

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: P322291

Luminaire Tested: **GAN-SA7C-750-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322291
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-SA7C-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA 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: 36457 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 391
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

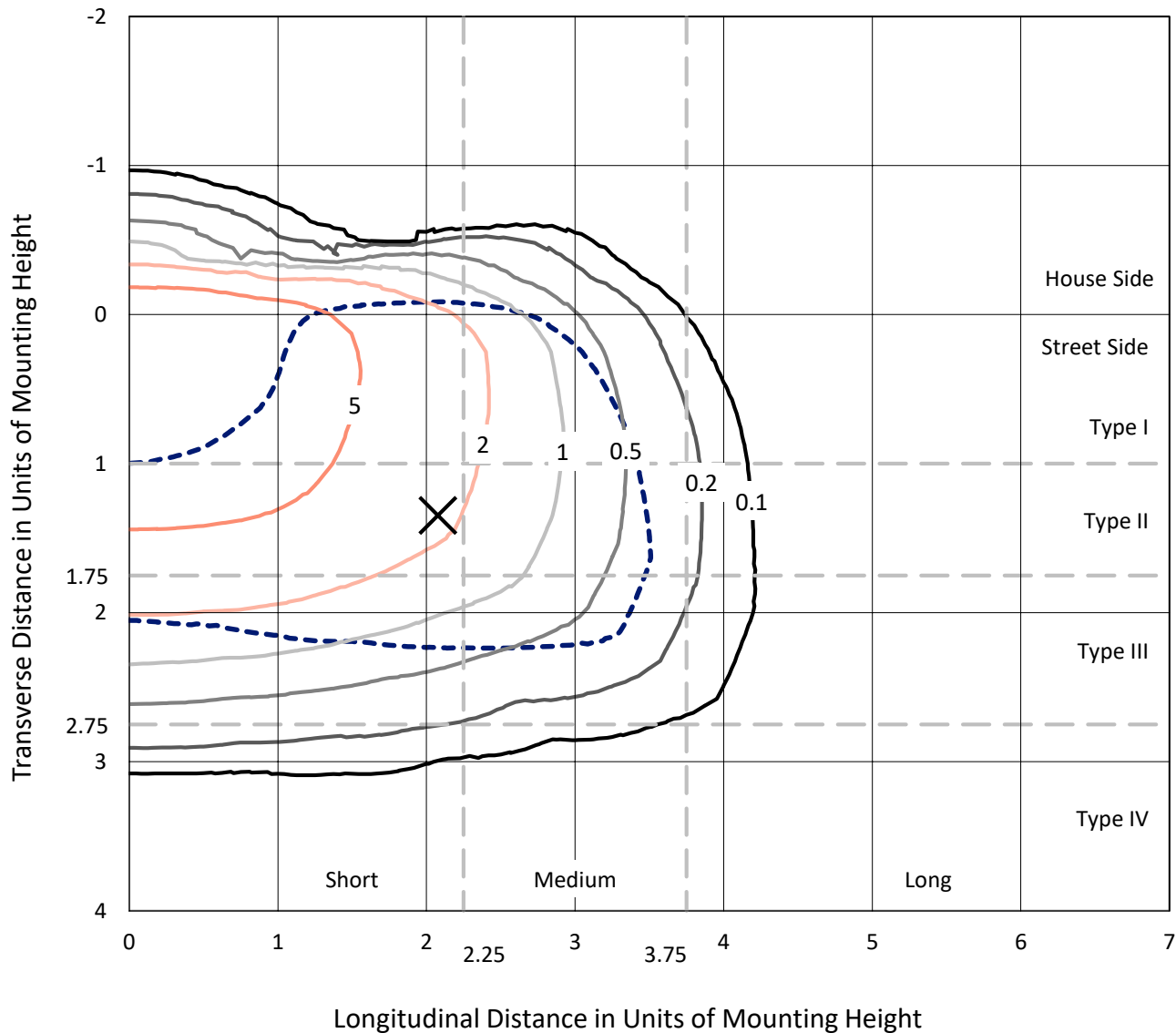




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Iso-Footcandle Lines of Horizontal Illumination

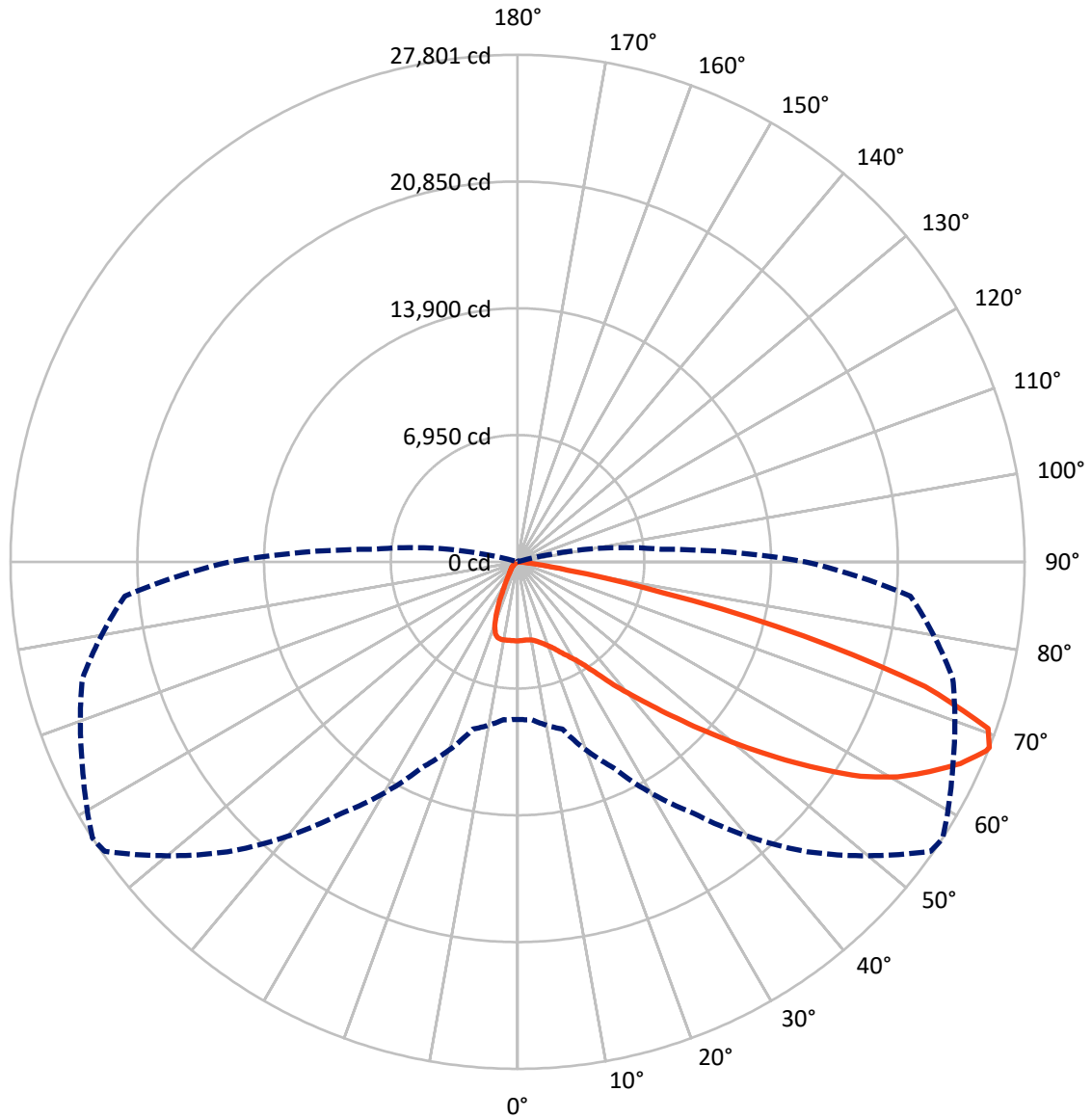
x Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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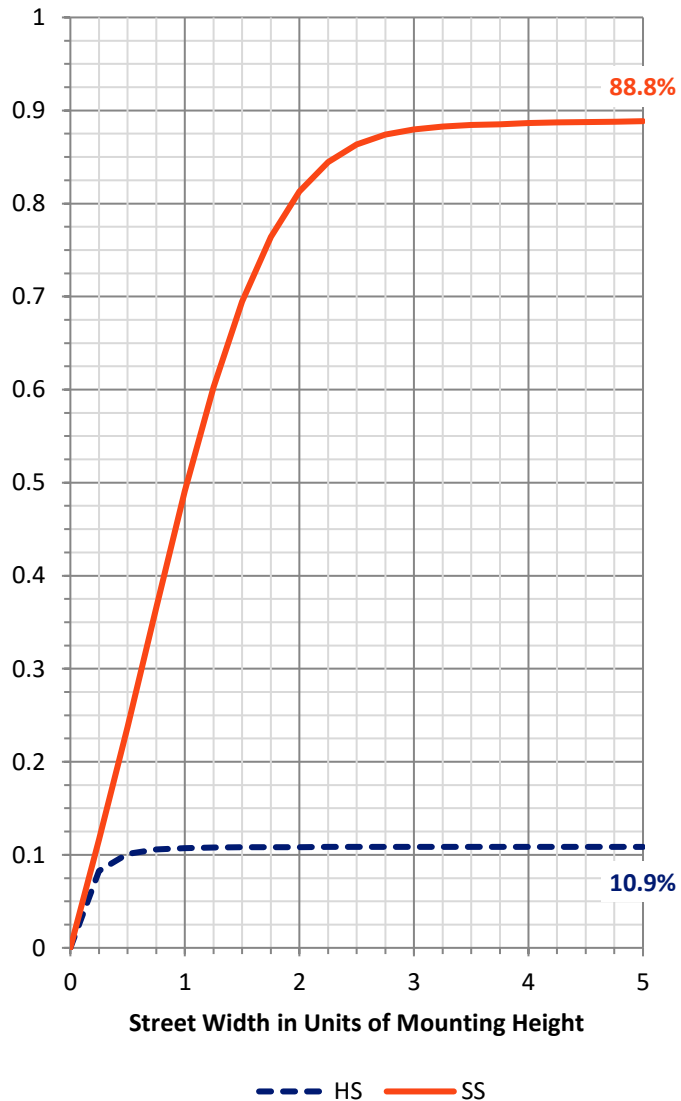
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3997.7	0.0	3997.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	32459.3	0.0	32459.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	36457.0	0.0	36457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.4	1.1
10°-20°	1123.4	3.1
20°-30°	1938.0	5.3
30°-40°	3345.0	9.2
40°-50°	5721.6	15.7
50°-60°	9154.1	25.1
60°-70°	10576.5	29.0
70°-80°	4041.4	11.1
80°-90°	151.5	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°	36457.0	100.0
0°-180°	36457.0	100.0

Coefficient of Utilization



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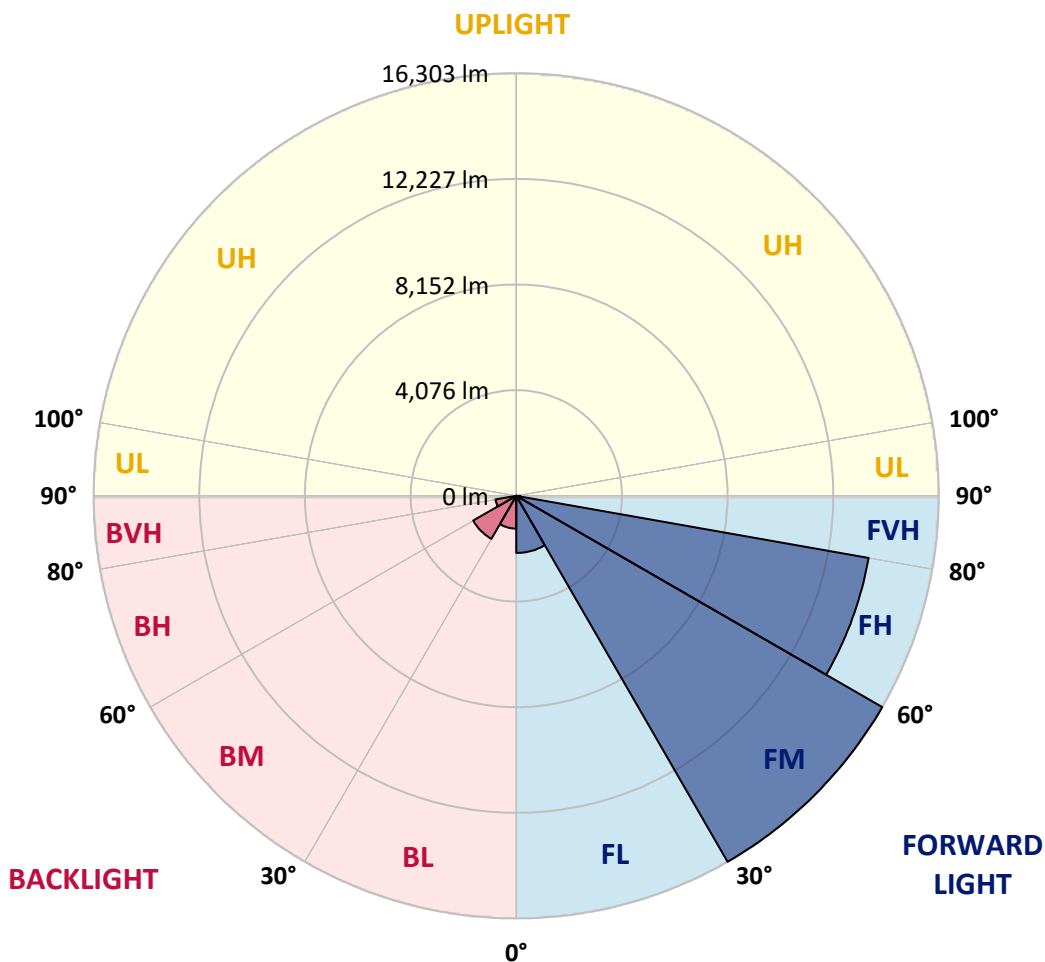
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2203.5	6.0			
FM (30°-60°)	16303.3	44.7			
FH (60°-80°)	13803.8	37.9			G5
FVH (80°-90°)	148.7	0.4			G2/225
BL (0°-30°)	1263.4	3.5	B3/2500		
BM (30°-60°)	1917.4	5.3	B2/2500		
BH (60°-80°)	814.2	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.8	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°	4332.1	4332.1	4332.1	4332.1	4332.1	4332.1	4332.1	4332.1	4332.1	4332.1	4332.1
2.5°	4230.3	4249.3	4263.1	4271.7	4282.1	4304.5	4311.4	4321.7	4326.9	4326.9	4338.9
5°	4063.1	4083.8	4113.1	4137.3	4185.5	4247.6	4292.4	4309.6	4340.7	4368.3	4383.8
7.5°	3908.0	3932.1	3966.6	4023.5	4106.2	4206.2	4299.3	4323.4	4383.8	4442.4	4471.7
10°	3808.0	3827.0	3871.8	3952.8	4061.4	4201.0	4332.1	4361.4	4464.8	4563.0	4618.2
12.5°	3773.5	3790.8	3837.3	3928.7	4063.1	4226.9	4407.9	4451.0	4602.7	4745.8	4823.4
15°	3823.5	3827.0	3877.0	3963.1	4095.9	4290.7	4533.7	4585.5	4776.8	4963.0	5059.5
17.5°	4016.6	4001.1	4026.9	4064.9	4170.0	4375.1	4666.5	4744.1	4999.2	5218.1	5309.5
20°	4499.3	4499.3	4440.7	4337.2	4338.9	4506.2	4845.8	4933.7	5245.7	5499.1	5581.8
22.5°	5325.0	5309.5	5192.3	4938.9	4706.1	4732.0	5064.7	5178.5	5542.2	5812.8	5840.4
25°	6317.9	6299.0	6118.0	5761.1	5357.7	5097.4	5361.2	5492.2	5895.6	6135.2	6078.3
27.5°	7369.5	7354.0	7174.7	6731.7	6157.6	5680.1	5714.6	5838.7	6255.9	6492.0	6311.0
30°	8388.3	8393.5	8215.9	7760.8	7110.9	6423.1	6162.8	6235.2	6605.8	6845.4	6586.9
32.5°	9357.1	9364.0	9210.6	8702.0	8095.2	7286.7	6783.4	6764.4	7012.7	7248.8	6952.3
35°	10220.7	10238.0	10132.8	9738.1	9095.1	8248.7	7588.4	7543.6	7590.1	7857.3	7512.6
37.5°	11053.4	11063.7	10984.4	10651.7	10113.9	9305.4	8605.5	8541.7	8441.7	8646.9	8252.1
40°	11965.3	11939.4	11848.1	11546.4	11084.4	10472.4	9698.4	9588.1	9414.0	9596.7	9224.4
42.5°	12813.4	12784.1	12799.6	12458.3	12068.7	11672.2	10972.4	10782.7	10681.0	10891.3	10417.3
45°	13873.6	13858.1	13909.8	13613.3	13297.8	13009.9	12432.5	12225.6	12180.8	12427.3	11860.1
47.5°	14920.0	14957.9	15118.2	14992.4	14864.8	14611.4	13978.8	13885.7	13913.3	14211.5	13382.3
50°	15792.3	15837.1	16276.7	16421.5	16605.9	16457.7	15823.3	15766.4	15875.0	16143.9	15020.0
52.5°	16423.2	16514.6	17061.0	17728.1	18400.5	18500.4	17867.8	17816.1	17962.6	18004.0	16285.3
55°	16861.0	16942.1	17560.9	18781.4	20150.2	20581.1	20188.1	19988.1	19960.5	19552.0	17616.1
57.5°	16938.6	16930.0	17819.5	19462.3	21522.4	22634.2	22386.0	22189.5	21624.1	20982.8	19141.7
60°	16500.8	16550.8	17583.3	19698.5	22384.3	24187.4	24206.4	23951.3	23070.4	22373.9	20620.8
62.5°	15152.7	15356.1	16399.1	19079.6	22373.9	24813.2	25540.7	25345.9	24292.6	23513.4	22120.5
65°	12966.9	13039.3	14033.9	16959.3	20862.1	24551.2	26742.2	26669.8	25394.1	24620.1	22891.1
67.5°	9469.1	9312.3	10356.9	13354.7	17662.6	23023.8	27604.1	27695.5	26244.0	24847.7	22070.5
68°	8641.7	8688.2	9501.9	12463.5	16824.8	22484.3	27661.0	27800.6	26328.5	24699.4	21622.3
70°	5150.9	5240.5	5966.3	8581.4	12799.6	19431.3	27047.3	27366.2	25825.1	23170.4	18702.1
72.5°	1315.3	1422.2	2108.3	3840.8	7310.9	13690.9	22832.5	23372.1	22422.2	18796.9	12625.5
75°	541.3	568.9	753.3	1265.3	2723.7	6168.0	15049.3	16204.3	15544.0	11253.3	5706.0
77.5°	374.1	393.0	484.4	701.6	1179.1	2091.0	7378.1	8212.5	7398.8	3840.8	1244.6
80°	268.9	284.4	346.5	467.2	677.5	746.4	2404.8	2780.6	2208.3	843.0	308.6
82.5°	160.3	172.4	258.6	332.7	412.0	356.8	598.2	679.2	639.6	418.9	137.9
85°	79.3	93.1	174.1	237.9	222.4	150.0	182.7	203.4	251.7	255.1	74.1
87.5°	5.2	10.3	101.7	143.1	62.1	34.5	53.4	65.5	89.6	125.8	31.0
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°	4332.1	4332.1	4332.1	4332.1	4332.1	4332.1	4332.1	4332.1	4332.1	4332.1	4332.1
2.5°	4344.1	4345.8	4333.8	4328.6	4332.1	4311.4	4302.7	4306.2	4306.2	4311.4	4302.7
5°	4387.2	4387.2	4366.5	4338.9	4323.4	4283.8	4257.9	4251.0	4245.9	4242.4	4235.5
7.5°	4480.3	4470.0	4433.8	4373.4	4321.7	4235.5	4170.0	4135.5	4118.3	4111.4	4106.2
10°	4630.3	4611.3	4551.0	4438.9	4320.0	4166.6	4023.5	3921.8	3837.3	3802.8	3782.1
12.5°	4832.0	4804.4	4702.7	4516.5	4307.9	4025.2	3714.9	3416.7	3139.1	3025.4	2968.5
15°	5064.7	5025.0	4864.7	4582.0	4237.2	3706.3	3032.3	2509.9	2125.5	1980.7	1918.7
17.5°	5300.9	5249.1	5006.1	4623.4	4025.2	3046.1	2127.2	1606.6	1349.8	1280.8	1256.7
20°	5538.8	5462.9	5128.5	4592.4	3546.0	2196.2	1403.2	1173.9	1099.8	1079.1	1072.2
22.5°	5764.6	5647.4	5238.8	4471.7	2808.2	1473.9	1110.2	1037.8	1013.6	1001.6	998.1
25°	5961.1	5797.3	5335.3	4099.3	1987.6	1113.6	999.8	975.7	944.7	922.3	924.0
27.5°	6145.6	5947.3	5393.9	3485.6	1325.6	951.6	925.7	893.0	836.1	803.3	803.3
30°	6367.9	6147.3	5437.0	2682.3	975.7	841.2	820.6	770.6	693.0	649.9	649.9
32.5°	6702.4	6450.7	5409.5	1882.5	808.5	739.5	691.3	622.3	537.8	496.5	494.7
35°	7214.3	6919.6	5212.9	1234.3	713.7	643.0	565.4	481.0	406.8	372.4	370.6
37.5°	7903.9	7547.0	4771.6	882.6	639.6	553.4	460.3	367.2	312.0	289.6	287.9
40°	8798.6	8276.2	4140.7	715.4	570.6	467.2	355.1	284.4	246.5	229.3	231.0
42.5°	9872.5	9057.1	3383.9	617.1	503.4	384.4	277.5	224.1	200.0	187.9	184.5
45°	11065.4	9827.7	2591.0	549.9	436.1	310.3	217.2	177.6	158.6	151.7	151.7
47.5°	12377.3	10577.6	1896.2	491.3	363.7	239.6	174.1	144.8	129.3	124.1	122.4
50°	13568.5	11098.2	1367.0	429.2	298.2	189.6	141.4	120.7	110.3	103.4	103.4
52.5°	14561.4	11262.0	1006.7	362.0	241.3	151.7	117.2	103.4	93.1	87.9	87.9
55°	15435.4	11194.7	748.2	298.2	194.8	124.1	100.0	87.9	79.3	74.1	74.1
57.5°	16273.2	10977.5	558.5	243.1	156.9	100.0	84.5	74.1	65.5	62.1	62.1
60°	16957.6	10615.5	415.4	196.5	125.8	81.0	70.7	60.3	53.4	48.3	48.3
62.5°	17512.7	10215.6	305.1	162.0	100.0	63.8	55.2	50.0	39.6	34.5	34.5
65°	17516.1	9551.9	229.3	134.5	77.6	50.0	41.4	39.6	25.9	20.7	19.0
67.5°	16249.1	8234.9	175.8	115.5	60.3	37.9	31.0	32.8	13.8	8.6	6.9
68°	15788.8	7900.4	165.5	113.8	56.9	36.2	29.3	32.8	12.1	6.9	5.2
70°	13311.6	6285.2	132.7	110.3	50.0	27.6	24.1	32.8	10.3	5.2	3.4
72.5°	8514.1	3647.7	98.3	87.9	37.9	20.7	15.5	29.3	10.3	3.4	1.7
75°	3623.5	1130.9	67.2	62.1	22.4	15.5	10.3	19.0	6.9	1.7	0.0
77.5°	763.7	255.1	39.6	37.9	15.5	10.3	6.9	5.2	1.7	0.0	0.0
80°	196.5	74.1	20.7	19.0	8.6	5.2	3.4	0.0	0.0	0.0	0.0
82.5°	62.1	29.3	12.1	8.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.0	17.2	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.2	5.2	1.7	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)