

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: STREETWORKS

Report Number: P322274

Luminaire Tested: **GAN-SA0A-750-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33613 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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: 24 FT

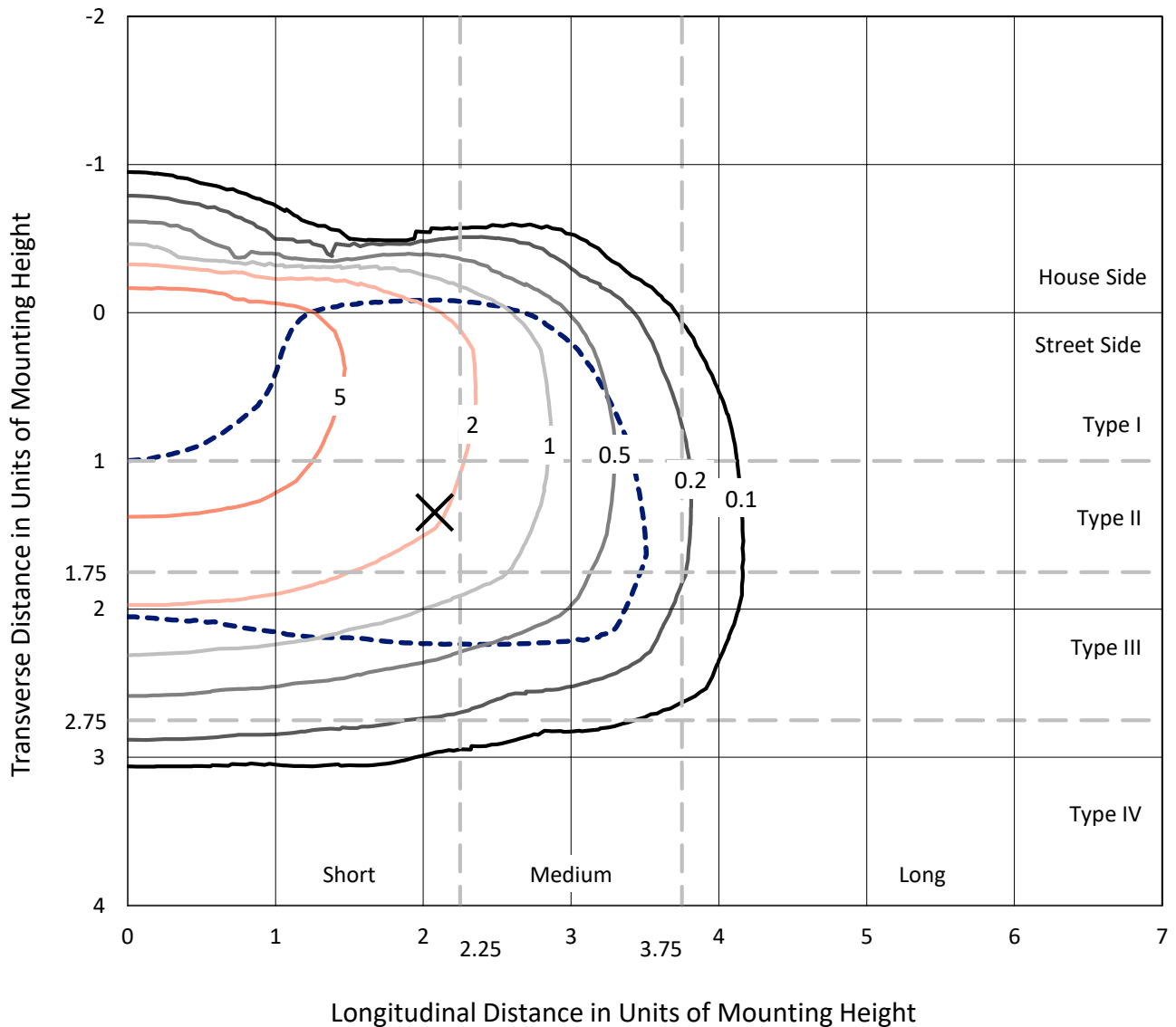




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Iso-Footcandle Lines of Horizontal Illumination

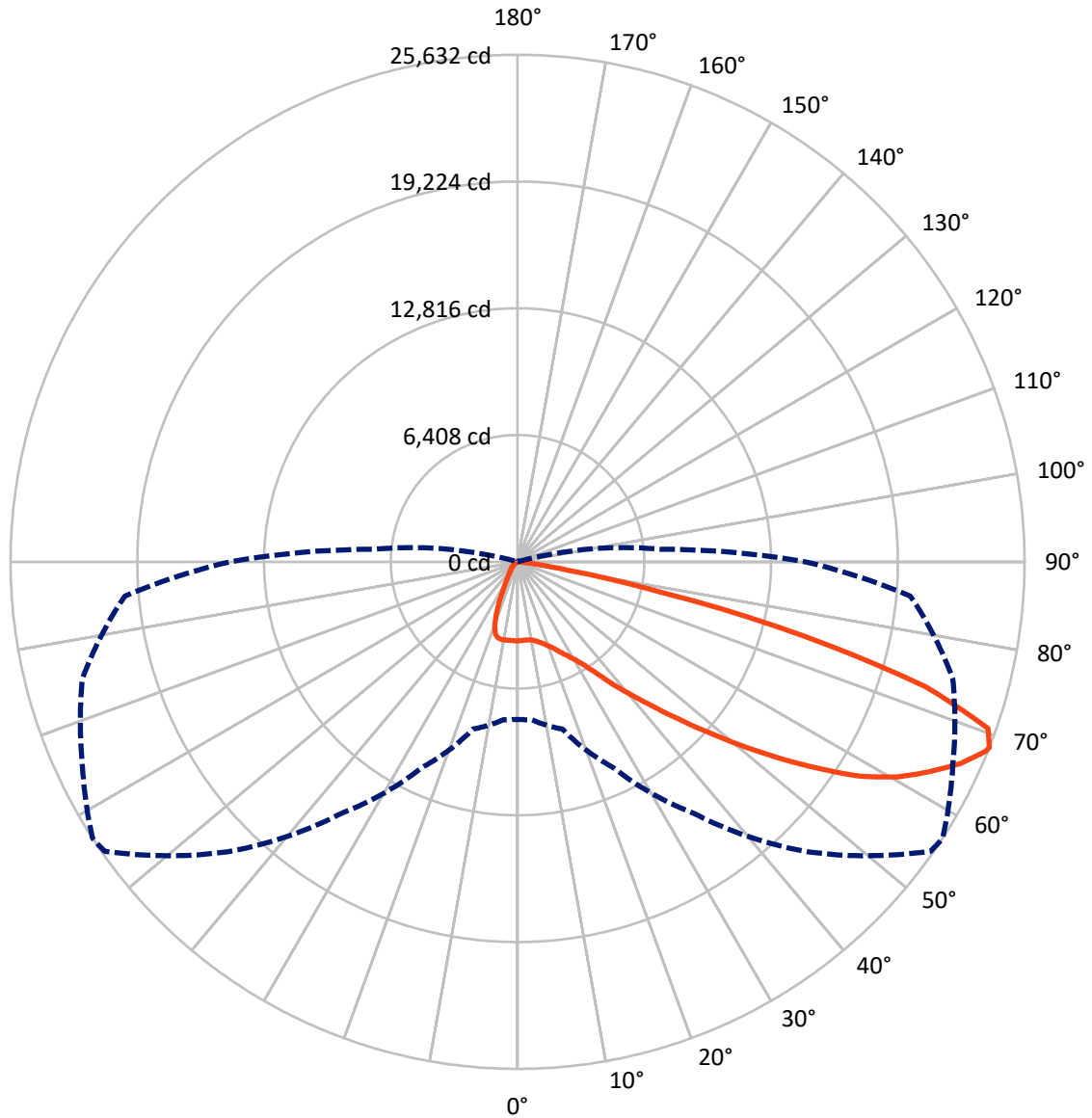
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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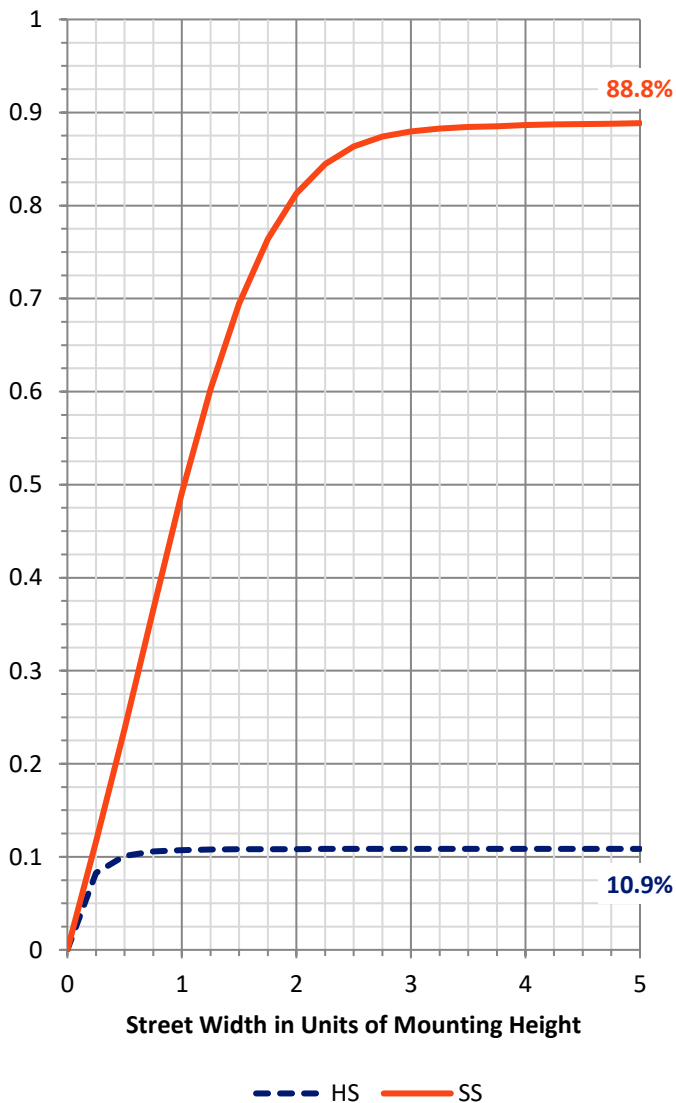
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3685.9	0.0	3685.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	29927.1	0.0	29927.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	33613.0	0.0	33613.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.8	1.1
10°-20°	1035.8	3.1
20°-30°	1786.9	5.3
30°-40°	3084.0	9.2
40°-50°	5275.3	15.7
50°-60°	8440.0	25.1
60°-70°	9751.4	29.0
70°-80°	3726.2	11.1
80°-90°	139.7	0.4
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°	33613.0	100.0
0°-180°	33613.0	100.0



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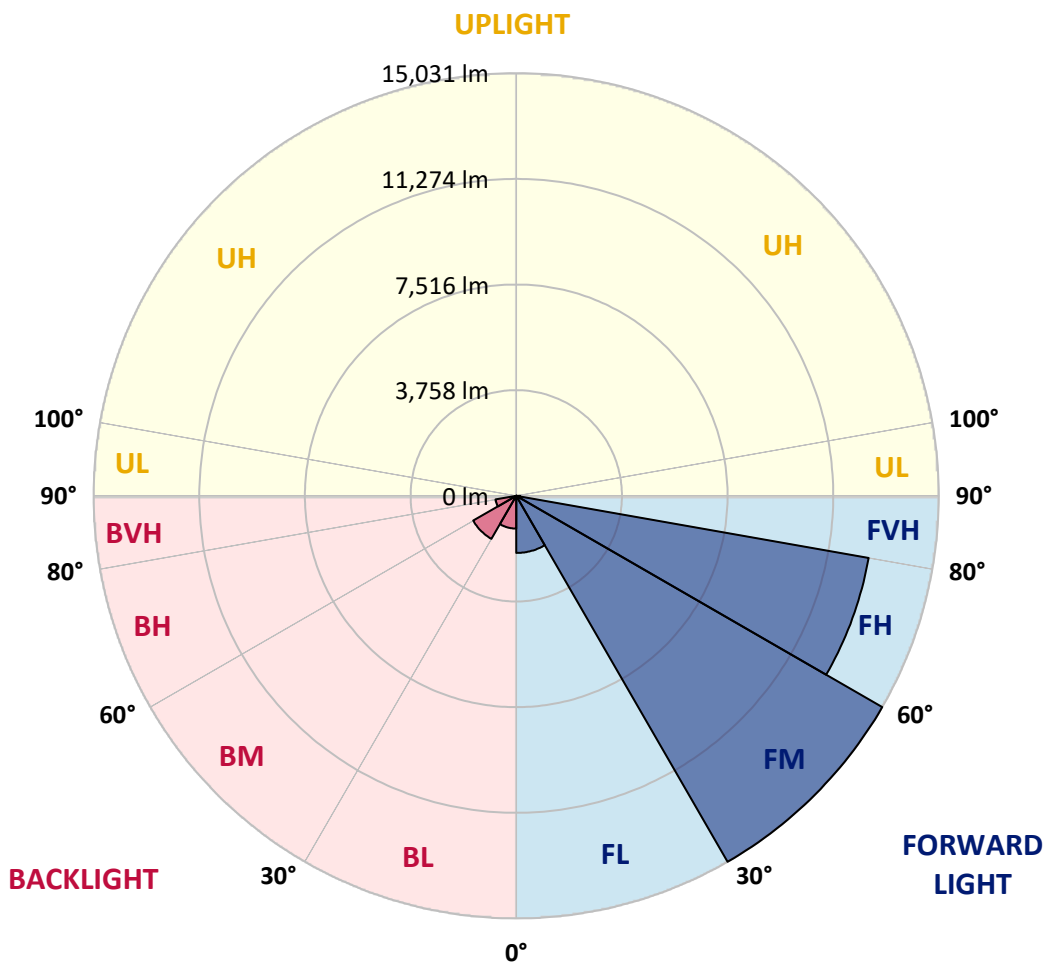
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2031.6	6.0			
FM (30°-60°)	15031.5	44.7			
FH (60°-80°)	12727.0	37.9			G5
FVH (80°-90°)	137.1	0.4			G2/225
BL (0°-30°)	1164.9	3.5	B3/2500		
BM (30°-60°)	1767.8	5.3	B2/2500		
BH (60°-80°)	750.7	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1
2.5°	3900.3	3917.8	3930.5	3938.5	3948.0	3968.7	3975.0	3984.6	3989.3	3989.3	4000.5
5°	3746.2	3765.2	3792.3	3814.5	3859.0	3916.2	3957.6	3973.4	4002.1	4027.5	4041.8
7.5°	3603.1	3625.4	3657.2	3709.6	3785.9	3878.1	3963.9	3986.2	4041.8	4095.8	4122.9
10°	3510.9	3528.4	3569.7	3644.4	3744.6	3873.3	3994.1	4021.1	4116.5	4207.1	4257.9
12.5°	3479.2	3495.0	3538.0	3622.2	3746.2	3897.2	4064.0	4103.8	4243.6	4375.6	4447.1
15°	3525.2	3528.4	3574.5	3654.0	3776.4	3956.0	4180.1	4227.7	4404.2	4575.8	4664.8
17.5°	3703.3	3688.9	3712.8	3747.8	3844.7	4033.8	4302.5	4374.0	4609.2	4811.1	4895.3
20°	4148.3	4148.3	4094.2	3998.9	4000.5	4154.6	4467.7	4548.8	4836.5	5070.1	5146.4
22.5°	4909.6	4895.3	4787.2	4553.6	4339.0	4362.8	4669.6	4774.5	5109.9	5359.4	5384.8
25°	5825.1	5807.6	5640.7	5311.7	4939.8	4699.8	4943.0	5063.8	5435.7	5656.6	5604.2
27.5°	6794.6	6780.3	6615.0	6206.5	5677.3	5237.0	5268.8	5383.2	5767.9	5985.6	5818.7
30°	7733.9	7738.7	7575.0	7155.4	6556.2	5922.0	5682.0	5748.8	6090.5	6311.4	6073.0
32.5°	8627.2	8633.5	8492.1	8023.2	7463.7	6718.3	6254.2	6236.7	6465.6	6683.3	6410.0
35°	9423.4	9439.3	9342.4	8978.4	8385.6	7605.2	6996.4	6955.1	6998.0	7244.4	6926.5
37.5°	10191.1	10200.6	10127.5	9820.8	9324.9	8579.5	7934.2	7875.4	7783.2	7972.3	7608.4
40°	11031.9	11008.0	10923.8	10645.7	10219.7	9655.5	8941.8	8840.1	8679.6	8848.1	8504.8
42.5°	11813.9	11786.8	11801.1	11486.4	11127.2	10761.7	10116.4	9941.6	9847.8	10041.7	9604.6
45°	12791.3	12777.0	12824.7	12551.3	12260.5	11995.0	11462.6	11271.9	11230.6	11457.8	10934.9
47.5°	13756.1	13791.0	13938.9	13822.8	13705.2	13471.6	12888.3	12802.5	12827.9	13102.8	12338.4
50°	14560.3	14601.6	15006.9	15140.4	15310.5	15173.8	14588.9	14536.5	14636.6	14884.5	13848.3
52.5°	15142.0	15226.3	15730.1	16345.2	16965.0	17057.2	16473.9	16426.2	16561.3	16599.5	15014.9
55°	15545.7	15620.4	16191.0	17316.3	18578.3	18975.6	18613.2	18428.9	18403.4	18026.7	16241.9
57.5°	15617.2	15609.3	16429.4	17944.1	19843.4	20868.6	20639.7	20458.5	19937.2	19345.9	17648.5
60°	15213.5	15259.6	16211.7	18161.8	20638.1	22300.6	22318.1	22082.8	21270.7	20628.6	19012.2
62.5°	13970.6	14158.2	15119.8	17591.3	20628.6	22877.5	23548.2	23368.6	22397.5	21679.1	20394.9
65°	11955.3	12022.1	12939.1	15636.3	19234.7	22635.9	24656.0	24589.3	23413.1	22699.5	21105.4
67.5°	8730.5	8585.8	9549.0	12312.9	16284.8	21227.8	25450.7	25535.0	24196.7	22909.3	20348.8
68°	7967.6	8010.5	8760.7	11491.2	15512.3	20730.3	25503.2	25631.9	24274.6	22772.6	19935.6
70°	4749.1	4831.7	5500.8	7911.9	11801.1	17915.5	24937.4	25231.4	23810.5	21362.8	17243.2
72.5°	1212.7	1311.2	1943.8	3541.1	6740.6	12622.9	21051.3	21548.8	20673.1	17330.6	11640.6
75°	499.1	524.5	694.6	1166.6	2511.2	5686.8	13875.3	14940.2	14331.4	10375.5	5260.8
77.5°	344.9	362.4	446.6	646.9	1087.1	1927.9	6802.5	7571.8	6821.6	3541.1	1147.5
80°	247.9	262.2	319.5	430.7	624.6	688.2	2217.2	2563.7	2036.0	777.2	284.5
82.5°	147.8	158.9	238.4	306.8	379.9	329.0	551.5	626.2	589.7	386.2	127.2
85°	73.1	85.8	160.5	219.3	205.0	138.3	168.5	187.5	232.0	235.2	68.3
87.5°	4.8	9.5	93.8	131.9	57.2	31.8	49.3	60.4	82.6	116.0	28.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1	3994.1
2.5°	4005.2	4006.8	3995.7	3990.9	3994.1	3975.0	3967.1	3970.3	3970.3	3975.0	3967.1
5°	4045.0	4045.0	4025.9	4000.5	3986.2	3949.6	3925.8	3919.4	3914.6	3911.5	3905.1
7.5°	4130.8	4121.3	4087.9	4032.3	3984.6	3905.1	3844.7	3812.9	3797.0	3790.7	3785.9
10°	4269.1	4251.6	4196.0	4092.7	3983.0	3841.5	3709.6	3615.8	3538.0	3506.2	3487.1
12.5°	4455.0	4429.6	4335.8	4164.2	3971.9	3711.2	3425.1	3150.2	2894.3	2789.4	2736.9
15°	4669.6	4633.0	4485.2	4224.6	3906.7	3417.2	2795.7	2314.1	1959.7	1826.2	1769.0
17.5°	4887.3	4839.7	4615.6	4262.7	3711.2	2808.4	1961.3	1481.3	1244.5	1180.9	1158.7
20°	5106.7	5036.7	4728.4	4234.1	3269.4	2024.9	1293.8	1082.4	1014.0	995.0	988.6
22.5°	5314.9	5206.8	4830.1	4122.9	2589.1	1358.9	1023.6	956.8	934.6	923.4	920.3
25°	5496.1	5345.1	4919.1	3779.5	1832.6	1026.7	921.8	899.6	871.0	850.3	851.9
27.5°	5666.1	5483.4	4973.2	3213.7	1222.2	877.3	853.5	823.3	770.8	740.7	740.7
30°	5871.2	5667.7	5012.9	2473.1	899.6	775.6	756.5	710.5	638.9	599.2	599.2
32.5°	6179.5	5947.5	4987.5	1735.6	745.4	681.8	637.3	573.8	495.9	457.7	456.2
35°	6651.6	6379.8	4806.3	1138.0	658.0	592.8	521.3	443.4	375.1	343.3	341.7
37.5°	7287.3	6958.3	4399.4	813.8	589.7	510.2	424.4	338.5	287.7	267.0	265.4
40°	8112.2	7630.6	3817.7	659.6	526.1	430.7	327.4	262.2	227.3	211.4	213.0
42.5°	9102.4	8350.6	3120.0	569.0	464.1	354.4	255.9	206.6	184.4	173.2	170.1
45°	10202.2	9061.1	2388.8	507.0	402.1	286.1	200.3	163.7	146.2	139.9	139.9
47.5°	11411.7	9752.4	1748.3	453.0	335.4	220.9	160.5	133.5	119.2	114.4	112.8
50°	12510.0	10232.4	1260.4	395.8	275.0	174.8	130.3	111.3	101.7	95.4	95.4
52.5°	13425.5	10383.4	928.2	333.8	222.5	139.9	108.1	95.4	85.8	81.1	81.1
55°	14231.3	10321.4	689.8	275.0	179.6	114.4	92.2	81.1	73.1	68.3	68.3
57.5°	15003.7	10121.2	515.0	224.1	144.6	92.2	77.9	68.3	60.4	57.2	57.2
60°	15634.7	9787.4	383.0	181.2	116.0	74.7	65.2	55.6	49.3	44.5	44.5
62.5°	16146.5	9418.7	281.3	149.4	92.2	58.8	50.9	46.1	36.6	31.8	31.8
65°	16149.7	8806.8	211.4	124.0	71.5	46.1	38.1	36.6	23.8	19.1	17.5
67.5°	14981.5	7592.5	162.1	106.5	55.6	35.0	28.6	30.2	12.7	7.9	6.4
68°	14557.1	7284.1	152.6	104.9	52.4	33.4	27.0	30.2	11.1	6.4	4.8
70°	12273.2	5794.9	122.4	101.7	46.1	25.4	22.3	30.2	9.5	4.8	3.2
72.5°	7849.9	3363.1	90.6	81.1	35.0	19.1	14.3	27.0	9.5	3.2	1.6
75°	3340.9	1042.6	62.0	57.2	20.7	14.3	9.5	17.5	6.4	1.6	0.0
77.5°	704.1	235.2	36.6	35.0	14.3	9.5	6.4	4.8	1.6	0.0	0.0
80°	181.2	68.3	19.1	17.5	7.9	4.8	3.2	0.0	0.0	0.0	0.0
82.5°	57.2	27.0	11.1	7.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.6	15.9	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)