

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: P395128

Luminaire Tested: **LAS100S-T4-Switch-4**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395128
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-4
Description: AREA SITE LARGE HOUSING, TYPE IV, 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: 22174 lumens
Efficiency: N/A
Efficacy: 151.0 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 - G3

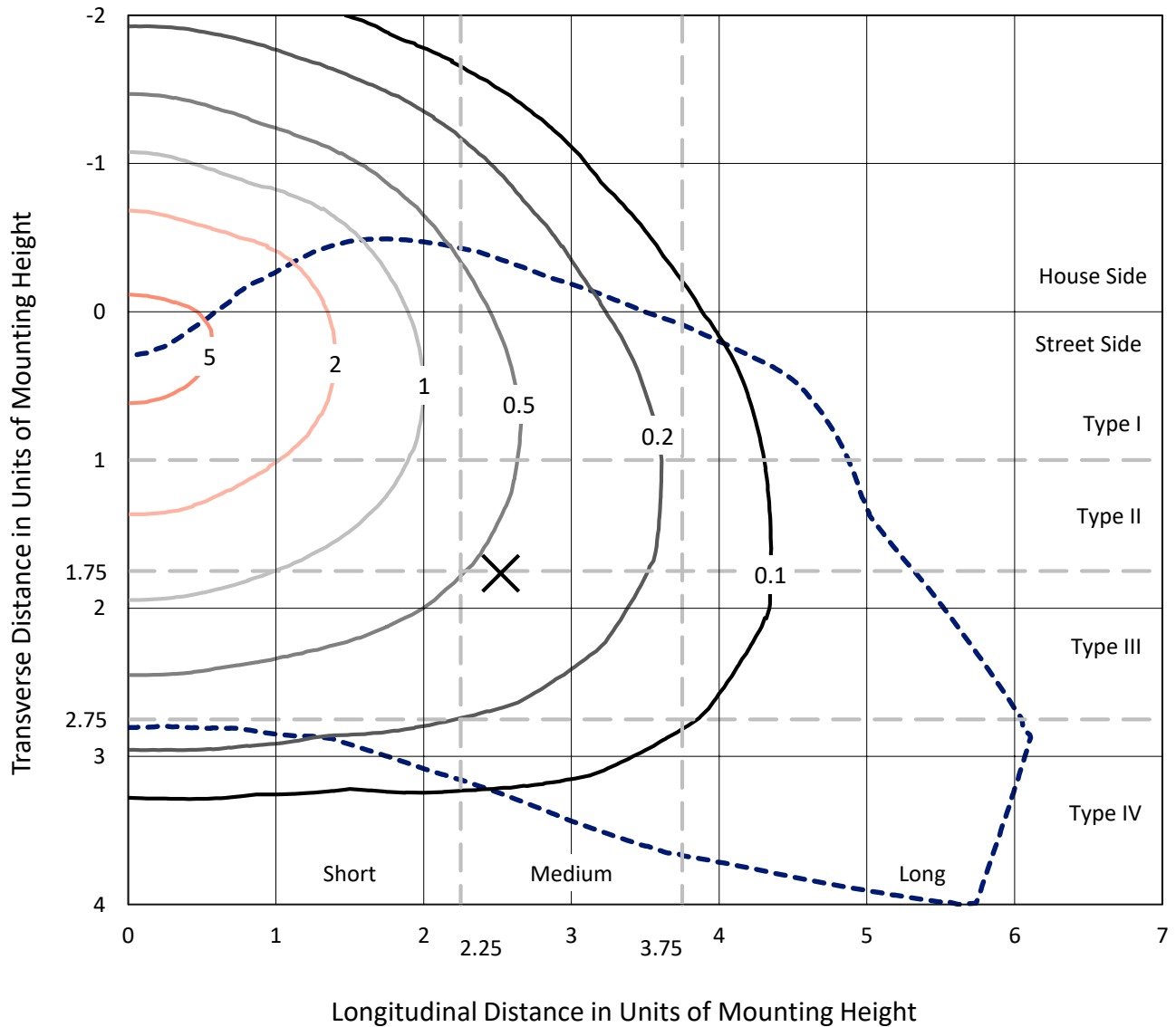
Input Watts (W): 146.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

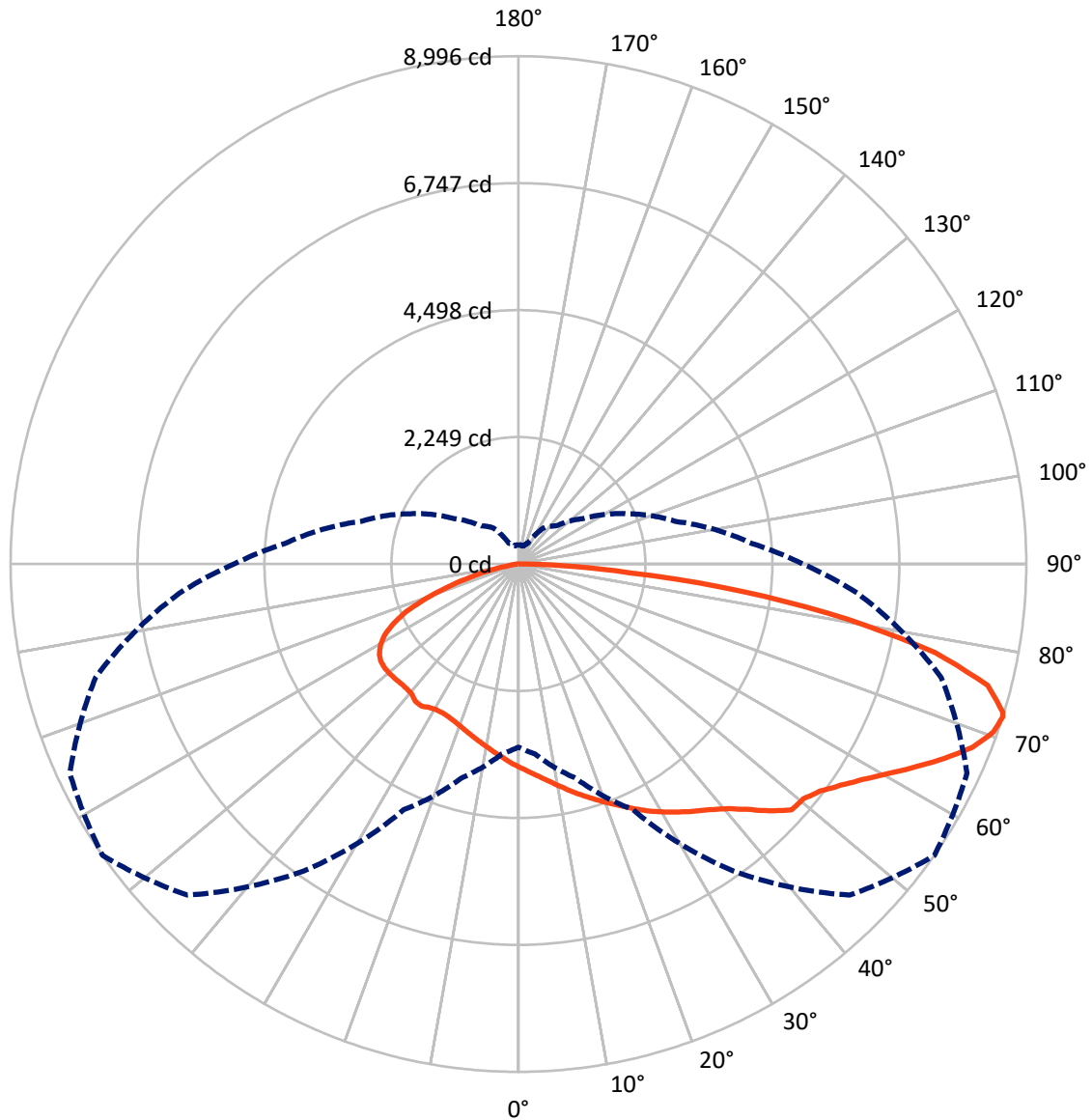
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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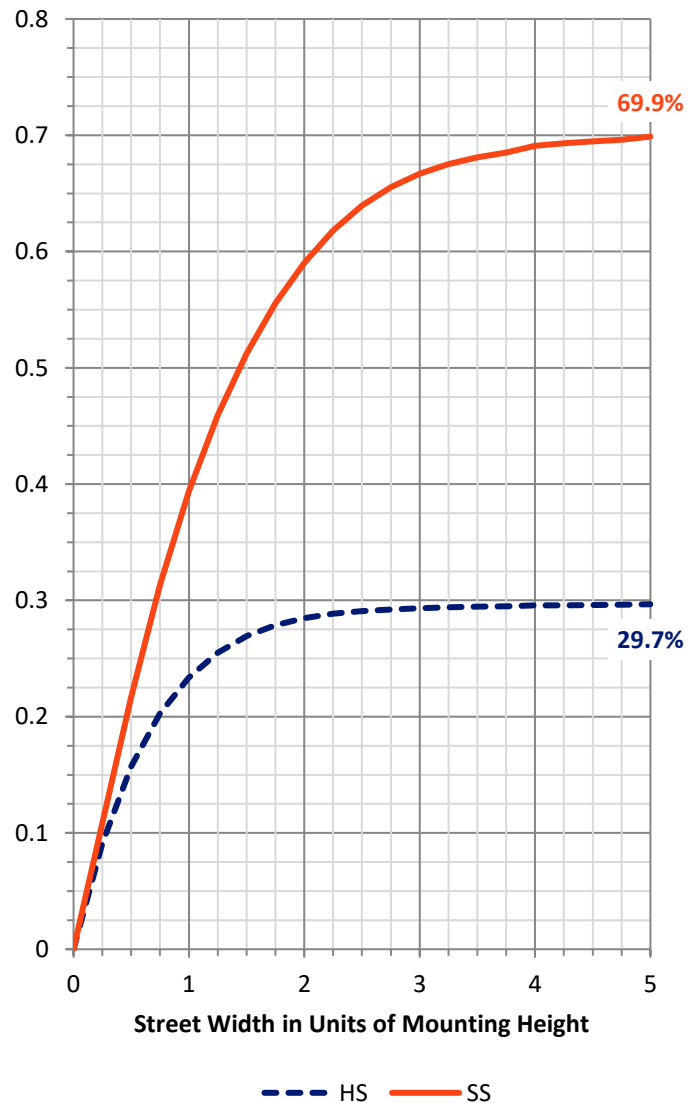
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6619.6	0.0	6619.6
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	15554.4	0.0	15554.4
	% Fixture	70.1	0.0	70.1
Total	Lumens	22174.0	0.0	22174.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.1	1.6
10°-20°	1048.6	4.7
20°-30°	1792.9	8.1
30°-40°	2598.6	11.7
40°-50°	3486.2	15.7
50°-60°	4273.0	19.3
60°-70°	4777.4	21.5
70°-80°	3273.8	14.8
80°-90°	578.4	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°	22174.0	100.0
0°-180°	22174.0	100.0



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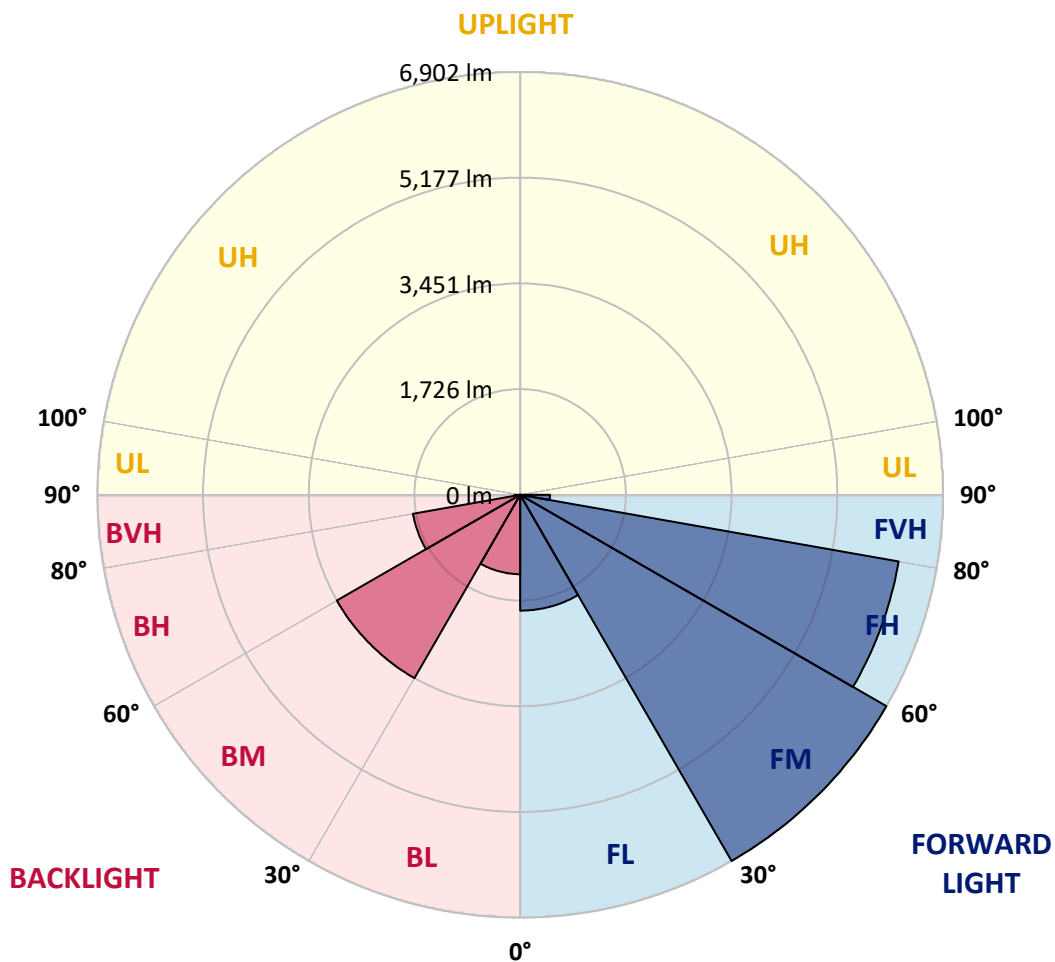
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1890.7	8.5			
FM	(30°-60°)	6902.4	31.1			
FH	(60°-80°)	6274.1	28.3			G3/7500
FVH	(80°-90°)	487.2	2.2			G3/500
BL	(0°-30°)	1295.9	5.8	B3/2500		
BM	(30°-60°)	3455.4	15.6	B3/5000		
BH	(60°-80°)	1777.1	8.0	B3/2500		G3/2500
BVH	(80°-90°)	91.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9
2.5°	3740.2	3725.9	3726.6	3721.4	3707.1	3694.1	3685.0	3661.0	3642.8	3622.7	3609.1
5°	3888.9	3874.6	3863.5	3851.9	3835.0	3809.7	3777.9	3738.3	3695.4	3651.3	3624.7
7.5°	4033.6	4020.6	4007.6	3990.1	3966.1	3928.5	3881.7	3824.6	3759.7	3691.5	3653.2
10°	4169.9	4163.4	4152.4	4128.4	4098.5	4056.3	4000.5	3928.5	3840.8	3749.3	3694.1
12.5°	4297.1	4301.0	4292.0	4271.8	4238.7	4186.8	4125.1	4038.2	3936.2	3811.6	3746.0
15°	4432.2	4420.5	4416.6	4401.0	4376.3	4324.4	4253.7	4152.4	4040.7	3896.0	3811.6
17.5°	4556.1	4542.5	4538.6	4523.0	4488.6	4449.0	4381.5	4275.1	4149.8	3982.3	3892.7
20°	4662.6	4660.0	4650.9	4643.8	4613.3	4569.8	4513.3	4414.6	4275.7	4097.2	3984.3
22.5°	4780.1	4765.8	4769.7	4749.6	4730.1	4704.8	4656.1	4562.6	4410.7	4211.5	4089.4
25°	4875.5	4867.7	4865.1	4856.0	4849.5	4841.8	4804.8	4721.0	4554.2	4345.8	4206.3
27.5°	4947.6	4942.4	4959.9	4958.6	4982.6	4983.3	4957.9	4868.4	4711.9	4478.3	4329.0
30°	5020.3	5019.0	5050.1	5070.2	5096.2	5118.9	5097.5	5021.6	4856.7	4625.0	4467.9
32.5°	5107.2	5103.4	5139.1	5171.5	5210.5	5249.4	5237.1	5168.3	5016.4	4774.9	4606.8
35°	5194.9	5197.5	5236.4	5270.8	5327.3	5377.9	5377.3	5327.3	5183.2	4943.7	4763.2
37.5°	5296.8	5302.0	5328.6	5376.6	5444.8	5496.7	5519.4	5481.8	5354.6	5130.6	4954.1
40°	5543.5	5529.8	5592.1	5612.9	5646.7	5668.7	5696.6	5669.4	5564.2	5339.6	5175.4
42.5°	5794.0	5821.3	5895.9	5897.2	5928.4	5938.8	5940.1	5898.5	5791.4	5581.1	5382.5
45°	5770.0	5798.6	5910.9	5984.2	6137.4	6229.6	6236.1	6177.6	6061.4	5746.6	5465.6
47.5°	5772.6	5805.7	5901.1	5931.0	6125.1	6367.8	6512.6	6489.2	6302.3	5857.6	5575.9
50°	5851.8	5891.4	5982.3	5945.3	6079.6	6317.8	6537.9	6602.2	6380.2	5990.0	5716.8
52.5°	5982.3	6016.0	6116.0	6058.2	6152.3	6401.6	6685.9	6771.6	6572.3	6162.1	5860.9
55°	6123.1	6166.0	6254.9	6231.5	6326.9	6607.4	6920.9	7020.2	6809.9	6330.8	5984.9
57.5°	6291.9	6312.0	6430.1	6445.7	6563.2	6866.4	7198.0	7286.3	7038.4	6469.7	6079.6
60°	6391.2	6412.0	6563.2	6654.7	6862.5	7205.8	7534.3	7603.7	7275.3	6578.8	6138.7
62.5°	6527.5	6545.7	6656.0	6828.7	7189.0	7586.2	7906.9	7930.9	7509.0	6663.8	6136.7
65°	6575.5	6576.2	6695.6	6974.1	7453.2	7982.2	8298.3	8247.7	7723.8	6666.4	6038.7
67.5°	5942.0	6014.7	6232.2	6865.1	7625.2	8326.2	8668.9	8539.1	7857.6	6565.2	5812.8
70°	4781.4	4758.0	5085.8	6028.3	7385.0	8470.3	8923.4	8722.2	7856.9	6330.2	5426.0
72°	3244.3	3378.6	3928.5	4801.5	6637.2	8293.8	8996.1	8767.6	7753.0	6041.3	5035.2
72.5°	2924.3	3026.8	3464.3	4469.8	6447.7	8199.0	8972.7	8759.2	7708.9	5931.6	4911.9
75°	961.3	1087.9	1549.4	2571.1	4791.1	7201.9	8583.9	8572.2	7262.3	5321.5	4229.6
77.5°	379.1	385.6	430.4	984.7	2865.2	5689.5	7546.0	7792.6	5993.3	4386.7	3339.7
80°	275.2	268.7	277.8	357.7	1136.0	3753.2	5899.8	6116.6	3566.9	2950.2	2335.5
82.5°	189.5	186.9	190.8	227.2	471.9	2060.3	4020.0	3534.4	1277.5	1318.4	1331.3
85°	105.8	107.8	106.5	128.5	249.9	905.5	1981.8	1406.6	198.0	237.6	552.4
87.5°	39.6	40.2	41.5	46.7	87.0	251.9	716.0	229.1	33.8	33.8	87.6
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°	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9	3603.9
2.5°	3600.0	3575.3	3547.4	3529.2	3504.6	3492.2	3476.0	3476.0	3468.9	3463.0
5°	3601.3	3546.1	3490.9	3442.3	3404.0	3367.0	3336.5	3314.4	3311.1	3304.0
7.5°	3612.3	3529.9	3443.6	3368.3	3302.7	3243.6	3194.9	3167.7	3150.2	3137.8
10°	3636.3	3523.4	3405.3	3293.6	3198.2	3122.2	3059.9	3027.5	3008.0	3003.5
12.5°	3674.6	3522.8	3368.9	3228.1	3106.0	3015.1	2950.2	2907.4	2892.5	2881.4
15°	3720.1	3531.8	3341.0	3165.7	3021.6	2914.5	2847.7	2803.5	2781.5	2776.9
17.5°	3782.4	3554.6	3318.9	3107.3	2941.8	2823.0	2752.3	2707.5	2687.3	2684.1
20°	3859.6	3585.7	3304.7	3055.4	2872.3	2746.4	2663.3	2615.9	2599.1	2599.1
22.5°	3948.6	3629.2	3298.8	3010.0	2807.4	2673.1	2586.7	2543.2	2532.9	2529.0
25°	4044.6	3690.2	3308.5	2977.5	2748.4	2608.1	2522.5	2477.0	2458.9	2456.3
27.5°	4156.3	3762.9	3333.9	2959.3	2704.9	2546.5	2462.7	2408.2	2392.0	2384.2
30°	4279.6	3850.6	3378.6	2963.2	2681.5	2501.0	2394.6	2346.6	2322.5	2313.4
32.5°	4417.9	3959.6	3452.0	2995.0	2678.9	2466.0	2340.1	2274.5	2248.5	2246.6
35°	4570.4	4096.6	3562.3	3049.5	2677.6	2421.9	2276.5	2208.3	2192.7	2193.4
37.5°	4768.4	4275.1	3662.3	3039.2	2593.2	2335.5	2204.4	2159.6	2146.0	2144.0
40°	4971.6	4380.2	3634.4	2975.5	2523.1	2264.1	2150.5	2115.5	2109.0	2105.1
42.5°	5088.4	4385.4	3649.3	2963.9	2482.2	2223.2	2110.3	2077.2	2066.8	2063.5
45°	5150.1	4464.0	3716.8	2968.4	2455.6	2190.8	2071.3	2036.3	2018.1	2014.2
47.5°	5271.5	4565.2	3786.9	2981.4	2439.4	2147.3	2029.1	1989.5	1970.7	1971.4
50°	5399.3	4659.4	3842.8	2995.0	2420.6	2109.0	1984.3	1938.3	1924.6	1919.4
52.5°	5512.3	4732.7	3868.7	2998.9	2397.2	2069.4	1930.5	1878.5	1861.7	1857.8
55°	5597.3	4767.8	3855.7	2988.5	2364.1	2017.5	1867.5	1805.2	1784.4	1780.5
57.5°	5648.0	4750.2	3786.9	2937.3	2310.2	1953.2	1785.7	1705.9	1678.6	1674.7
60°	5640.8	4650.9	3642.8	2834.7	2223.9	1849.3	1650.1	1558.5	1522.8	1517.0
62.5°	5557.7	4464.6	3449.4	2688.0	2086.3	1676.0	1474.1	1363.1	1307.3	1289.8
65°	5380.5	4189.4	3206.6	2447.8	1846.1	1446.2	1241.8	1110.0	960.0	925.0
67.5°	5078.0	3811.6	2874.3	2164.2	1550.7	1211.3	1019.8	700.4	547.9	513.5
70°	4597.0	3298.2	2464.7	1750.0	1202.2	962.6	690.7	388.2	378.4	379.7
72°	4152.4	2901.5	2106.4	1404.0	958.7	782.2	414.1	328.5	339.5	334.9
72.5°	4021.3	2789.9	2030.4	1309.9	899.0	740.6	368.7	318.1	324.6	329.8
75°	3387.1	2179.1	1461.2	897.7	666.6	495.3	273.9	270.7	279.1	281.1
77.5°	2566.0	1553.3	938.0	569.3	444.0	282.4	219.4	219.4	227.8	229.1
80°	1687.1	958.1	390.8	225.2	279.1	186.3	162.3	166.2	175.9	179.8
82.5°	1067.1	516.7	116.8	118.1	142.2	122.0	109.7	114.2	122.7	123.3
85°	519.9	105.8	63.0	64.3	65.6	66.2	57.1	61.0	63.0	61.0
87.5°	127.9	26.6	24.0	26.0	20.8	17.5	17.5	14.9	10.4	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)