

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: P383514

Luminaire Tested: **GAN-SA8A-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383514
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-SA8A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 25354.9 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

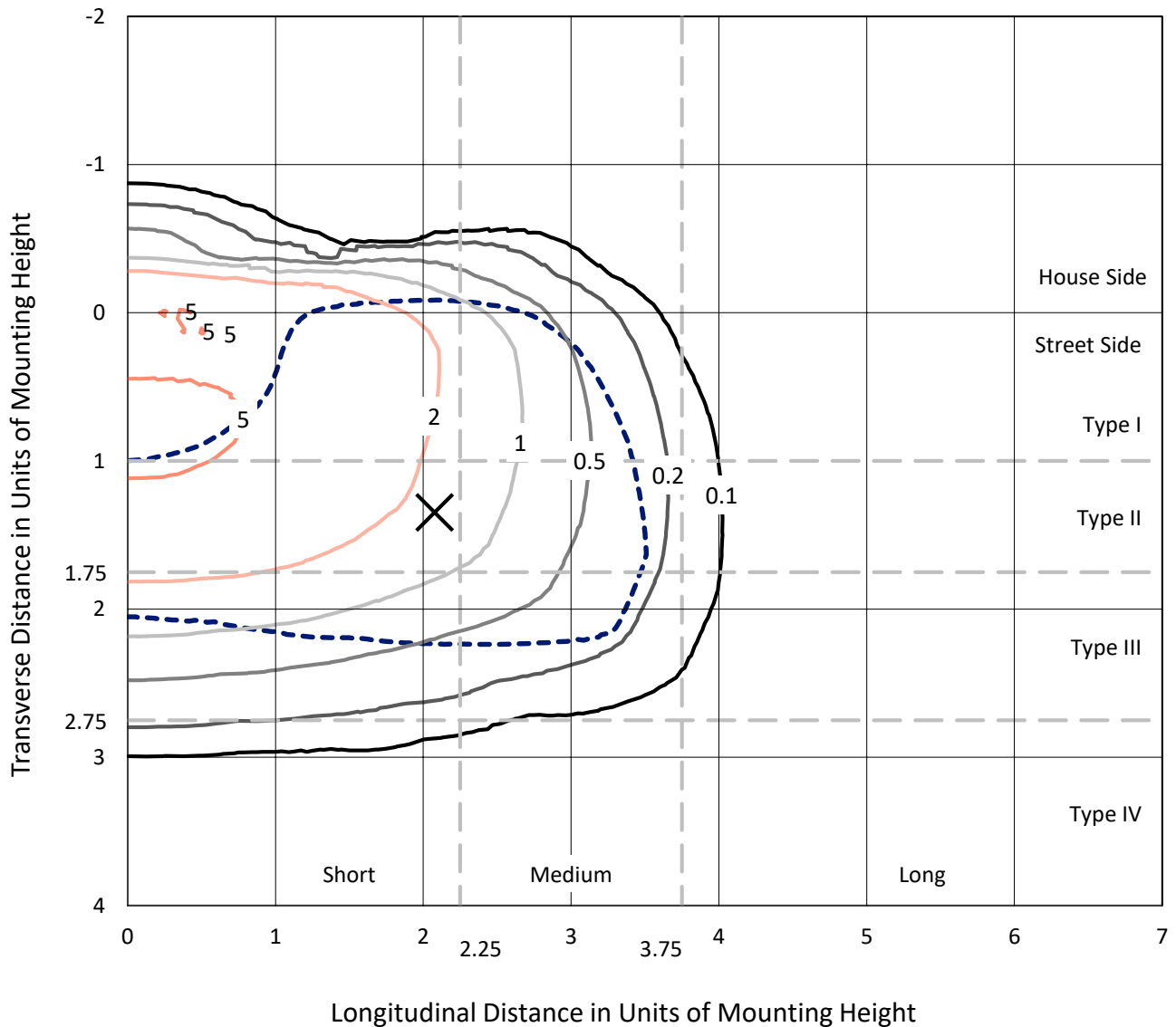
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

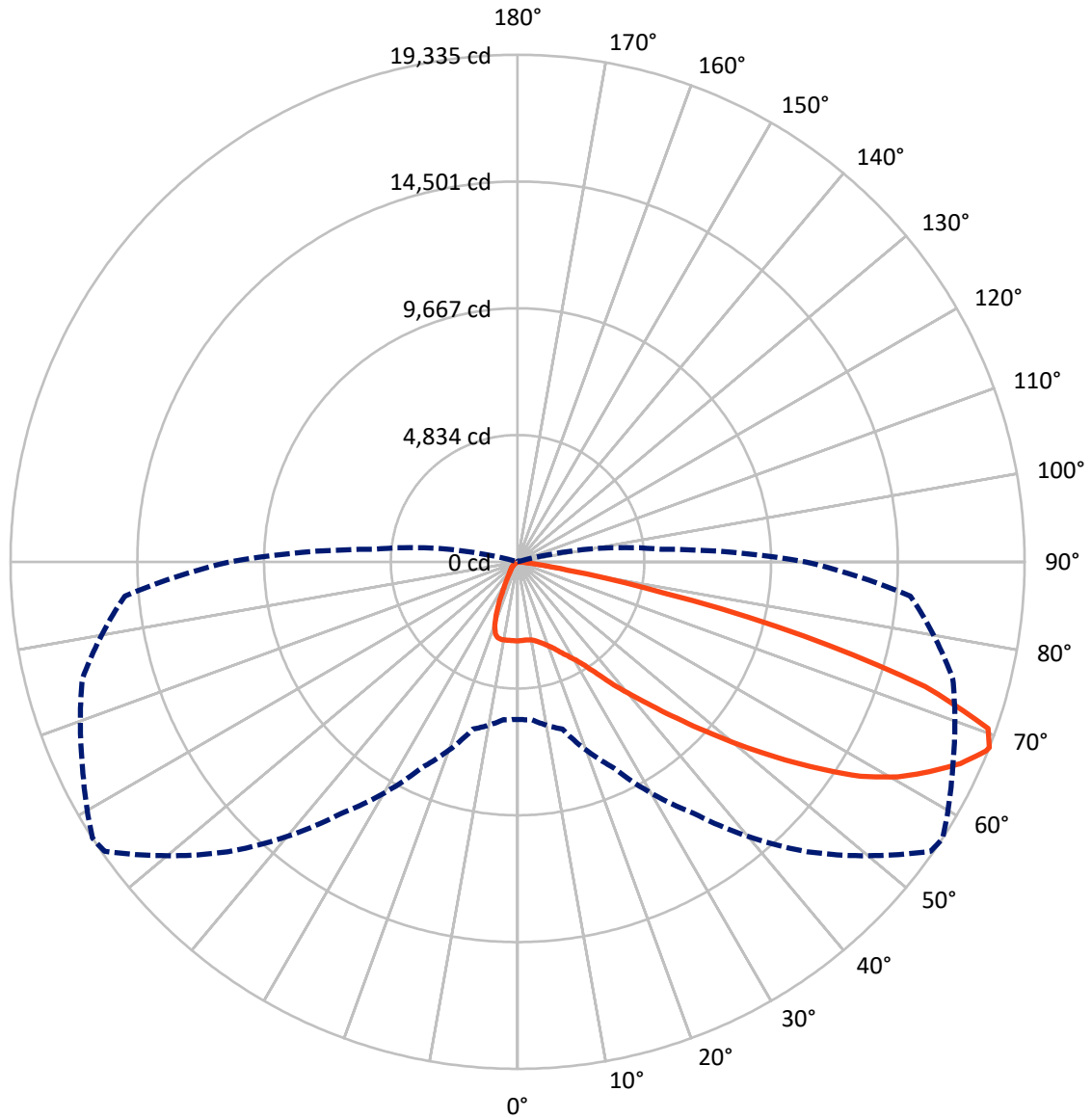
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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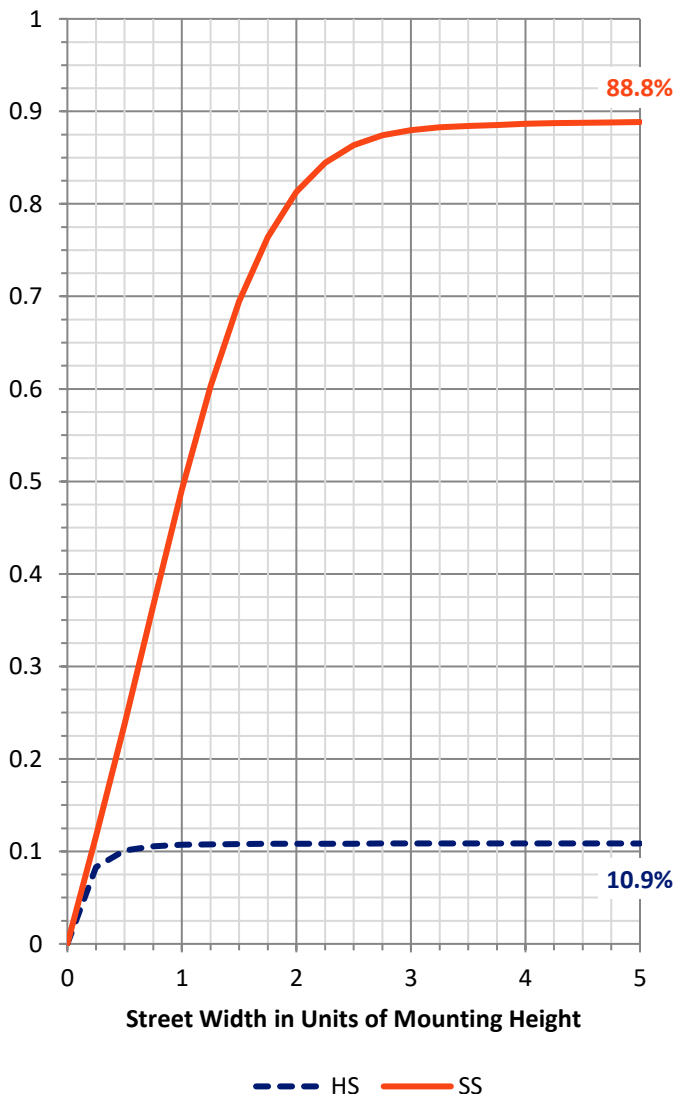
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2780.3	0.0	2780.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	22574.5	0.0	22574.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	25354.9	0.0	25354.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.0	1.1
10°-20°	781.3	3.1
20°-30°	1347.9	5.3
30°-40°	2326.3	9.2
40°-50°	3979.2	15.7
50°-60°	6366.4	25.1
60°-70°	7355.7	29.0
70°-80°	2810.7	11.1
80°-90°	105.4	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°	25354.9	100.0
0°-180°	25354.9	100.0



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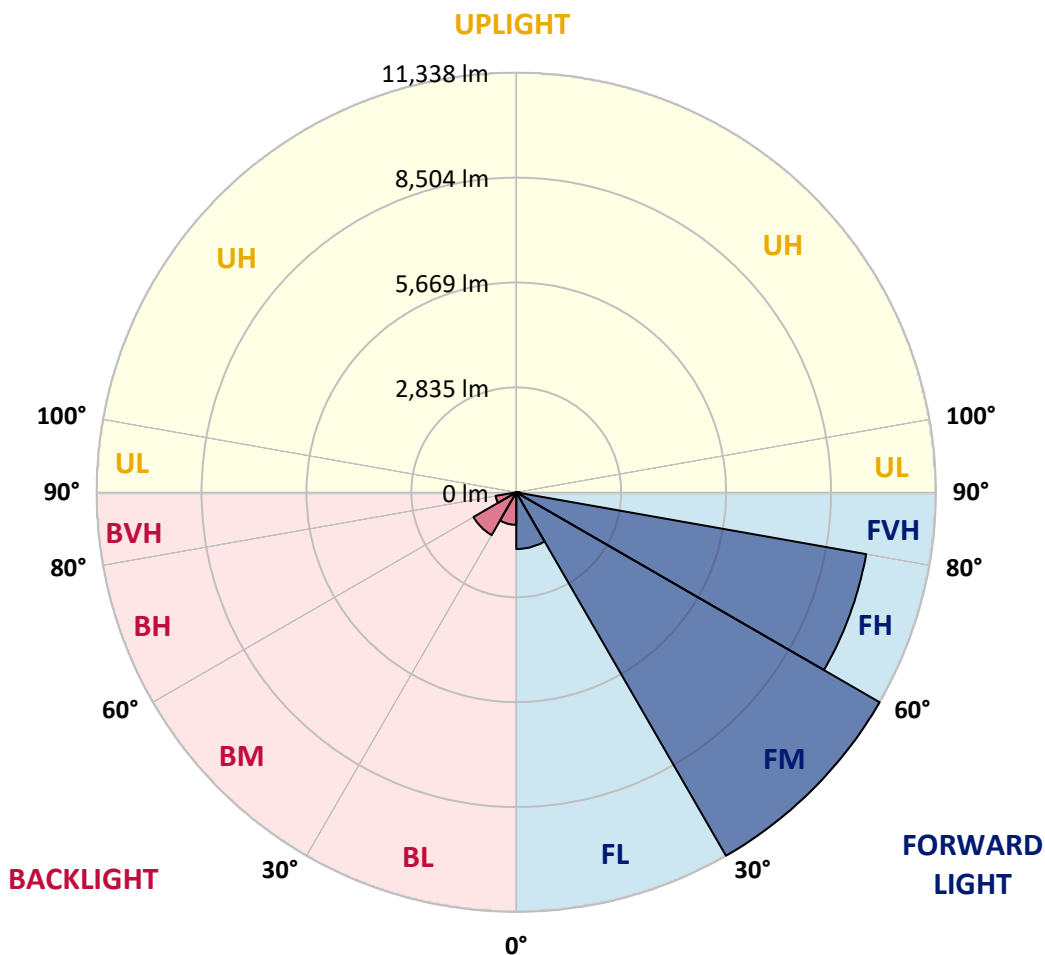
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1532.5	6.0			
FM (30°-60°)	11338.5	44.7			
FH (60°-80°)	9600.2	37.9			G4/12000
FVH (80°-90°)	103.4	0.4			G2/225
BL (0°-30°)	878.7	3.5	B2/1000		
BM (30°-60°)	1333.5	5.3	B2/2500		
BH (60°-80°)	566.2	2.2	B2/1000		G2/1000
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8
2.5°	2942.1	2955.2	2964.8	2970.9	2978.1	2993.6	2998.5	3005.6	3009.3	3009.3	3017.7
5°	2825.8	2840.2	2860.6	2877.4	2910.9	2954.1	2985.2	2997.3	3018.9	3038.0	3048.8
7.5°	2717.9	2734.7	2758.7	2798.2	2855.8	2925.3	2990.1	3006.8	3048.8	3089.6	3110.0
10°	2648.4	2661.5	2692.7	2749.1	2824.6	2921.7	3012.8	3033.2	3105.1	3173.5	3211.9
12.5°	2624.4	2636.4	2668.7	2732.3	2825.8	2939.7	3065.5	3095.5	3201.1	3300.6	3354.5
15°	2659.2	2661.5	2696.3	2756.3	2848.6	2984.0	3153.1	3189.1	3322.2	3451.7	3518.7
17.5°	2793.4	2782.6	2800.6	2827.0	2900.1	3042.8	3245.4	3299.4	3476.8	3629.0	3692.6
20°	3129.2	3129.2	3088.4	3016.4	3017.7	3133.9	3370.1	3431.3	3648.2	3824.5	3882.0
22.5°	3703.4	3692.6	3611.1	3434.8	3273.0	3291.0	3522.4	3601.5	3854.5	4042.6	4061.8
25°	4393.9	4380.8	4254.8	4006.7	3726.2	3545.1	3728.6	3819.7	4100.2	4266.9	4227.3
27.5°	5125.3	5114.5	4989.8	4681.7	4282.4	3950.3	3974.4	4060.6	4350.8	4515.0	4389.2
30°	5833.8	5837.4	5713.9	5397.4	4945.5	4467.1	4286.1	4336.4	4594.2	4760.9	4581.0
32.5°	6507.6	6512.4	6405.7	6052.0	5630.0	5067.7	4717.6	4704.5	4877.1	5041.3	4835.1
35°	7108.3	7120.3	7047.2	6772.5	6325.4	5736.7	5277.5	5246.4	5278.7	5464.6	5224.8
37.5°	7687.3	7694.5	7639.3	7407.9	7033.9	6471.6	5984.9	5940.6	5871.0	6013.7	5739.1
40°	8321.5	8303.5	8240.0	8030.2	7708.9	7283.3	6745.0	6668.3	6547.2	6674.3	6415.3
42.5°	8911.4	8891.0	8901.8	8664.4	8393.4	8117.7	7631.0	7499.1	7428.3	7574.6	7244.9
45°	9648.7	9637.9	9673.9	9467.7	9248.3	9048.0	8646.4	8502.6	8471.4	8642.8	8248.4
47.5°	10376.4	10402.8	10514.3	10426.8	10338.0	10161.9	9721.8	9657.1	9676.3	9883.7	9307.0
50°	10983.1	11014.2	11320.0	11420.7	11549.0	11445.8	11004.7	10965.1	11040.6	11227.7	10446.0
52.5°	11421.9	11485.4	11865.5	12329.4	12797.0	12866.5	12426.6	12390.6	12492.5	12521.3	11325.9
55°	11726.4	11782.8	12213.1	13062.0	14013.9	14313.6	14040.3	13901.2	13882.0	13597.9	12251.5
57.5°	11780.4	11774.4	12393.0	13535.6	14968.2	15741.5	15568.9	15432.2	15039.0	14593.0	13312.6
60°	11475.8	11510.6	12228.7	13699.8	15567.7	16821.7	16834.9	16657.5	16044.8	15560.5	14341.2
62.5°	10538.3	10679.7	11405.1	13269.3	15560.5	17256.9	17762.8	17627.4	16894.8	16352.9	15384.2
65°	9018.1	9068.4	9760.2	11794.7	14509.0	17074.7	18598.4	18548.1	17660.9	17122.6	15920.1
67.5°	6585.6	6476.4	7203.0	9287.8	12283.9	16012.5	19197.9	19261.4	18252.0	17280.9	15349.5
68°	6010.1	6042.4	6608.3	8668.1	11701.3	15637.2	19237.5	19334.6	18310.8	17177.8	15037.8
70°	3582.3	3644.7	4149.4	5968.1	8901.8	13514.0	18810.6	19032.4	17960.7	16114.4	13006.8
72.5°	914.8	989.1	1466.3	2671.1	5084.5	9521.6	15879.3	16254.7	15594.0	13072.8	8780.7
75°	376.4	395.6	523.9	880.0	1894.3	4289.7	10466.4	11269.6	10810.4	7826.4	3968.4
77.5°	260.2	273.3	336.8	487.9	820.0	1454.2	5131.2	5711.5	5145.7	2671.1	865.6
80°	187.1	197.9	241.0	324.9	471.2	519.2	1672.5	1933.8	1535.7	586.2	214.6
82.5°	111.5	119.9	179.8	231.4	286.5	248.2	416.0	472.4	444.8	291.3	95.9
85°	55.1	64.7	121.1	165.4	154.6	104.3	127.1	141.5	175.0	177.5	51.5
87.5°	3.6	7.2	70.7	99.5	43.1	23.9	37.2	45.6	62.3	87.6	21.6
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°	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8
2.5°	3021.2	3022.4	3014.0	3010.4	3012.8	2998.5	2992.4	2994.8	2994.8	2998.5	2992.4
5°	3051.2	3051.2	3036.8	3017.7	3006.8	2979.3	2961.3	2956.5	2952.9	2950.5	2945.6
7.5°	3115.9	3108.8	3083.5	3041.6	3005.6	2945.6	2900.1	2876.2	2864.1	2859.4	2855.8
10°	3220.3	3207.0	3165.1	3087.1	3004.4	2897.8	2798.2	2727.5	2668.7	2644.8	2630.4
12.5°	3360.5	3341.4	3270.6	3141.1	2996.0	2799.4	2583.6	2376.2	2183.2	2104.1	2064.5
15°	3522.4	3494.8	3383.3	3186.6	2946.9	2577.6	2108.8	1745.6	1478.3	1377.6	1334.3
17.5°	3686.6	3650.6	3481.6	3215.4	2799.4	2118.4	1479.5	1117.4	938.7	890.7	874.0
20°	3852.0	3799.3	3566.7	3193.9	2466.1	1527.4	975.9	816.4	764.9	750.5	745.7
22.5°	4009.1	3927.6	3643.5	3110.0	1953.0	1025.1	772.1	721.8	705.0	696.5	694.2
25°	4145.8	4031.9	3710.5	2851.0	1382.3	774.5	695.4	678.5	657.0	641.4	642.6
27.5°	4274.0	4136.2	3751.3	2424.2	922.0	661.8	643.8	621.1	581.5	558.6	558.6
30°	4428.8	4275.2	3781.3	1865.5	678.5	585.1	570.7	535.9	482.0	452.0	452.0
32.5°	4661.3	4486.2	3762.1	1309.2	562.3	514.3	480.8	432.8	374.0	345.3	344.1
35°	5017.4	4812.4	3625.5	858.4	496.3	447.1	393.2	334.5	282.9	259.0	257.8
37.5°	5497.0	5248.8	3318.5	613.8	444.8	384.8	320.1	255.3	217.0	201.4	200.2
40°	6119.1	5755.9	2879.8	497.5	396.8	324.9	247.0	197.9	171.4	159.5	160.7
42.5°	6866.1	6299.0	2353.5	429.2	350.1	267.4	193.0	155.8	139.1	130.7	128.3
45°	7695.7	6835.0	1802.0	382.5	303.3	215.8	151.1	123.5	110.3	105.5	105.5
47.5°	8608.1	7356.4	1318.8	341.7	253.0	166.7	121.1	100.7	89.9	86.4	85.1
50°	9436.5	7718.5	950.7	298.6	207.4	131.9	98.3	83.9	76.8	71.9	71.9
52.5°	10127.0	7832.4	700.2	251.8	167.9	105.5	81.5	71.9	64.7	61.1	61.1
55°	10734.9	7785.6	520.4	207.4	135.4	86.4	69.5	61.1	55.1	51.5	51.5
57.5°	11317.6	7634.6	388.5	169.1	109.1	69.5	58.8	51.5	45.6	43.1	43.1
60°	11793.6	7382.8	289.0	136.7	87.6	56.4	49.2	41.9	37.2	33.5	33.5
62.5°	12179.6	7104.6	212.2	112.7	69.5	44.3	38.4	34.7	27.6	23.9	23.9
65°	12181.9	6643.1	159.5	93.5	53.9	34.7	28.8	27.6	18.0	14.3	13.2
67.5°	11300.8	5727.2	122.3	80.3	41.9	26.4	21.6	22.8	9.6	6.0	4.8
68°	10980.7	5494.5	115.1	79.1	39.6	25.2	20.4	22.8	8.4	4.8	3.6
70°	9257.9	4371.2	92.3	76.8	34.7	19.2	16.8	22.8	7.2	3.6	2.4
72.5°	5921.4	2536.9	68.4	61.1	26.4	14.3	10.8	20.4	7.2	2.4	1.2
75°	2520.1	786.5	46.8	43.1	15.6	10.8	7.2	13.2	4.8	1.2	0.0
77.5°	531.1	177.5	27.6	26.4	10.8	7.2	4.8	3.6	1.2	0.0	0.0
80°	136.7	51.5	14.3	13.2	6.0	3.6	2.4	0.0	0.0	0.0	0.0
82.5°	43.1	20.4	8.4	6.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.6	12.0	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	3.6	1.2	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)