

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: P395115

Luminaire Tested: **LAS100S-T3-Switch-1**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395115
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-1
Description: AREA SITE LARGE HOUSING, TYPE III, WATTAGE SWITCH ON POSTION 1
Light Source: (288) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31166 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 0.88' x L: 1.29' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B4 - U0 - G4

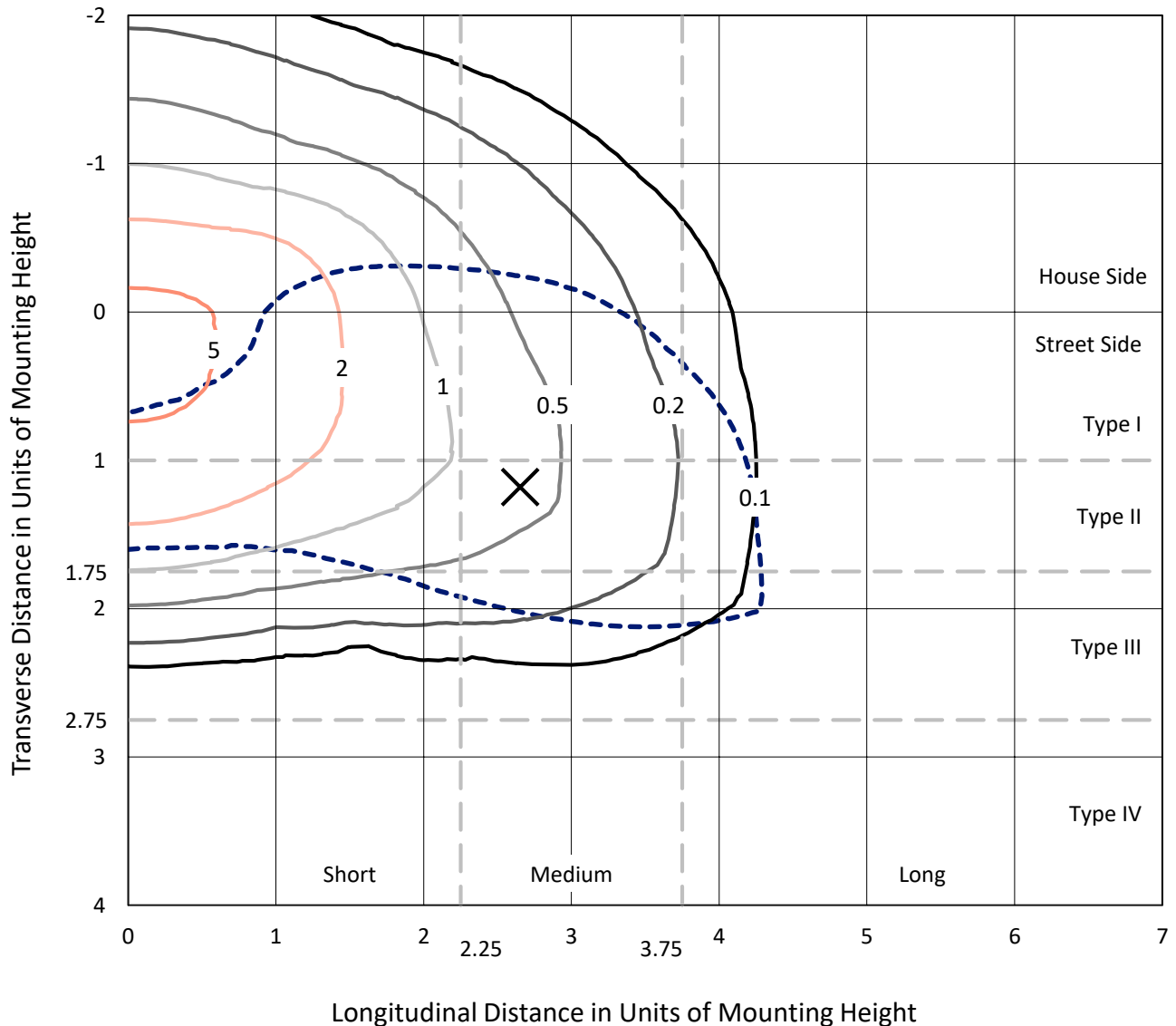
Input Watts (W): 222.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

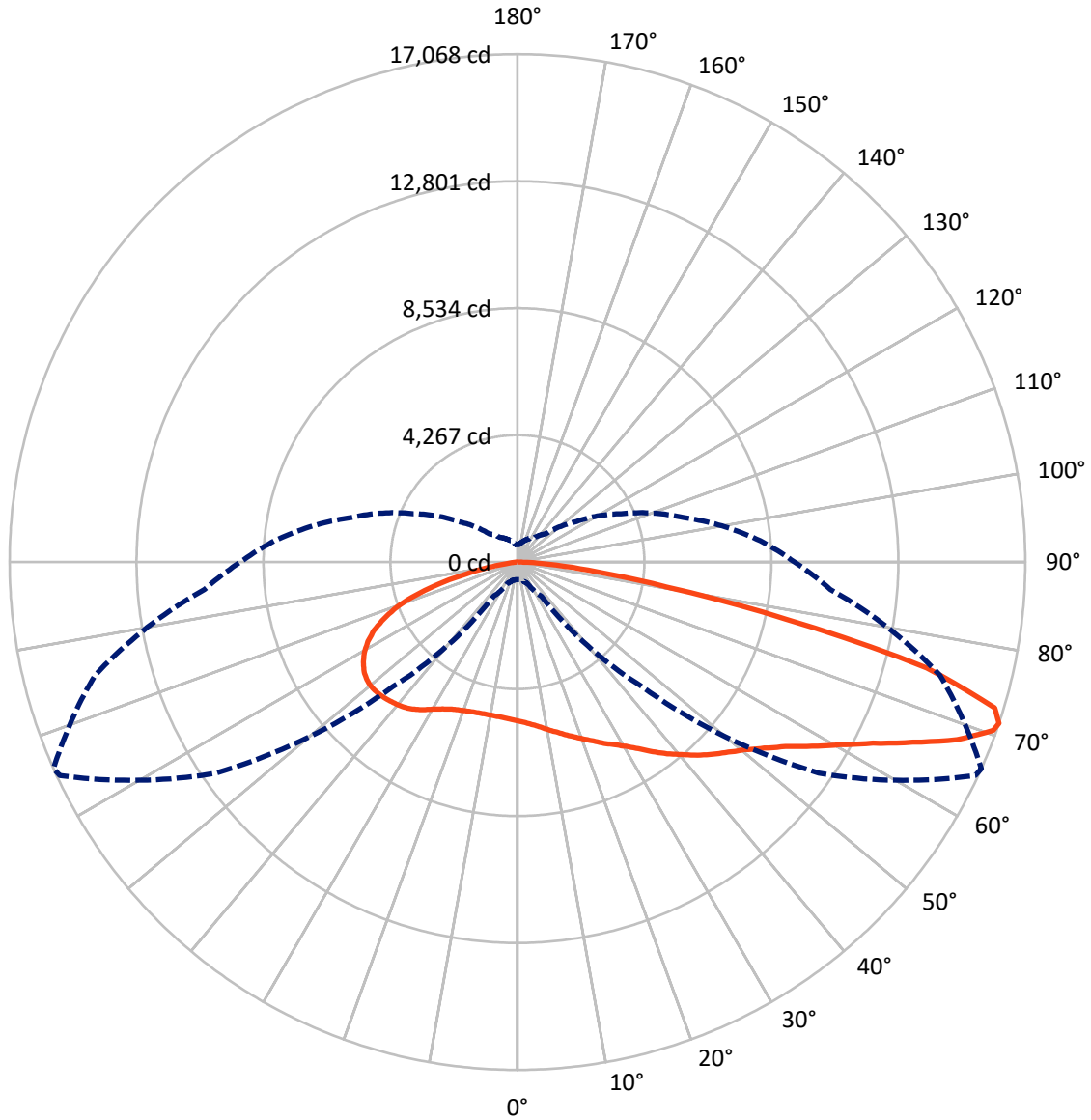
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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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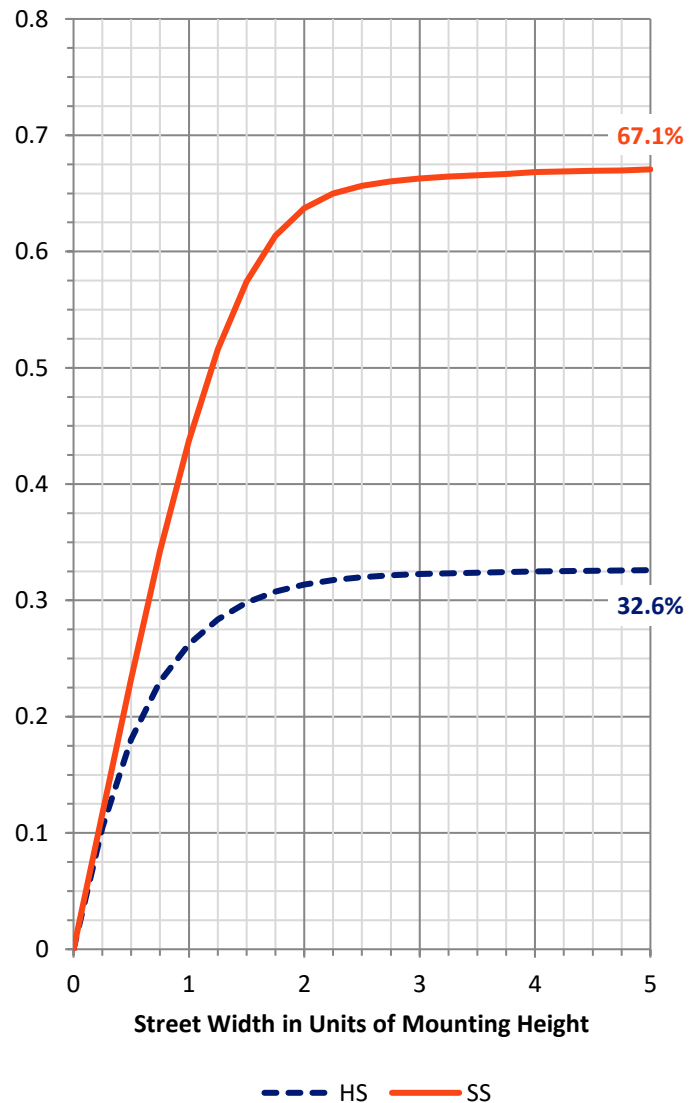
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10225.9	0.0	10225.9
	% Fixture	32.8	0.0	32.8
Street Side	Lumens	20940.1	0.0	20940.1
	% Fixture	67.2	0.0	67.2
Total	Lumens	31166.0	0.0	31166.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.5	1.6
10°-20°	1550.2	5.0
20°-30°	2673.1	8.6
30°-40°	4014.9	12.9
40°-50°	5415.5	17.4
50°-60°	6631.1	21.3
60°-70°	6260.1	20.1
70°-80°	3623.0	11.6
80°-90°	485.5	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°	31166.0	100.0
0°-180°	31166.0	100.0



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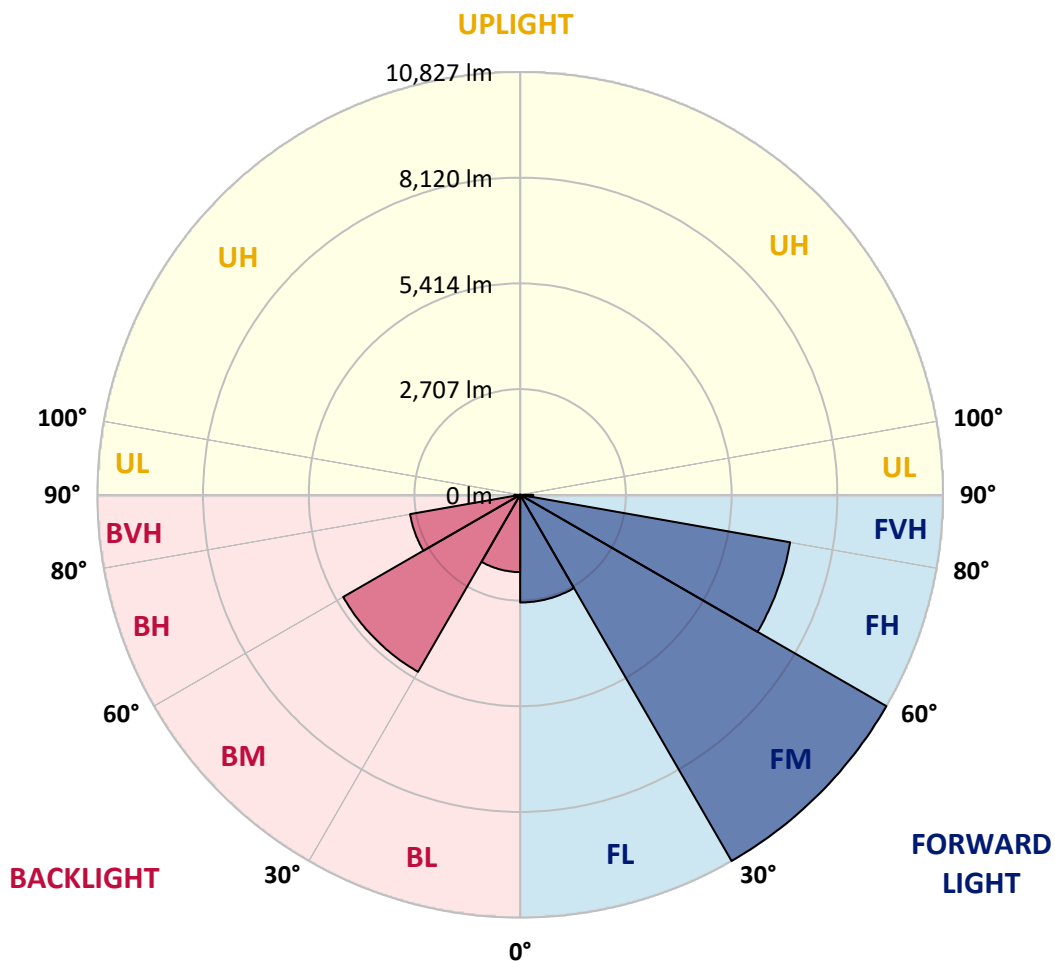
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2757.6	8.8			
FM	(30°-60°)	10827.1	34.7			
FH	(60°-80°)	7020.2	22.5			G3/7500
FVH	(80°-90°)	335.2	1.1			G3/500
BL	(0°-30°)	1978.2	6.3	B3/2500		
BM	(30°-60°)	5234.4	16.8	B4/8500		
BH	(60°-80°)	2862.9	9.2	B4/5000		G4/5000
BVH	(80°-90°)	150.3	0.5			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5344.1	5344.1	5344.1	5344.1	5344.1	5344.1	5344.1	5344.1	5344.1	5344.1	5344.1
2.5°	5481.1	5478.4	5480.2	5474.0	5457.8	5451.6	5435.4	5408.6	5407.7	5384.4	5369.2
5°	5623.5	5620.8	5612.8	5602.9	5585.9	5577.9	5547.4	5497.2	5492.8	5459.6	5419.3
7.5°	5755.2	5754.3	5752.5	5733.7	5715.8	5695.2	5665.6	5613.7	5599.3	5551.9	5490.1
10°	5911.9	5903.9	5897.6	5881.5	5863.5	5837.6	5793.7	5734.6	5733.7	5669.2	5581.4
12.5°	6066.0	6069.5	6057.0	6041.8	6006.8	5983.6	5934.3	5879.7	5860.0	5795.5	5691.6
15°	6237.0	6238.8	6217.3	6204.8	6182.4	6148.4	6081.2	6018.5	6015.8	5933.4	5817.0
17.5°	6442.1	6451.1	6425.1	6408.1	6370.5	6319.4	6248.7	6180.6	6172.5	6089.2	5963.9
20°	6669.6	6658.9	6653.5	6619.4	6584.5	6517.3	6440.3	6362.4	6346.3	6255.8	6126.0
22.5°	6907.8	6905.1	6904.2	6857.7	6819.2	6724.2	6625.7	6546.9	6529.0	6438.5	6297.0
25°	7213.2	7222.2	7178.3	7141.6	7078.9	6956.2	6846.9	6734.1	6744.8	6643.6	6508.4
27.5°	7597.4	7597.4	7576.8	7518.6	7417.4	7245.5	7099.5	6953.5	6948.1	6865.7	6725.1
30°	8098.1	8094.5	8079.3	8023.8	7848.2	7648.5	7385.2	7212.3	7184.6	7075.3	7004.6
32.5°	8361.4	8374.8	8400.8	8389.2	8308.6	8115.1	7771.2	7484.6	7473.0	7350.3	7275.9
35°	8529.8	8543.2	8578.1	8613.1	8567.4	8443.8	8139.3	7857.2	7824.0	7642.2	7576.8
37.5°	8741.1	8744.7	8765.3	8813.7	8810.1	8716.1	8483.2	8206.5	8175.1	7966.4	7913.6
40°	8995.5	8996.4	9012.5	9047.4	9046.5	8960.6	8815.5	8554.9	8500.2	8327.4	8247.7
42.5°	9290.1	9266.0	9288.4	9319.7	9319.7	9254.3	9147.7	8894.3	8874.6	8670.4	8561.1
45°	9560.6	9550.8	9565.1	9582.1	9587.5	9555.2	9461.2	9240.9	9210.4	8994.6	8842.3
47.5°	9835.6	9825.7	9810.5	9869.6	9894.7	9934.1	9838.3	9579.4	9546.3	9258.8	9078.8
50°	10041.6	10035.3	10036.2	10098.9	10202.8	10307.6	10285.2	9972.6	9908.1	9532.0	9290.1
52.5°	10033.5	10025.4	10046.9	10197.4	10439.2	10701.6	10777.8	10454.4	10389.1	9872.3	9487.2
55°	9576.7	9600.0	9711.1	10080.1	10553.9	11128.8	11385.0	11059.0	10938.1	10272.6	9729.0
57.5°	8784.1	8739.3	8991.9	9536.4	10385.5	11415.4	11999.4	11748.6	11678.7	10741.9	9959.2
60°	7392.4	7385.2	7837.5	8571.9	9846.3	11510.4	12650.5	12579.7	12456.1	11297.2	10166.9
62.5°	5485.6	5511.6	5856.4	7026.0	8849.5	11220.2	13301.6	13534.4	13406.4	11952.8	10366.7
65°	3239.4	3247.5	3620.1	4727.0	7167.6	10434.7	13747.6	14720.2	14599.3	12795.6	10562.8
67.5°	1358.6	1439.2	1686.4	2423.5	4903.5	8986.5	13753.9	15916.8	15931.1	13761.0	10732.1
70°	666.3	676.2	777.4	989.6	2042.9	7001.9	12926.3	16879.5	16957.5	14594.8	10699.8
71°	591.1	592.0	635.0	785.4	1403.4	5920.9	12357.6	16971.8	17067.6	14702.3	10555.6
72.5°	524.8	523.9	549.9	612.6	909.0	4148.5	10958.7	16635.9	16770.3	14382.6	10125.8
75°	421.8	424.5	443.3	477.4	632.3	1884.4	7974.5	14029.7	14213.3	12178.5	8438.4
77.5°	321.5	328.7	352.9	378.8	472.9	1140.1	5052.1	9559.7	9254.3	7740.7	6043.6
80°	240.9	243.6	259.7	288.4	347.5	714.7	2837.3	4950.0	5079.9	4084.0	3273.4
82.5°	167.5	172.9	185.4	199.7	224.8	452.3	1720.5	2679.7	2660.0	1750.9	1278.0
85°	99.4	103.9	108.4	119.1	128.1	231.1	952.0	1348.8	1314.8	452.3	268.7
87.5°	36.7	38.5	43.0	40.3	46.6	76.1	326.9	337.6	329.6	77.9	57.3
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°	5344.1	5344.1	5344.1	5344.1	5344.1	5344.1	5344.1	5344.1	5344.1	5344.1	5344.1
2.5°	5351.3	5345.0	5320.8	5293.0	5268.9	5251.0	5229.5	5213.3	5208.0	5191.8	5195.4
5°	5386.2	5366.5	5307.4	5251.0	5192.7	5143.5	5099.6	5065.6	5040.5	5021.7	5036.0
7.5°	5442.6	5405.9	5319.0	5222.3	5128.3	5048.5	4978.7	4912.4	4866.7	4851.5	4842.6
10°	5521.4	5471.3	5342.3	5205.3	5073.6	4954.5	4838.1	4757.5	4680.5	4649.1	4631.2
12.5°	5620.8	5548.3	5378.1	5203.5	5026.2	4855.1	4681.3	4559.5	4455.7	4421.6	4400.1
15°	5740.0	5648.6	5438.1	5213.3	4975.1	4725.2	4512.1	4346.4	4220.1	4172.6	4160.1
17.5°	5868.0	5762.3	5510.7	5231.3	4923.2	4602.5	4341.9	4141.3	4002.5	3947.8	3946.1
20°	6025.7	5906.5	5602.9	5267.1	4871.2	4481.6	4172.6	3954.1	3811.7	3741.9	3729.3
22.5°	6207.5	6071.3	5728.3	5308.3	4828.2	4358.9	4012.3	3762.5	3616.5	3553.8	3539.4
25°	6399.1	6251.3	5878.8	5376.3	4790.6	4256.8	3861.9	3603.9	3453.5	3383.6	3369.3
27.5°	6638.3	6475.3	6056.1	5480.2	4771.8	4161.0	3732.9	3455.3	3303.0	3221.5	3216.1
30°	6906.9	6747.5	6292.5	5602.0	4779.0	4084.0	3621.8	3324.5	3159.7	3080.9	3061.2
32.5°	7189.9	7038.6	6543.3	5769.5	4797.8	4013.2	3509.0	3191.9	3020.0	2935.8	2923.3
35°	7503.4	7360.1	6808.4	5920.9	4806.7	3923.7	3376.4	3059.4	2883.9	2810.4	2796.1
37.5°	7840.2	7675.4	7079.8	6040.9	4783.4	3810.8	3246.6	2940.3	2771.9	2706.5	2698.5
40°	8165.3	7984.4	7298.3	6124.2	4744.0	3699.8	3131.9	2836.4	2687.7	2632.2	2622.3
42.5°	8451.0	8248.6	7465.8	6190.4	4701.0	3600.3	3037.0	2760.3	2628.6	2580.2	2571.3
45°	8715.2	8478.7	7631.5	6249.6	4659.9	3510.8	2966.3	2703.8	2582.0	2539.1	2533.7
47.5°	8926.5	8687.4	7764.9	6289.9	4601.6	3440.0	2902.7	2654.6	2546.2	2513.1	2510.4
50°	9137.0	8870.1	7878.7	6296.1	4537.2	3370.2	2847.1	2609.8	2514.0	2491.6	2491.6
52.5°	9322.4	9031.3	7958.4	6253.1	4446.7	3291.4	2779.1	2559.6	2476.4	2470.1	2471.9
55°	9504.2	9180.9	7979.0	6151.9	4341.9	3212.5	2703.8	2491.6	2418.1	2422.6	2426.2
57.5°	9655.6	9248.1	7921.7	5979.1	4215.6	3101.5	2601.7	2384.1	2299.0	2301.7	2309.8
60°	9741.5	9237.3	7779.3	5765.0	4034.7	2954.6	2450.4	2212.2	2090.4	2068.0	2079.6
62.5°	9787.2	9166.6	7538.3	5482.9	3822.5	2760.3	2208.6	1931.8	1784.1	1796.6	1787.6
65°	9784.5	9040.3	7217.7	5139.9	3534.1	2441.4	1887.9	1598.7	1499.2	1467.0	1464.3
67.5°	9721.8	8802.0	6759.2	4664.3	3145.4	2033.0	1504.6	1275.3	1174.1	1170.6	1158.9
70°	9481.8	8419.6	6140.3	4126.1	2586.5	1519.8	1149.1	961.0	870.5	759.5	755.0
71°	9315.2	8192.1	5779.4	3851.1	2334.9	1343.4	1012.0	859.8	719.2	585.7	585.7
72.5°	8824.4	7769.4	5281.4	3420.3	1903.2	1098.9	835.6	690.5	489.9	459.4	461.2
75°	7661.9	6642.7	4321.3	2568.6	1287.0	754.1	583.0	452.3	335.9	365.4	375.3
77.5°	5761.5	5070.9	3211.7	1616.6	732.6	480.9	403.0	297.3	266.9	300.9	300.0
80°	3302.1	3149.0	1980.2	864.3	319.7	302.7	284.8	216.7	204.2	228.4	228.4
82.5°	1624.6	1745.5	1081.9	322.4	146.9	176.4	182.7	151.4	142.4	154.0	157.6
85°	532.9	769.3	398.5	115.5	84.2	87.8	80.6	77.9	77.0	79.7	78.8
87.5°	77.0	138.8	57.3	44.8	34.9	30.5	25.1	23.3	19.7	17.0	16.1
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)