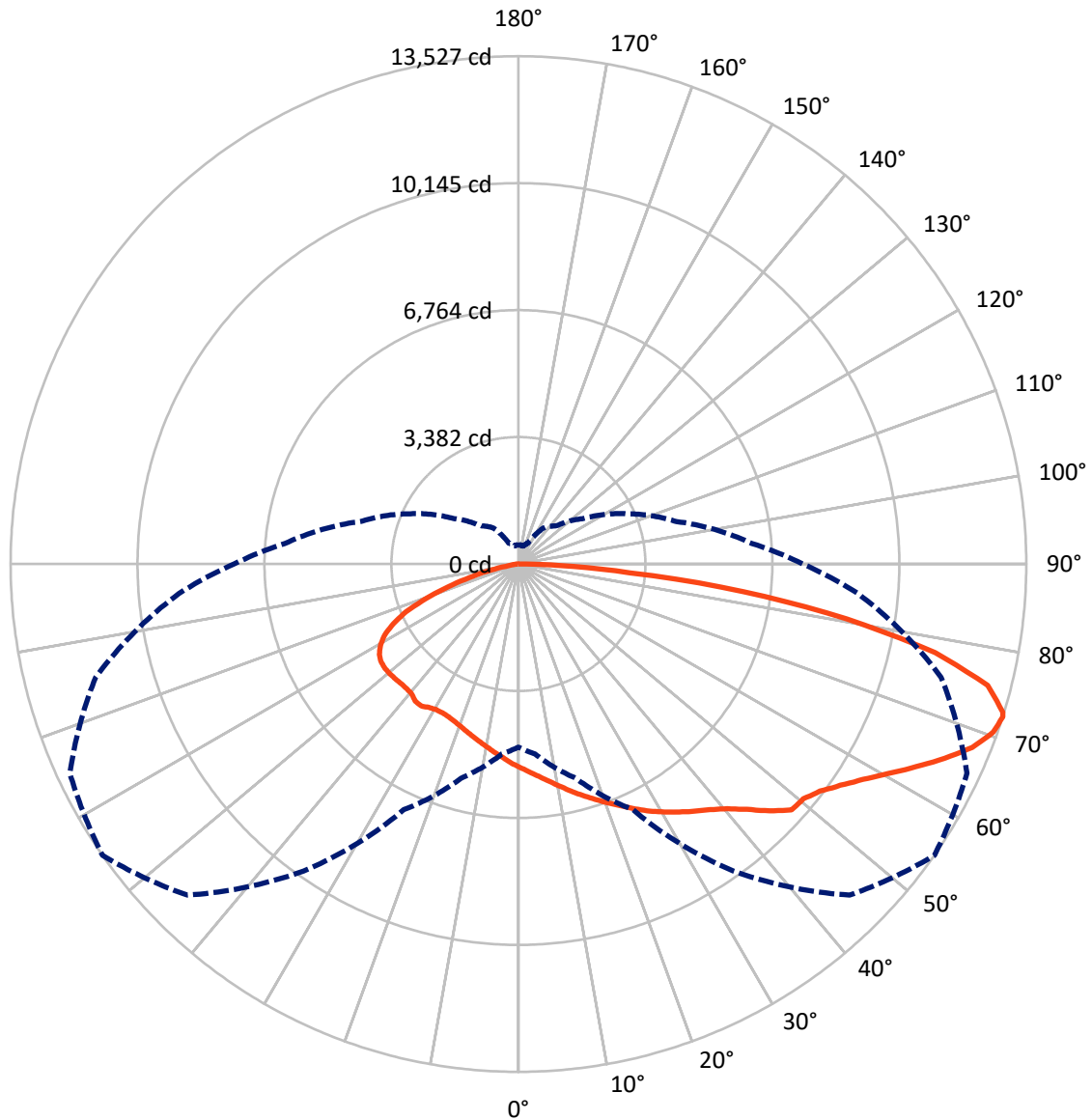
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P395124
CATALOG NUMBER: LAS100S-T4

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P395124
 CATALOG NUMBER: LAS100S-T4

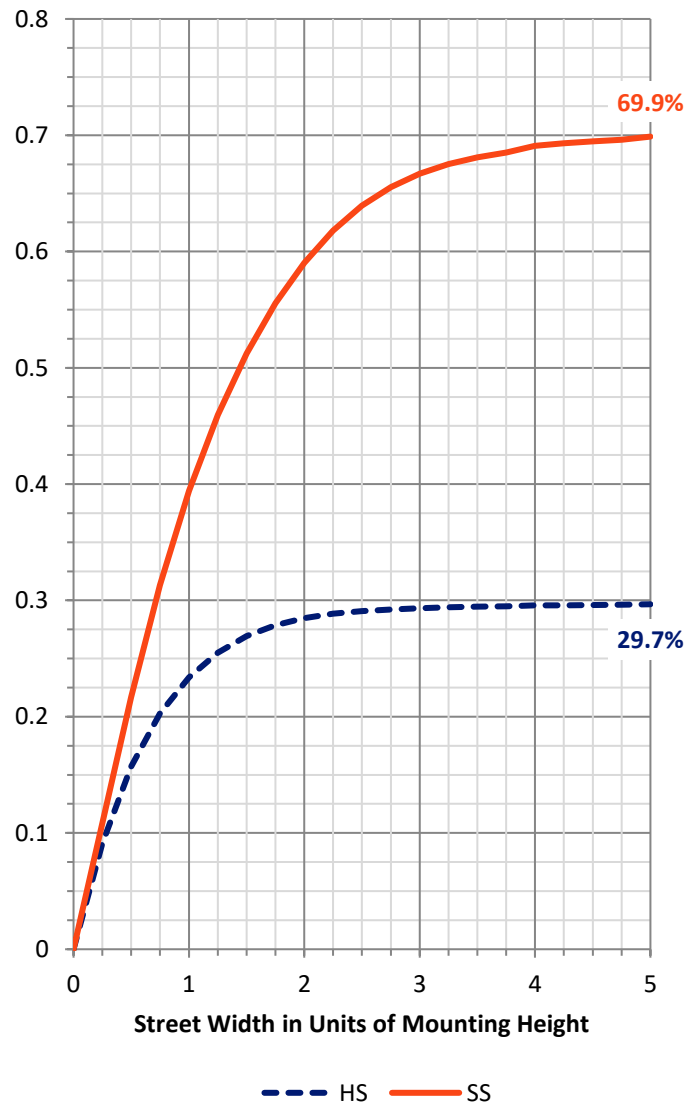
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9953.6	0.0	9953.6
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	23388.4	0.0	23388.4
	% Fixture	70.1	0.0	70.1
Total	Lumens	33342.0	0.0	33342.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.9	1.6
10°-20°	1576.7	4.7
20°-30°	2695.9	8.1
30°-40°	3907.4	11.7
40°-50°	5242.0	15.7
50°-60°	6425.1	19.3
60°-70°	7183.5	21.5
70°-80°	4922.7	14.8
80°-90°	869.8	2.6
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°	33342.0	100.0
0°-180°	33342.0	100.0

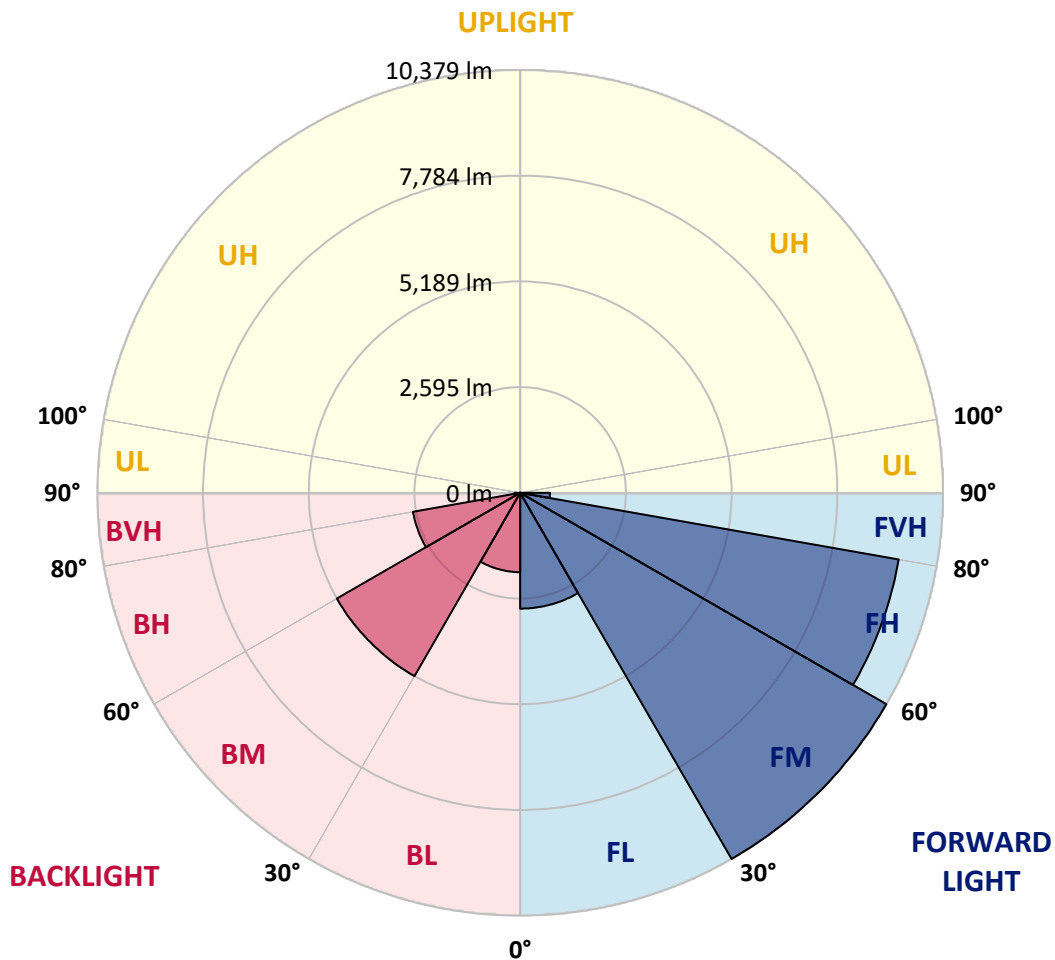


REPORT NUMBER: P395124
 CATALOG NUMBER: LAS100S-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2842.9	8.5			
FM	(30°-60°)	10378.8	31.1			
FH	(60°-80°)	9434.1	28.3			G4/12000
FVH	(80°-90°)	732.6	2.2			G4/750
BL	(0°-30°)	1948.6	5.8	B3/2500		
BM	(30°-60°)	5195.7	15.6	B4/8500		
BH	(60°-80°)	2672.1	8.0	B4/5000		G4/5000
BVH	(80°-90°)	137.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type IV Medium





REPORT NUMBER: P395124
 CATALOG NUMBER: LAS100S-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0
2.5°	5624.0	5602.5	5603.5	5595.7	5574.2	5554.7	5541.0	5504.9	5477.6	5447.3	5426.8
5°	5847.5	5826.0	5809.4	5791.9	5766.5	5728.4	5680.6	5621.0	5556.6	5490.3	5450.2
7.5°	6065.1	6045.6	6026.1	5999.8	5963.6	5907.0	5836.8	5750.9	5653.3	5550.8	5493.2
10°	6270.1	6260.4	6243.8	6207.6	6162.8	6099.3	6015.4	5907.0	5775.3	5637.6	5554.7
12.5°	6461.4	6467.3	6453.6	6423.4	6373.6	6295.5	6202.8	6072.0	5918.7	5731.3	5632.8
15°	6664.4	6646.9	6641.0	6617.6	6580.5	6502.4	6396.0	6243.8	6075.9	5858.2	5731.3
17.5°	6850.9	6830.4	6824.5	6801.1	6749.4	6689.8	6588.3	6428.2	6239.9	5988.0	5853.3
20°	7010.9	7007.0	6993.4	6982.6	6936.8	6871.4	6786.4	6638.1	6429.2	6160.8	5991.0
22.5°	7187.6	7166.1	7172.0	7141.7	7112.4	7074.4	7001.2	6860.6	6632.2	6332.6	6149.1
25°	7331.1	7319.4	7315.5	7301.8	7292.0	7280.3	7224.7	7098.8	6847.9	6534.6	6324.8
27.5°	7439.4	7431.6	7458.0	7456.0	7492.1	7493.1	7455.0	7320.3	7085.1	6733.7	6509.2
30°	7548.7	7546.8	7593.6	7623.9	7662.9	7697.1	7664.9	7550.7	7302.8	6954.3	6718.1
32.5°	7679.5	7673.7	7727.4	7776.2	7834.7	7893.3	7874.7	7771.3	7542.9	7179.8	6927.0
35°	7811.3	7815.2	7873.8	7925.5	8010.4	8086.5	8085.6	8010.4	7793.7	7433.6	7162.2
37.5°	7964.5	7972.3	8012.4	8084.6	8187.1	8265.2	8299.3	8242.7	8051.4	7714.7	7449.2
40°	8335.4	8314.9	8408.6	8439.9	8490.6	8523.8	8565.8	8524.8	8366.7	8028.9	7782.0
42.5°	8712.2	8753.2	8865.4	8867.4	8914.2	8929.8	8931.8	8869.3	8708.3	8392.0	8093.4
45°	8676.1	8719.0	8887.9	8998.2	9228.5	9367.1	9376.9	9289.0	9114.3	8640.9	8218.3
47.5°	8680.0	8729.7	8873.2	8918.1	9210.0	9575.0	9792.7	9757.5	9476.4	8807.8	8384.2
50°	8799.0	8858.6	8995.2	8939.6	9141.6	9499.8	9830.7	9927.4	9593.5	9006.9	8596.0
52.5°	8995.2	9046.0	9196.3	9109.4	9251.0	9625.8	10053.3	10182.1	9882.5	9265.6	8812.7
55°	9207.0	9271.5	9405.2	9370.0	9513.5	9935.2	10406.6	10555.9	10239.7	9519.4	8999.1
57.5°	9460.8	9491.1	9668.7	9692.1	9868.8	10324.6	10823.4	10956.1	10583.3	9728.2	9141.6
60°	9610.1	9641.4	9868.8	10006.4	10318.8	10835.1	11329.0	11433.4	10939.5	9892.2	9230.5
62.5°	9815.1	9842.4	10008.4	10268.0	10809.7	11407.0	11889.2	11925.3	11290.9	10020.1	9227.5
65°	9887.3	9888.3	10067.9	10486.6	11207.0	12002.4	12477.8	12401.6	11614.0	10024.0	9080.1
67.5°	8934.7	9044.0	9371.0	10322.7	11465.6	12519.7	13035.1	12839.9	11815.0	9871.7	8740.5
70°	7189.5	7154.4	7647.3	9064.5	11104.5	12736.4	13417.7	13115.1	11814.1	9518.4	8158.8
72°	4878.3	5080.3	5907.0	7219.8	9980.1	12470.9	13527.0	13183.4	11657.9	9084.1	7571.2
72.5°	4397.1	4551.3	5209.2	6721.0	9695.1	12328.4	13491.9	13170.8	11591.5	8919.1	7385.7
75°	1445.5	1635.9	2329.8	3866.1	7204.2	10829.2	12907.2	12889.7	10920.0	8001.6	6359.9
77.5°	570.0	579.8	647.1	1480.7	4308.3	8555.0	11346.5	11717.4	9011.8	6596.1	5021.8
80°	413.8	404.1	417.7	537.8	1708.1	5643.5	8871.3	9197.3	5363.4	4436.1	3511.8
82.5°	285.0	281.1	287.0	341.6	709.6	3098.0	6044.6	5314.6	1920.9	1982.3	2001.9
85°	159.1	162.0	160.1	193.3	375.8	1361.6	2979.9	2115.1	297.7	357.2	830.6
87.5°	59.5	60.5	62.5	70.3	130.8	378.7	1076.6	344.5	50.8	50.8	131.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P395124
 CATALOG NUMBER: LAS100S-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0	5419.0
2.5°	5413.1	5376.1	5334.1	5306.8	5269.7	5251.1	5226.7	5226.7	5216.0	5207.2
5°	5415.1	5332.1	5249.2	5176.0	5118.4	5062.7	5016.9	4983.7	4978.8	4968.1
7.5°	5431.7	5307.7	5177.9	5064.7	4966.1	4877.3	4804.1	4763.1	4736.7	4718.2
10°	5467.8	5298.0	5120.3	4952.5	4809.0	4694.8	4601.1	4552.3	4523.0	4516.2
12.5°	5525.4	5297.0	5065.7	4853.9	4670.4	4533.7	4436.1	4371.7	4349.3	4332.7
15°	5593.7	5310.7	5023.7	4760.2	4543.5	4382.4	4281.9	4215.5	4182.4	4175.5
17.5°	5687.4	5344.8	4990.5	4672.3	4423.4	4244.8	4138.4	4071.1	4040.8	4035.9
20°	5803.6	5391.7	4969.0	4594.2	4319.0	4129.6	4004.7	3933.5	3908.1	3908.1
22.5°	5937.3	5457.1	4960.3	4525.9	4221.4	4019.4	3889.5	3824.1	3808.5	3802.7
25°	6081.7	5548.8	4974.9	4477.1	4132.6	3921.8	3792.9	3724.6	3697.3	3693.4
27.5°	6249.6	5658.1	5013.0	4449.8	4067.2	3829.0	3703.1	3621.1	3596.7	3585.0
30°	6435.1	5789.9	5080.3	4455.6	4032.0	3760.7	3600.6	3528.4	3492.3	3478.6
32.5°	6643.0	5953.9	5190.6	4503.5	4028.1	3708.0	3518.6	3420.1	3381.0	3378.1
35°	6872.3	6159.8	5356.5	4585.5	4026.2	3641.6	3423.0	3320.5	3297.1	3298.1
37.5°	7170.0	6428.2	5506.8	4569.8	3899.3	3511.8	3314.6	3247.3	3226.8	3223.9
40°	7475.5	6586.4	5464.9	4474.2	3793.9	3404.4	3233.6	3180.9	3171.2	3165.3
42.5°	7651.2	6594.2	5487.3	4456.6	3732.4	3343.0	3173.1	3123.3	3107.7	3102.8
45°	7743.9	6712.3	5588.8	4463.5	3692.4	3294.2	3114.6	3061.9	3034.5	3028.7
47.5°	7926.5	6864.5	5694.2	4483.0	3668.0	3228.8	3051.1	2991.6	2963.3	2964.2
50°	8118.7	7006.1	5778.2	4503.5	3639.7	3171.2	2983.8	2914.5	2894.0	2886.2
52.5°	8288.6	7116.3	5817.2	4509.3	3604.5	3111.6	2902.8	2824.7	2799.3	2793.4
55°	8416.4	7169.1	5797.7	4493.7	3554.8	3033.5	2808.1	2714.4	2683.1	2677.3
57.5°	8492.6	7142.7	5694.2	4416.6	3473.7	2936.9	2685.1	2565.0	2524.1	2518.2
60°	8481.8	6993.4	5477.6	4262.4	3343.9	2780.8	2481.1	2343.5	2289.8	2281.0
62.5°	8356.9	6713.2	5186.7	4041.8	3137.0	2520.1	2216.6	2049.7	1965.8	1939.4
65°	8090.4	6299.4	4821.7	3680.7	2775.9	2174.6	1867.2	1669.0	1443.6	1390.9
67.5°	7635.6	5731.3	4321.9	3254.1	2331.8	1821.3	1533.4	1053.2	823.8	772.1
70°	6912.4	4959.3	3706.0	2631.4	1807.6	1447.5	1038.5	583.7	569.0	571.0
72°	6243.8	4362.9	3167.3	2111.2	1441.6	1176.1	622.7	493.9	510.5	503.6
72.5°	6046.6	4195.0	3053.1	1969.7	1351.8	1113.7	554.4	478.3	488.0	495.8
75°	5093.0	3276.6	2197.1	1349.9	1002.4	744.7	411.9	407.0	419.7	422.6
77.5°	3858.3	2335.7	1410.4	856.0	667.6	424.6	329.9	329.9	342.6	344.5
80°	2536.7	1440.6	587.6	338.7	419.7	280.1	244.0	249.9	264.5	270.4
82.5°	1604.6	776.9	175.7	177.6	213.8	183.5	165.0	171.8	184.5	185.4
85°	781.8	159.1	94.7	96.6	98.6	99.6	85.9	91.7	94.7	91.7
87.5°	192.3	40.0	36.1	39.0	31.2	26.4	26.4	22.4	15.6	16.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)