

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: P395125

Luminaire Tested: **LAS100S-T4-Switch-1**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395125
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-Switch-1
Description: AREA SITE LARGE HOUSING, TYPE IV, 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: 30594 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 0.88' x L: 1.29' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

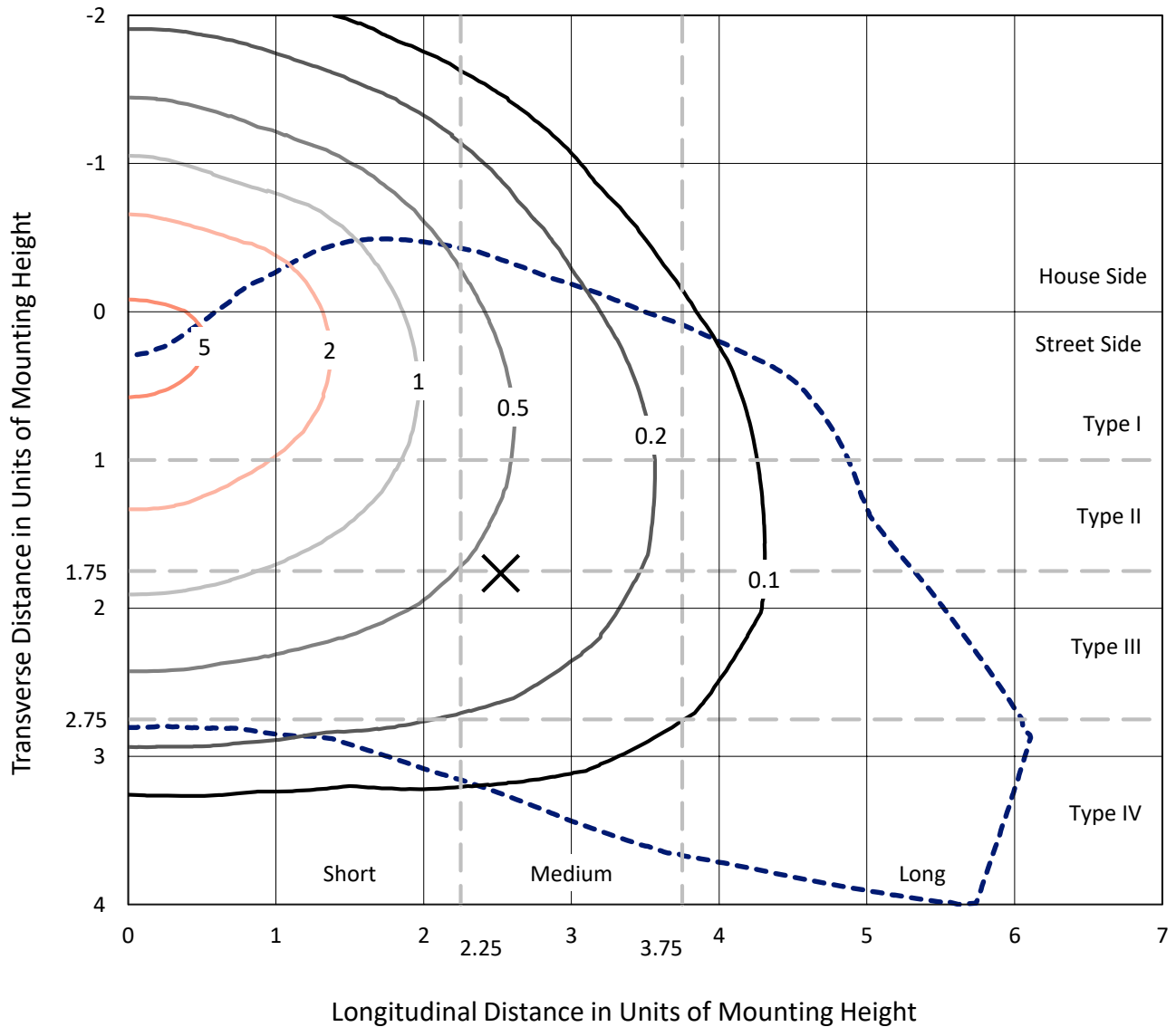
Input Watts (W): 222.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

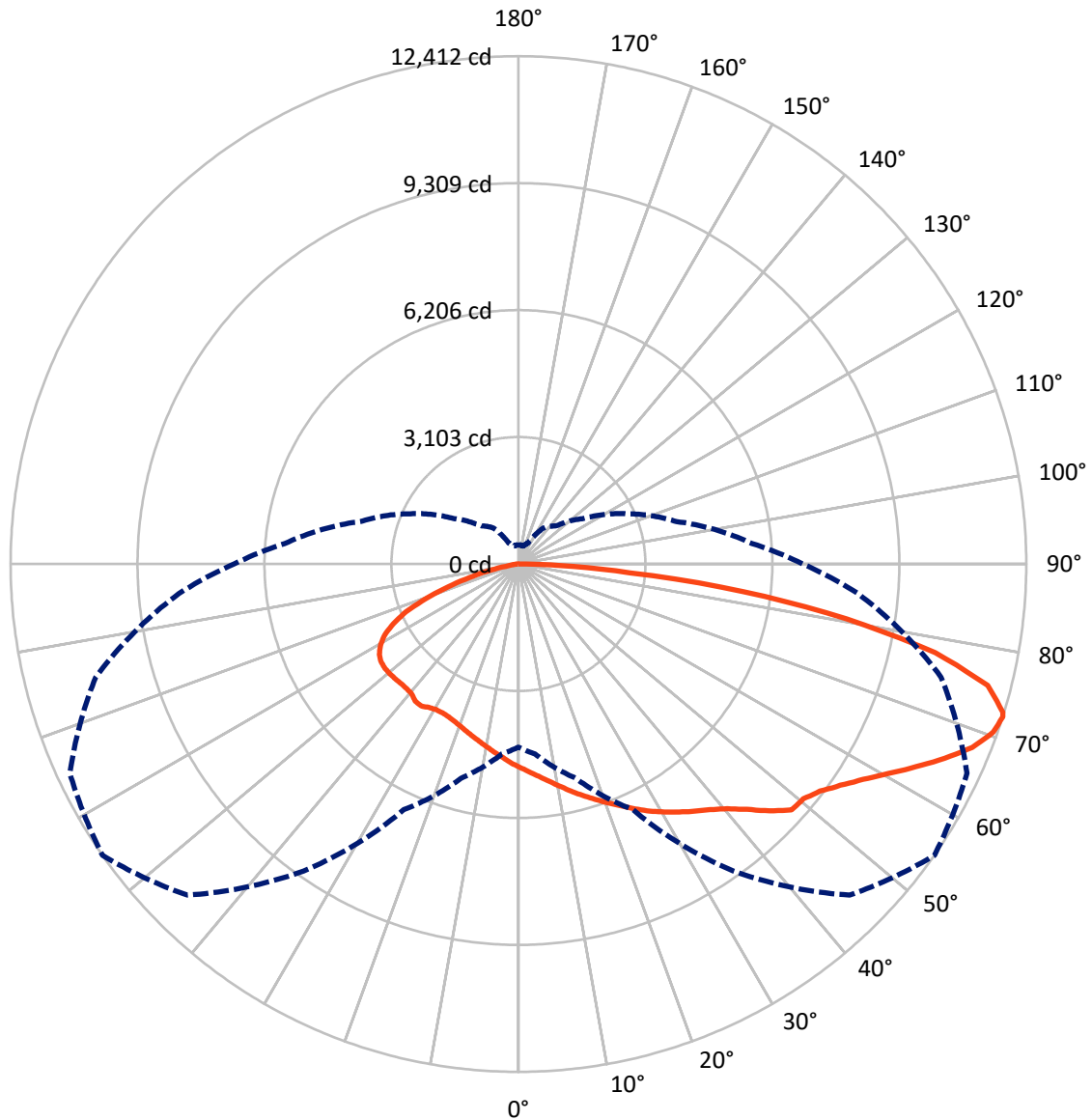
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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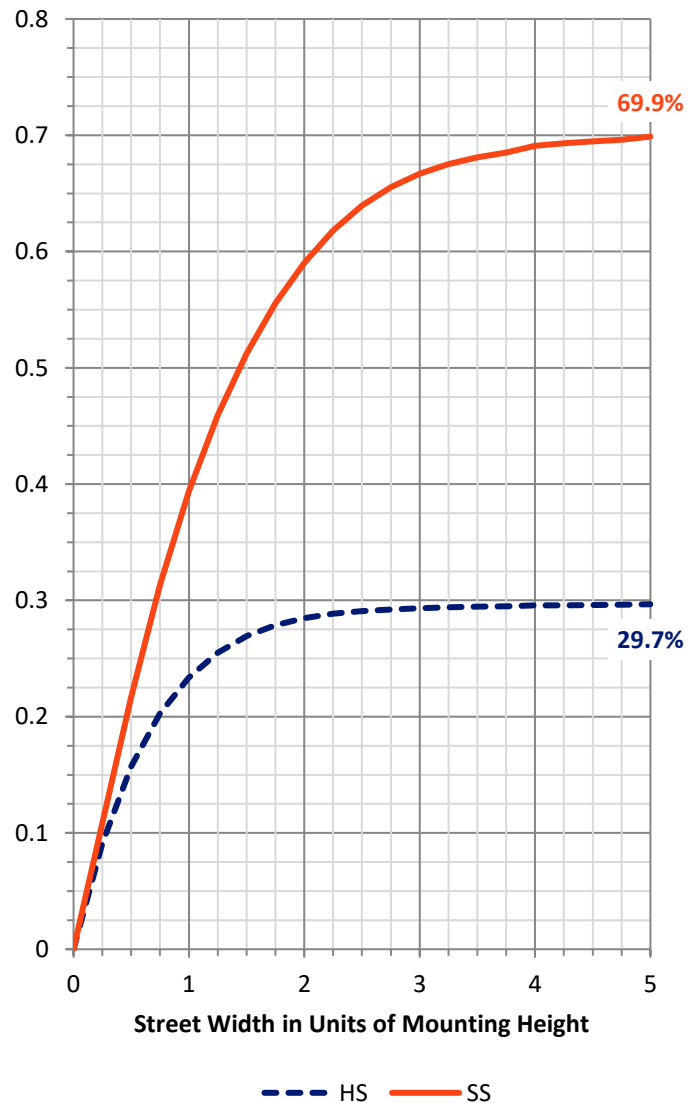
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9133.2	0.0	9133.2
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	21460.8	0.0	21460.8
	% Fixture	70.1	0.0	70.1
Total	Lumens	30594.0	0.0	30594.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.1	1.6
10°-20°	1446.7	4.7
20°-30°	2473.7	8.1
30°-40°	3585.4	11.7
40°-50°	4810.0	15.7
50°-60°	5895.6	19.3
60°-70°	6591.4	21.5
70°-80°	4517.0	14.8
80°-90°	798.1	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°	30594.0	100.0
0°-180°	30594.0	100.0



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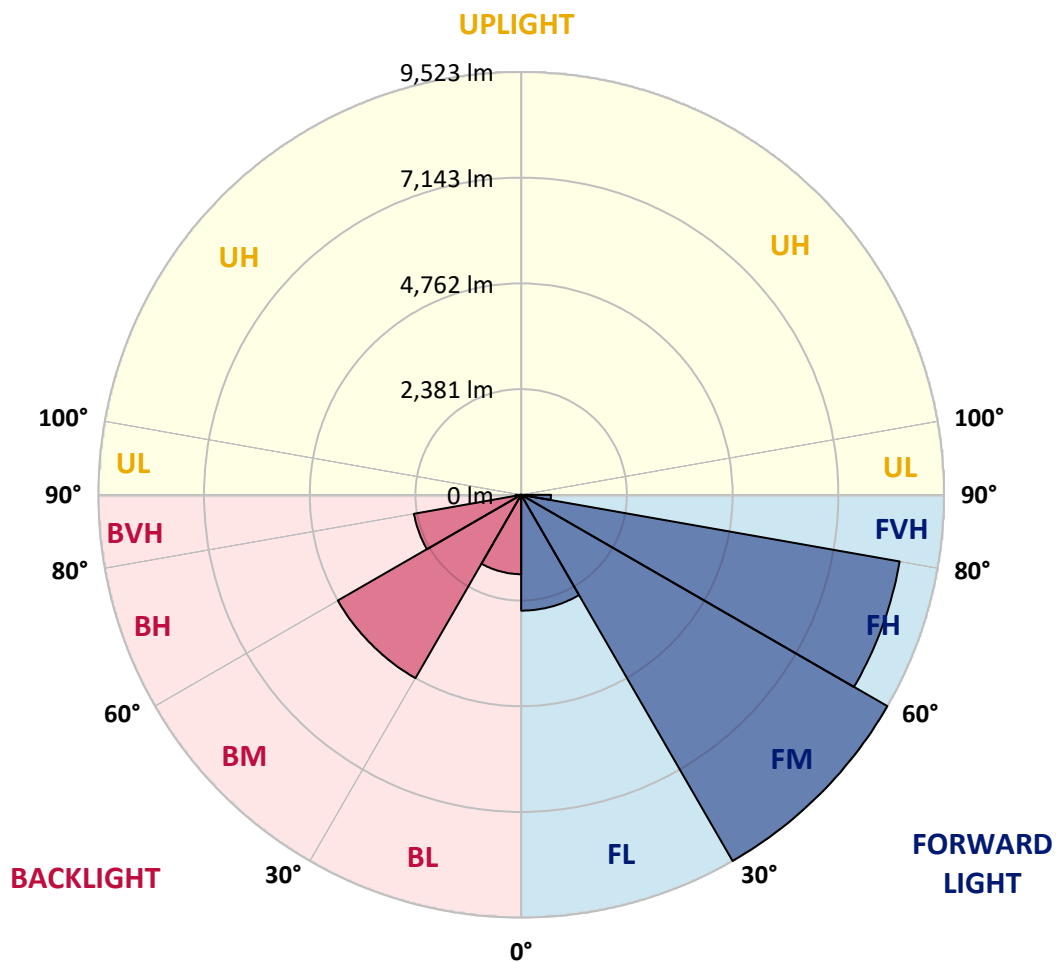
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2608.6	8.5			
FM	(30°-60°)	9523.4	31.1			
FH	(60°-80°)	8656.5	28.3			G4/12000
FVH	(80°-90°)	672.2	2.2			G4/750
BL	(0°-30°)	1788.0	5.8	B3/2500		
BM	(30°-60°)	4767.5	15.6	B3/5000		
BH	(60°-80°)	2451.9	8.0	B3/2500		G3/2500
BVH	(80°-90°)	125.9	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4972.4	4972.4	4972.4	4972.4	4972.4	4972.4	4972.4	4972.4	4972.4	4972.4	4972.4
2.5°	5160.5	5140.8	5141.6	5134.5	5114.8	5096.9	5084.3	5051.2	5026.1	4998.3	4979.5
5°	5365.5	5345.8	5330.6	5314.5	5291.2	5256.3	5212.4	5157.8	5098.7	5037.8	5001.0
7.5°	5565.3	5547.4	5529.4	5505.3	5472.1	5420.2	5355.7	5276.9	5187.3	5093.3	5040.4
10°	5753.3	5744.4	5729.2	5696.0	5654.8	5596.6	5519.6	5420.2	5299.3	5173.0	5096.9
12.5°	5928.9	5934.3	5921.7	5894.0	5848.3	5776.6	5691.5	5571.5	5430.9	5259.0	5168.5
15°	6115.2	6099.0	6093.7	6072.2	6038.1	5966.5	5868.9	5729.2	5575.1	5375.4	5259.0
17.5°	6286.2	6267.4	6262.0	6240.5	6193.1	6138.4	6045.3	5898.4	5725.6	5494.5	5370.9
20°	6433.1	6429.5	6417.0	6407.1	6365.0	6305.0	6227.1	6091.0	5899.3	5653.0	5497.2
22.5°	6595.2	6575.5	6580.9	6553.1	6526.2	6491.3	6424.1	6295.2	6085.6	5810.7	5642.3
25°	6726.9	6716.1	6712.5	6700.0	6691.0	6680.3	6629.2	6513.7	6283.5	5996.0	5803.5
27.5°	6826.3	6819.1	6843.3	6841.5	6874.6	6875.5	6840.6	6717.0	6501.2	6178.8	5972.8
30°	6926.6	6924.8	6967.8	6995.5	7031.4	7062.7	7033.2	6928.4	6700.9	6381.2	6164.4
32.5°	7046.6	7041.2	7090.5	7135.3	7189.0	7242.7	7225.7	7130.8	6921.2	6588.0	6356.1
35°	7167.5	7171.1	7224.8	7272.3	7350.2	7420.1	7419.2	7350.2	7151.4	6820.9	6571.9
37.5°	7308.1	7315.3	7352.0	7418.3	7512.3	7583.9	7615.3	7563.4	7387.8	7078.8	6835.2
40°	7648.4	7629.6	7715.6	7744.3	7790.8	7821.3	7859.8	7822.2	7677.1	7367.2	7140.6
42.5°	7994.1	8031.8	8134.7	8136.5	8179.5	8193.9	8195.6	8138.3	7990.6	7700.4	7426.3
45°	7961.0	8000.4	8155.3	8256.5	8467.9	8595.1	8604.0	8523.4	8363.1	7928.8	7541.0
47.5°	7964.6	8010.3	8141.9	8183.1	8450.9	8785.8	8985.6	8953.3	8695.4	8081.9	7693.2
50°	8073.8	8128.5	8253.9	8202.8	8388.2	8716.9	9020.5	9109.2	8802.9	8264.6	7887.6
52.5°	8253.9	8300.4	8438.4	8358.6	8488.5	8832.4	9224.7	9342.9	9068.0	8501.9	8086.4
55°	8448.2	8507.3	8630.0	8597.8	8729.4	9116.3	9548.9	9685.9	9395.8	8734.8	8257.4
57.5°	8681.1	8708.8	8871.8	8893.3	9055.4	9473.7	9931.3	10053.1	9711.0	8926.5	8388.2
60°	8818.1	8846.7	9055.4	9181.7	9468.3	9942.1	10395.2	10491.1	10037.9	9076.9	8469.7
62.5°	9006.2	9031.2	9183.5	9421.7	9918.8	10466.9	10909.3	10942.5	10360.3	9194.2	8467.0
65°	9072.4	9073.3	9238.1	9622.3	10283.3	11013.2	11449.4	11379.5	10656.8	9197.8	8331.8
67.5°	8198.3	8298.6	8598.7	9471.9	10520.6	11487.9	11960.8	11781.6	10841.3	9058.1	8020.1
70°	6597.0	6564.8	7017.0	8317.4	10189.3	11686.7	12311.8	12034.2	10840.4	8733.9	7486.3
72°	4476.2	4661.6	5420.2	6624.8	9157.5	11443.1	12412.1	12096.9	10697.1	8335.4	6947.2
72.5°	4034.7	4176.2	4779.8	6167.1	8896.0	11312.3	12379.9	12085.2	10636.2	8184.0	6777.0
75°	1326.4	1501.0	2137.8	3547.5	6610.4	9936.7	11843.4	11827.3	10020.0	7342.1	5835.7
77.5°	523.0	532.0	593.8	1358.6	3953.2	7849.9	10411.4	10751.7	8269.1	6052.5	4607.9
80°	379.7	370.8	383.3	493.5	1567.3	5178.4	8140.1	8439.2	4921.3	4070.5	3222.4
82.5°	261.5	257.9	263.3	313.5	651.1	2842.6	5546.5	4876.5	1762.5	1819.0	1836.9
85°	146.0	148.7	146.9	177.3	344.8	1249.4	2734.3	1940.8	273.2	327.8	762.2
87.5°	54.6	55.5	57.3	64.5	120.0	347.5	987.8	316.1	46.6	46.6	120.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4972.4	4972.4	4972.4	4972.4	4972.4	4972.4	4972.4	4972.4	4972.4	4972.4
2.5°	4967.0	4933.0	4894.5	4869.4	4835.4	4818.3	4795.9	4795.9	4786.1	4778.0
5°	4968.8	4892.7	4816.5	4749.4	4696.5	4645.5	4603.4	4572.9	4568.5	4558.6
7.5°	4984.0	4870.3	4751.2	4647.3	4556.8	4475.3	4408.1	4370.5	4346.4	4329.3
10°	5017.2	4861.3	4698.3	4544.3	4412.6	4307.8	4221.9	4177.1	4150.2	4143.9
12.5°	5070.0	4860.4	4648.2	4453.8	4285.5	4160.1	4070.5	4011.4	3990.8	3975.6
15°	5132.7	4873.0	4609.7	4367.8	4169.0	4021.2	3929.0	3868.1	3837.7	3831.4
17.5°	5218.7	4904.3	4579.2	4287.2	4058.9	3895.0	3797.3	3735.6	3707.8	3703.3
20°	5325.2	4947.3	4559.5	4215.6	3963.0	3789.3	3674.7	3609.3	3586.0	3586.0
22.5°	5447.9	5007.3	4551.4	4152.9	3873.5	3688.1	3569.0	3509.0	3494.6	3489.3
25°	5580.5	5091.5	4564.9	4108.1	3792.0	3598.5	3480.3	3417.6	3392.5	3389.0
27.5°	5734.5	5191.8	4599.8	4083.0	3732.0	3513.4	3397.9	3322.7	3300.3	3289.5
30°	5904.7	5312.7	4661.6	4088.4	3699.7	3450.8	3303.9	3237.6	3204.5	3191.9
32.5°	6095.5	5463.2	4762.8	4132.3	3696.1	3402.4	3228.6	3138.2	3102.4	3099.7
35°	6305.9	5652.1	4915.1	4207.5	3694.4	3341.5	3140.9	3046.8	3025.3	3026.2
37.5°	6579.1	5898.4	5053.0	4193.2	3577.9	3222.4	3041.5	2979.7	2960.9	2958.2
40°	6859.4	6043.5	5014.5	4105.4	3481.2	3123.9	2967.1	2918.8	2909.8	2904.4
42.5°	7020.6	6050.7	5035.1	4089.3	3424.8	3067.4	2911.6	2865.9	2851.6	2847.1
45°	7105.7	6159.0	5128.2	4095.6	3388.1	3022.7	2857.9	2809.5	2784.4	2779.1
47.5°	7273.2	6298.8	5224.9	4113.5	3365.7	2962.6	2799.6	2745.0	2719.0	2719.9
50°	7449.6	6428.6	5302.0	4132.3	3339.7	2909.8	2737.9	2674.3	2655.5	2648.3
52.5°	7605.4	6529.8	5337.8	4137.7	3307.5	2855.2	2663.5	2591.9	2568.6	2563.2
55°	7722.8	6578.2	5319.9	4123.3	3261.8	2783.5	2576.6	2490.7	2462.0	2456.6
57.5°	7792.6	6554.0	5224.9	4052.6	3187.4	2694.9	2463.8	2353.6	2316.0	2310.7
60°	7782.8	6417.0	5026.1	3911.1	3068.3	2551.6	2276.6	2150.3	2101.1	2093.0
62.5°	7668.1	6159.9	4759.2	3708.7	2878.5	2312.4	2033.9	1880.8	1803.7	1779.6
65°	7423.6	5780.2	4424.3	3377.3	2547.1	1995.4	1713.3	1531.5	1324.6	1276.2
67.5°	7006.3	5259.0	3965.7	2985.9	2139.6	1671.2	1407.0	966.4	755.9	708.4
70°	6342.6	4550.5	3400.6	2414.5	1658.7	1328.2	952.9	535.6	522.1	523.9
72°	5729.2	4003.3	2906.2	1937.2	1322.8	1079.2	571.4	453.2	468.4	462.1
72.5°	5548.2	3849.3	2801.4	1807.3	1240.4	1021.9	508.7	438.8	447.8	455.0
75°	4673.2	3006.5	2016.0	1238.6	919.8	683.3	377.9	373.5	385.1	387.8
77.5°	3540.3	2143.2	1294.1	785.4	612.6	389.6	302.7	302.7	314.4	316.1
80°	2327.7	1321.9	539.2	310.8	385.1	257.0	223.9	229.3	242.7	248.1
82.5°	1472.4	712.9	161.2	163.0	196.1	168.4	151.4	157.6	169.3	170.2
85°	717.4	146.0	86.9	88.7	90.5	91.4	78.8	84.2	86.9	84.2
87.5°	176.4	36.7	33.1	35.8	28.7	24.2	24.2	20.6	14.3	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)