

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: P395116

Luminaire Tested: **LAS100S-T3-Switch-2**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395116
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-2
Description: AREA SITE LARGE HOUSING, TYPE III, WATTAGE SWITCH ON POSTION 2
Light Source: (288) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28421 lumens
Efficiency: N/A
Efficacy: 144.7 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): 196.4
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

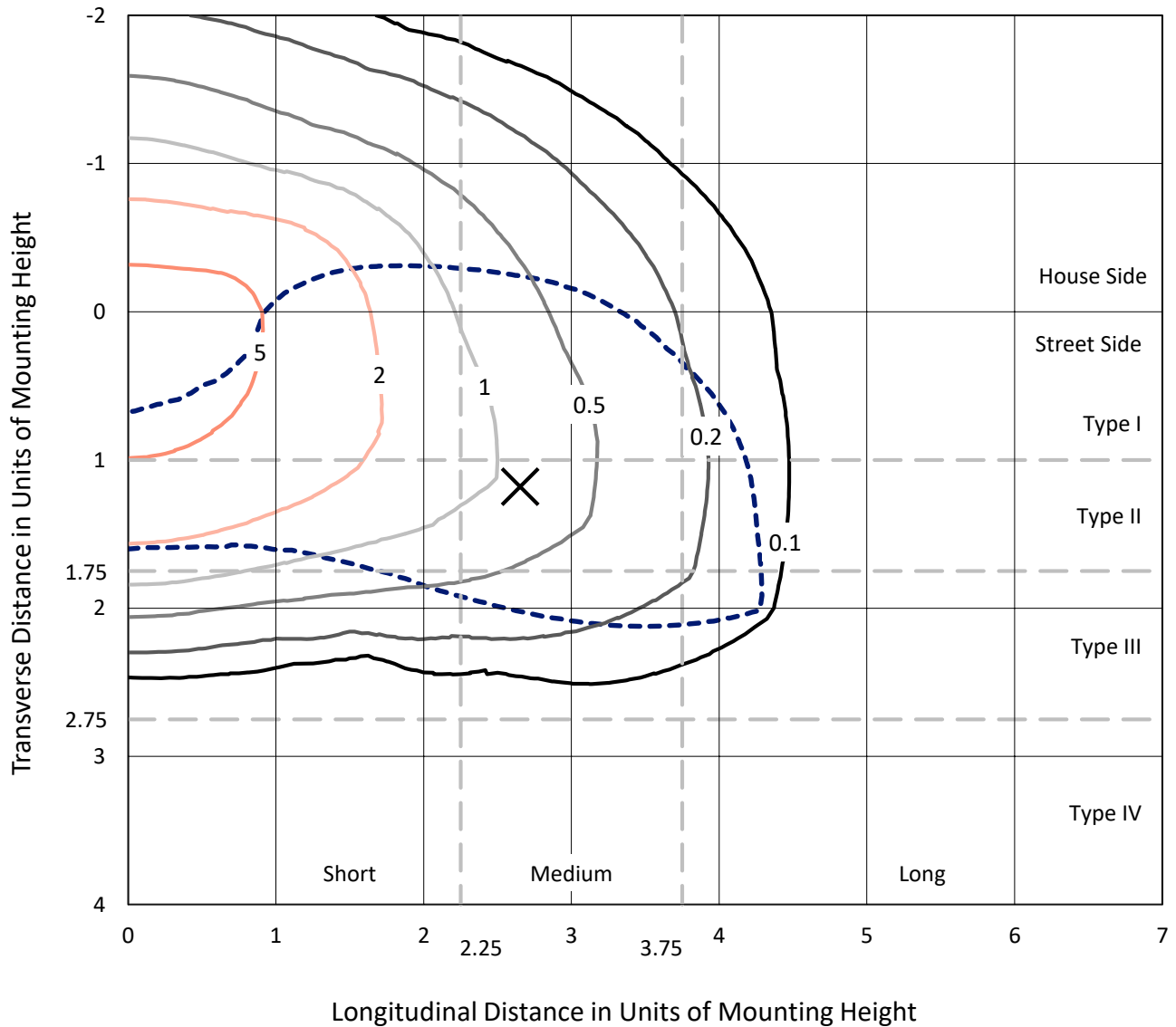


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Iso-Footcandle Lines of Horizontal Illumination

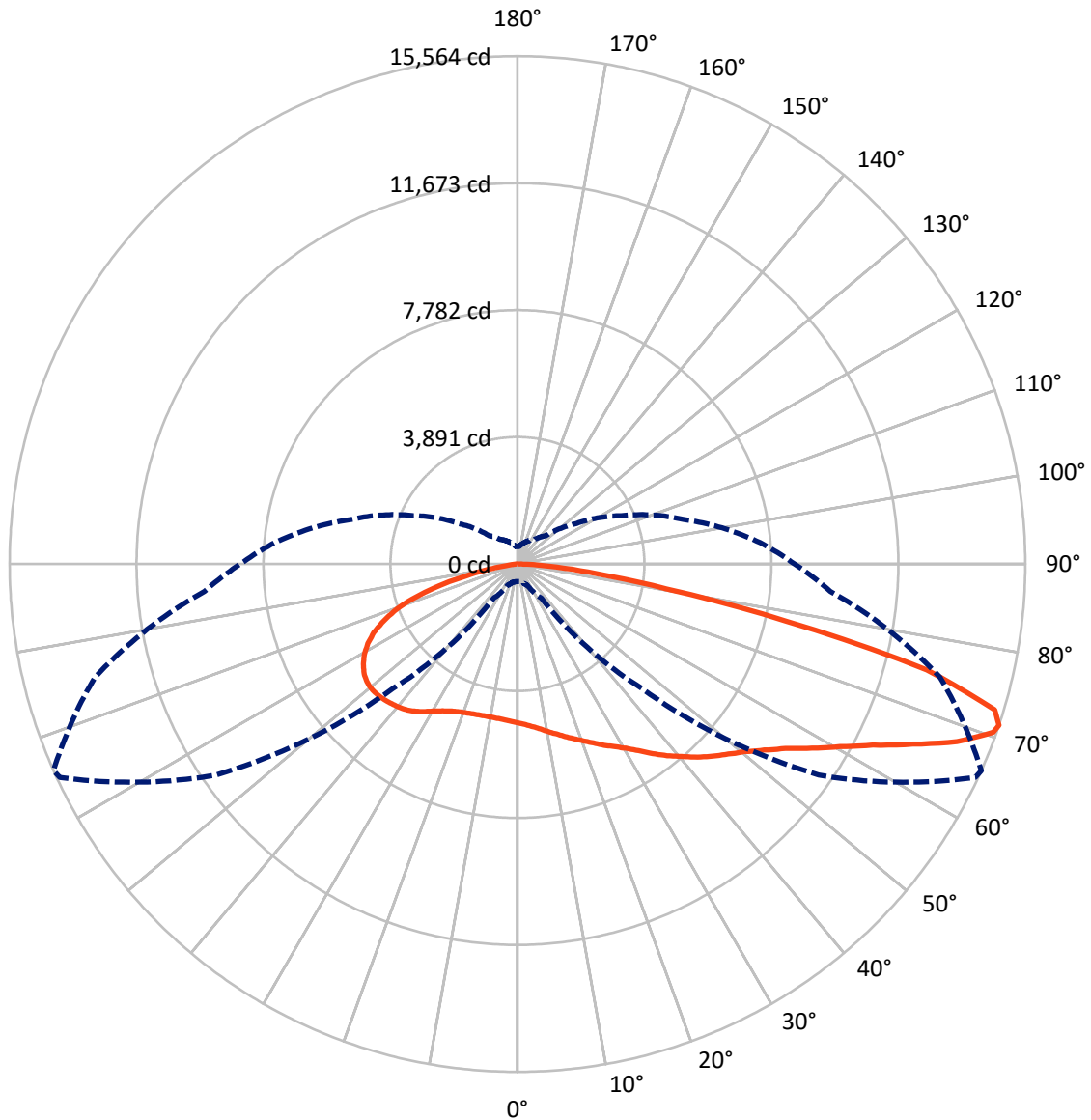
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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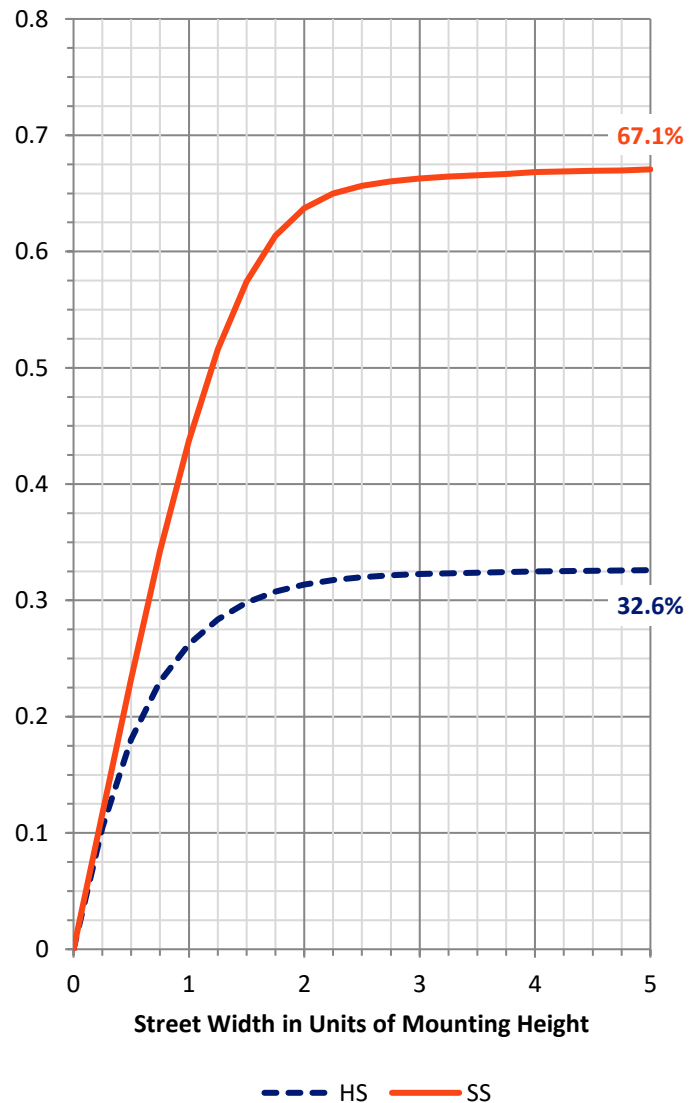
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9325.2	0.0	9325.2
	% Fixture	32.8	0.0	32.8
Street Side	Lumens	19095.8	0.0	19095.8
	% Fixture	67.2	0.0	67.2
Total	Lumens	28421.0	0.0	28421.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.4	1.6
10°-20°	1413.7	5.0
20°-30°	2437.6	8.6
30°-40°	3661.3	12.9
40°-50°	4938.5	17.4
50°-60°	6047.1	21.3
60°-70°	5708.7	20.1
70°-80°	3303.9	11.6
80°-90°	442.8	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°	28421.0	100.0
0°-180°	28421.0	100.0



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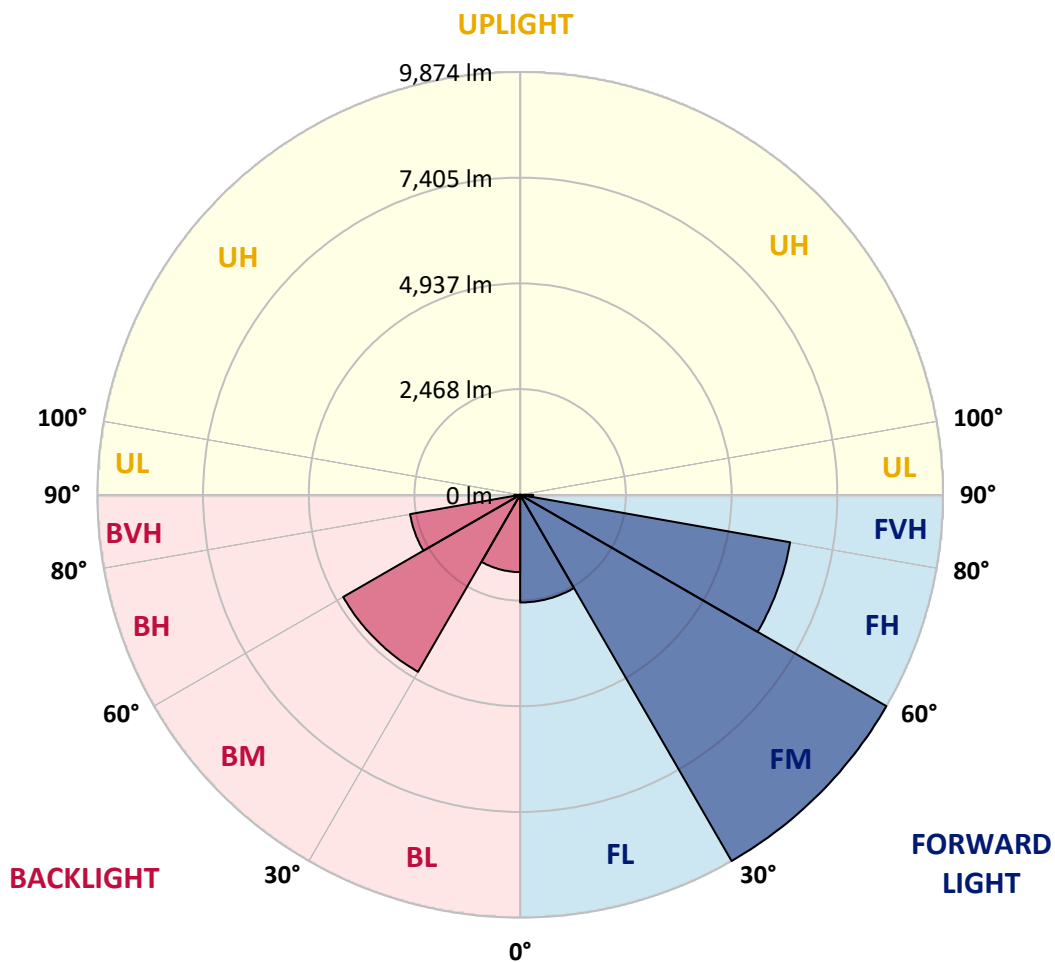
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2514.7	8.8			
FM (30°-60°)	9873.5	34.7			
FH (60°-80°)	6401.8	22.5			G3/7500
FVH (80°-90°)	305.7	1.1			G3/500
BL (0°-30°)	1804.0	6.3	B3/2500		
BM (30°-60°)	4773.4	16.8	B3/5000		
BH (60°-80°)	2610.8	9.2	B4/5000		G4/5000
BVH (80°-90°)	137.1	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°	4873.4	4873.4	4873.4	4873.4	4873.4	4873.4	4873.4	4873.4	4873.4	4873.4	4873.4
2.5°	4998.4	4995.9	4997.5	4991.8	4977.1	4971.4	4956.7	4932.2	4931.4	4910.2	4896.3
5°	5128.2	5125.8	5118.4	5109.4	5093.9	5086.6	5058.8	5013.1	5009.0	4978.8	4942.0
7.5°	5248.3	5247.5	5245.8	5228.7	5212.3	5193.6	5166.6	5119.2	5106.2	5062.9	5006.5
10°	5391.2	5383.9	5378.1	5363.4	5347.1	5323.4	5283.4	5229.5	5228.7	5169.9	5089.8
12.5°	5531.7	5535.0	5523.5	5509.6	5477.8	5456.5	5411.6	5361.8	5343.8	5285.0	5190.3
15°	5687.7	5689.3	5669.7	5658.3	5637.9	5606.8	5545.6	5488.4	5486.0	5410.8	5304.6
17.5°	5874.7	5882.9	5859.2	5843.7	5809.4	5762.8	5698.3	5636.2	5628.9	5552.9	5438.6
20°	6082.2	6072.4	6067.5	6036.4	6004.6	5943.3	5873.1	5802.0	5787.3	5704.8	5586.4
22.5°	6299.4	6297.0	6296.1	6253.7	6218.6	6132.0	6042.1	5970.3	5953.9	5871.4	5742.4
25°	6577.9	6586.1	6546.1	6512.6	6455.4	6343.5	6243.9	6141.0	6150.8	6058.5	5935.2
27.5°	6928.3	6928.3	6909.5	6856.4	6764.1	6607.3	6474.2	6341.1	6336.2	6261.0	6132.8
30°	7384.8	7381.6	7367.7	7317.1	7157.0	6974.8	6734.7	6577.1	6551.8	6452.1	6387.6
32.5°	7625.0	7637.2	7660.9	7650.3	7576.8	7400.4	7086.7	6825.4	6814.8	6702.9	6635.1
35°	7778.5	7790.8	7822.6	7854.5	7812.8	7700.1	7422.4	7165.1	7134.9	6969.1	6909.5
37.5°	7971.2	7974.5	7993.3	8037.4	8034.1	7948.4	7736.0	7483.7	7455.1	7264.8	7216.6
40°	8203.2	8204.0	8218.7	8250.6	8249.8	8171.3	8039.0	7801.4	7751.5	7593.9	7521.2
42.5°	8471.9	8449.9	8470.3	8498.9	8498.9	8439.2	8342.0	8110.9	8092.9	7906.7	7807.1
45°	8718.6	8709.6	8722.6	8738.2	8743.1	8713.7	8627.9	8427.0	8399.2	8202.4	8063.5
47.5°	8969.3	8960.3	8946.4	9000.3	9023.2	9059.1	8971.7	8735.7	8705.5	8443.3	8279.2
50°	9157.1	9151.4	9152.2	9209.4	9304.1	9399.7	9379.3	9094.2	9035.4	8692.4	8471.9
52.5°	9149.8	9142.4	9162.0	9299.2	9519.8	9759.1	9828.5	9533.6	9474.0	9002.8	8651.6
55°	8733.3	8754.5	8855.8	9192.3	9624.3	10148.6	10382.2	10084.9	9974.7	9367.9	8872.1
57.5°	8010.5	7969.6	8199.9	8696.5	9470.8	10410.0	10942.5	10713.8	10650.1	9795.8	9082.0
60°	6741.3	6734.7	7147.2	7816.9	8979.1	10496.6	11536.3	11471.7	11359.0	10302.2	9271.5
62.5°	5002.4	5026.1	5340.6	6407.2	8070.1	10231.9	12130.0	12342.4	12225.6	10900.0	9453.6
65°	2954.1	2961.4	3301.2	4310.7	6536.3	9515.7	12536.7	13423.7	13313.5	11668.6	9632.5
67.5°	1239.0	1312.5	1537.9	2210.1	4471.6	8195.0	12542.5	14514.9	14527.9	12549.0	9786.8
70°	607.6	616.6	708.9	902.5	1863.0	6385.2	11787.8	15392.8	15463.9	13309.4	9757.4
71°	539.0	539.9	579.1	716.3	1279.8	5399.4	11269.2	15477.0	15564.4	13407.4	9625.9
72.5°	478.6	477.8	501.5	558.6	829.0	3783.1	9993.5	15170.7	15293.2	13115.8	9233.9
75°	384.7	387.1	404.3	435.3	576.6	1718.4	7272.1	12794.0	12961.4	11105.8	7695.2
77.5°	293.2	299.7	321.8	345.5	431.2	1039.7	4607.2	8717.7	8439.2	7059.0	5511.3
80°	219.7	222.1	236.9	263.0	316.9	651.7	2587.4	4514.0	4632.5	3724.3	2985.1
82.5°	152.7	157.6	169.1	182.1	205.0	412.4	1568.9	2443.6	2425.7	1596.7	1165.5
85°	90.7	94.7	98.8	108.6	116.8	210.7	868.2	1230.0	1199.0	412.4	245.0
87.5°	33.5	35.1	39.2	36.8	42.5	69.4	298.1	307.9	300.6	71.1	52.3
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°	4873.4	4873.4	4873.4	4873.4	4873.4	4873.4	4873.4	4873.4	4873.4	4873.4	4873.4
2.5°	4879.9	4874.2	4852.2	4826.9	4804.8	4788.5	4768.9	4754.2	4749.3	4734.6	4737.8
5°	4911.8	4893.8	4839.9	4788.5	4735.4	4690.5	4650.4	4619.4	4596.5	4579.4	4592.5
7.5°	4963.2	4929.8	4850.5	4762.3	4676.6	4603.9	4540.2	4479.7	4438.1	4424.2	4416.0
10°	5035.1	4989.4	4871.8	4746.8	4626.8	4518.1	4412.0	4338.5	4268.2	4239.6	4223.3
12.5°	5125.8	5059.6	4904.4	4745.2	4583.5	4427.5	4269.0	4158.0	4063.2	4032.2	4012.6
15°	5234.4	5151.1	4959.2	4754.2	4536.9	4309.0	4114.7	3963.6	3848.4	3805.1	3793.7
17.5°	5351.2	5254.8	5025.3	4770.5	4489.5	4197.2	3959.5	3776.5	3649.9	3600.1	3598.5
20°	5494.9	5386.3	5109.4	4803.2	4442.2	4086.9	3805.1	3605.8	3476.0	3412.3	3400.8
22.5°	5660.7	5536.6	5223.8	4840.7	4403.0	3975.0	3658.9	3431.1	3297.9	3240.8	3227.7
25°	5835.5	5700.7	5361.0	4902.8	4368.7	3881.9	3521.7	3286.5	3149.3	3085.6	3072.5
27.5°	6053.6	5904.9	5522.7	4997.5	4351.5	3794.5	3404.1	3150.9	3012.1	2937.8	2932.9
30°	6298.6	6153.2	5738.3	5108.6	4358.1	3724.3	3302.8	3031.7	2881.4	2809.5	2791.6
32.5°	6556.7	6418.7	5967.0	5261.4	4375.2	3659.8	3199.9	2910.8	2754.0	2677.2	2665.8
35°	6842.5	6711.9	6208.8	5399.4	4383.4	3578.1	3079.1	2789.9	2629.9	2562.9	2549.8
37.5°	7149.6	6999.3	6456.2	5508.8	4362.1	3475.2	2960.6	2681.3	2527.8	2468.1	2460.8
40°	7446.1	7281.1	6655.5	5584.8	4326.2	3373.9	2856.1	2586.6	2451.0	2400.4	2391.4
42.5°	7706.6	7522.0	6808.2	5645.2	4287.0	3283.2	2769.5	2517.2	2397.1	2353.0	2344.8
45°	7947.6	7731.9	6959.3	5699.1	4249.4	3201.6	2705.0	2465.7	2354.6	2315.4	2310.5
47.5°	8140.3	7922.2	7081.0	5735.9	4196.3	3137.0	2647.0	2420.8	2322.0	2291.7	2289.3
50°	8332.2	8088.9	7184.7	5741.6	4137.5	3073.3	2596.4	2379.9	2292.6	2272.1	2272.1
52.5°	8501.3	8235.9	7257.4	5702.4	4055.0	3001.5	2534.3	2334.2	2258.2	2252.5	2254.2
55°	8667.1	8372.3	7276.2	5610.1	3959.5	2929.6	2465.7	2272.1	2205.2	2209.2	2212.5
57.5°	8805.1	8433.5	7223.9	5452.5	3844.3	2828.3	2372.6	2174.1	2096.5	2099.0	2106.3
60°	8883.5	8423.7	7094.1	5257.3	3679.4	2694.4	2234.6	2017.3	1906.2	1885.8	1896.4
62.5°	8925.2	8359.2	6874.4	5000.0	3485.8	2517.2	2014.0	1761.7	1626.9	1638.4	1630.2
65°	8922.7	8244.0	6582.0	4687.2	3222.8	2226.4	1721.7	1457.9	1367.2	1337.8	1335.3
67.5°	8865.6	8026.8	6163.8	4253.5	2868.3	1854.0	1372.1	1163.0	1070.7	1067.5	1056.8
70°	8646.7	7678.0	5599.5	3762.7	2358.7	1386.0	1047.9	876.3	793.9	692.6	688.5
71°	8494.8	7470.6	5270.3	3511.9	2129.2	1225.1	922.9	784.1	655.8	534.1	534.1
72.5°	8047.2	7085.1	4816.2	3119.1	1735.5	1002.1	762.0	629.7	446.7	419.0	420.6
75°	6987.1	6057.7	3940.7	2342.4	1173.6	687.7	531.7	412.4	306.3	333.2	342.2
77.5°	5254.0	4624.3	2928.8	1474.2	668.1	438.6	367.5	271.2	243.4	274.4	273.6
80°	3011.3	2871.6	1805.8	788.1	291.6	276.1	259.7	197.6	186.2	208.3	208.3
82.5°	1481.5	1591.8	986.6	294.0	133.9	160.9	166.6	138.0	129.9	140.5	143.7
85°	486.0	701.6	363.4	105.4	76.8	80.0	73.5	71.1	70.2	72.7	71.9
87.5°	70.2	126.6	52.3	40.8	31.9	27.8	22.9	21.2	18.0	15.5	14.7
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)