

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: P323191

Luminaire Tested: **GAN-SA7A-740-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27303 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

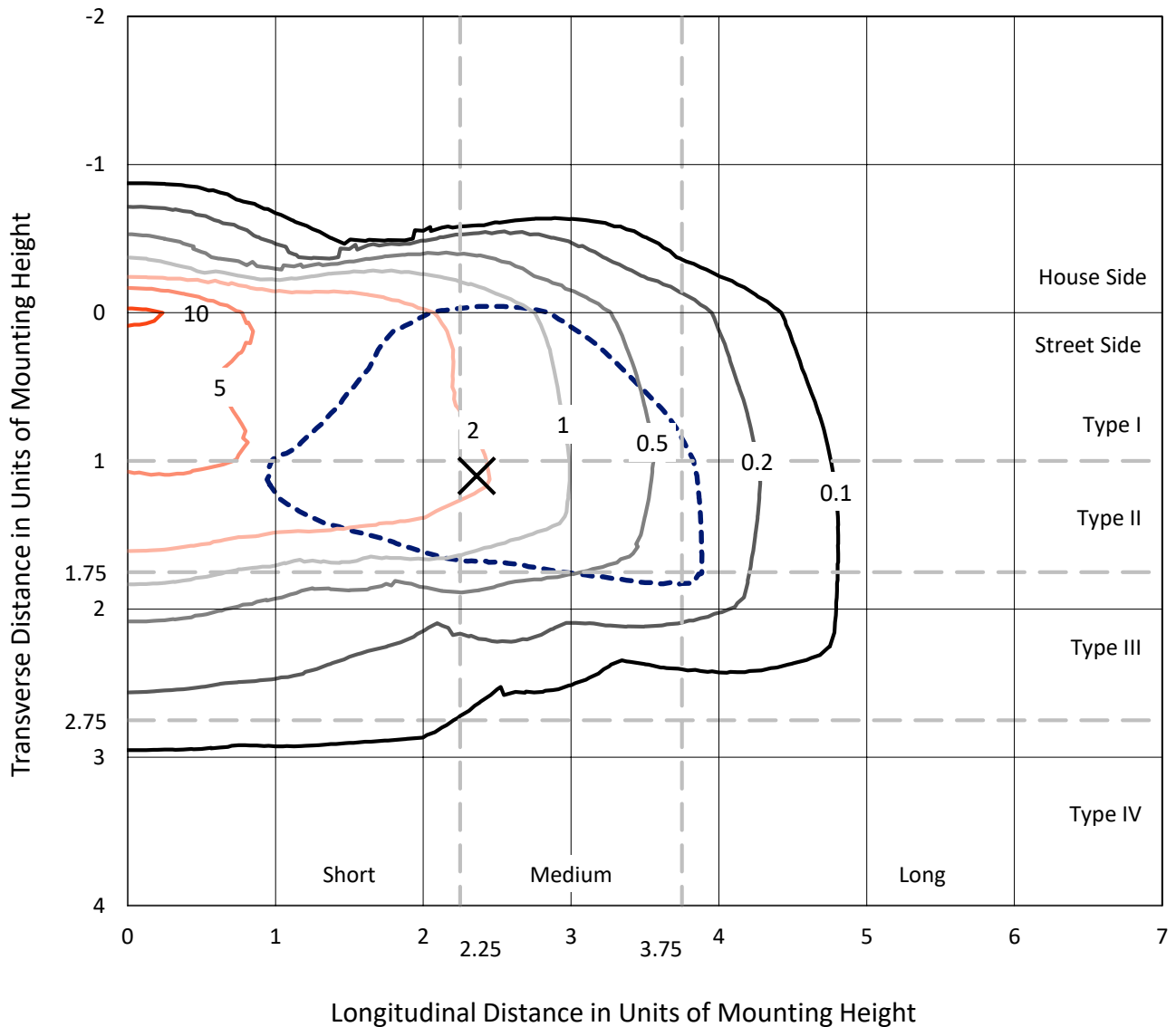
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

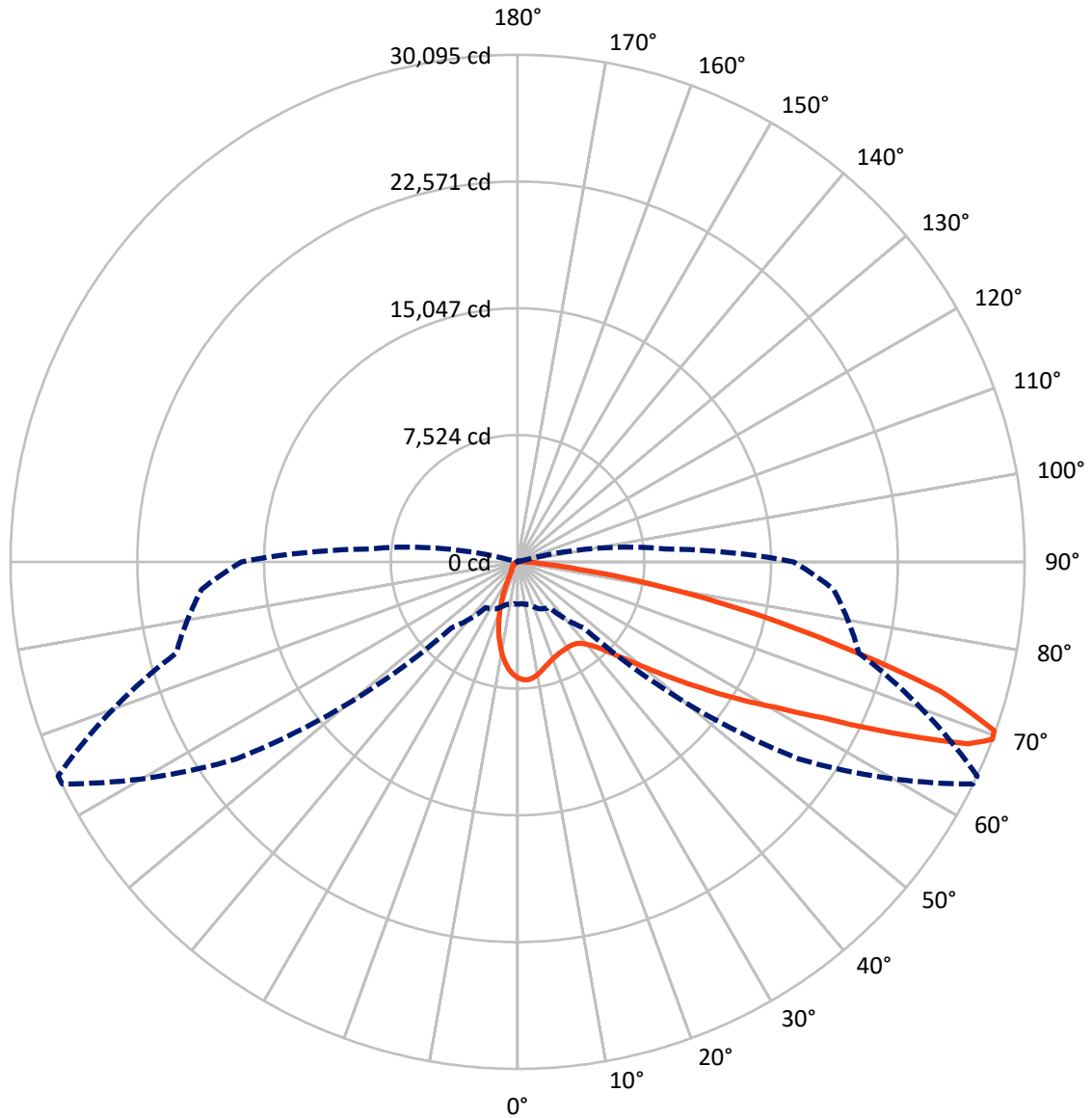
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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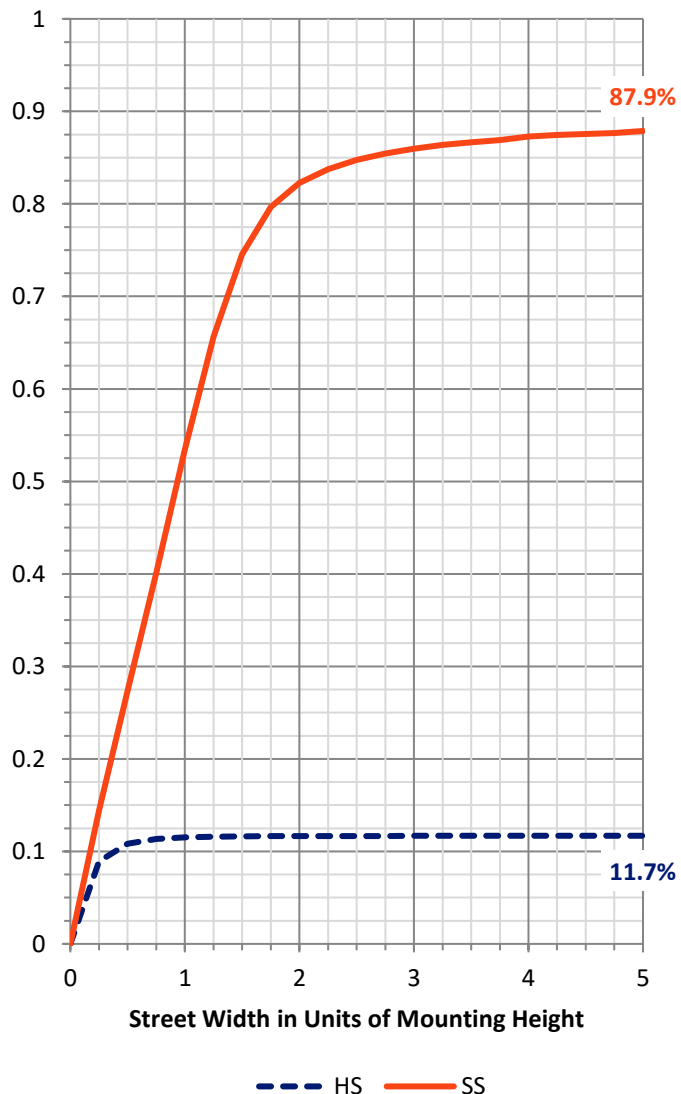
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3218.4	0.0	3218.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	24084.6	0.0	24084.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	27303.0	0.0	27303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.9	2.1
10°-20°	1263.0	4.6
20°-30°	1749.2	6.4
30°-40°	2439.0	8.9
40°-50°	3791.0	13.9
50°-60°	6086.0	22.3
60°-70°	6884.3	25.2
70°-80°	4043.2	14.8
80°-90°	470.3	1.7
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°	27303.0	100.0
0°-180°	27303.0	100.0

Coefficient of Utilization

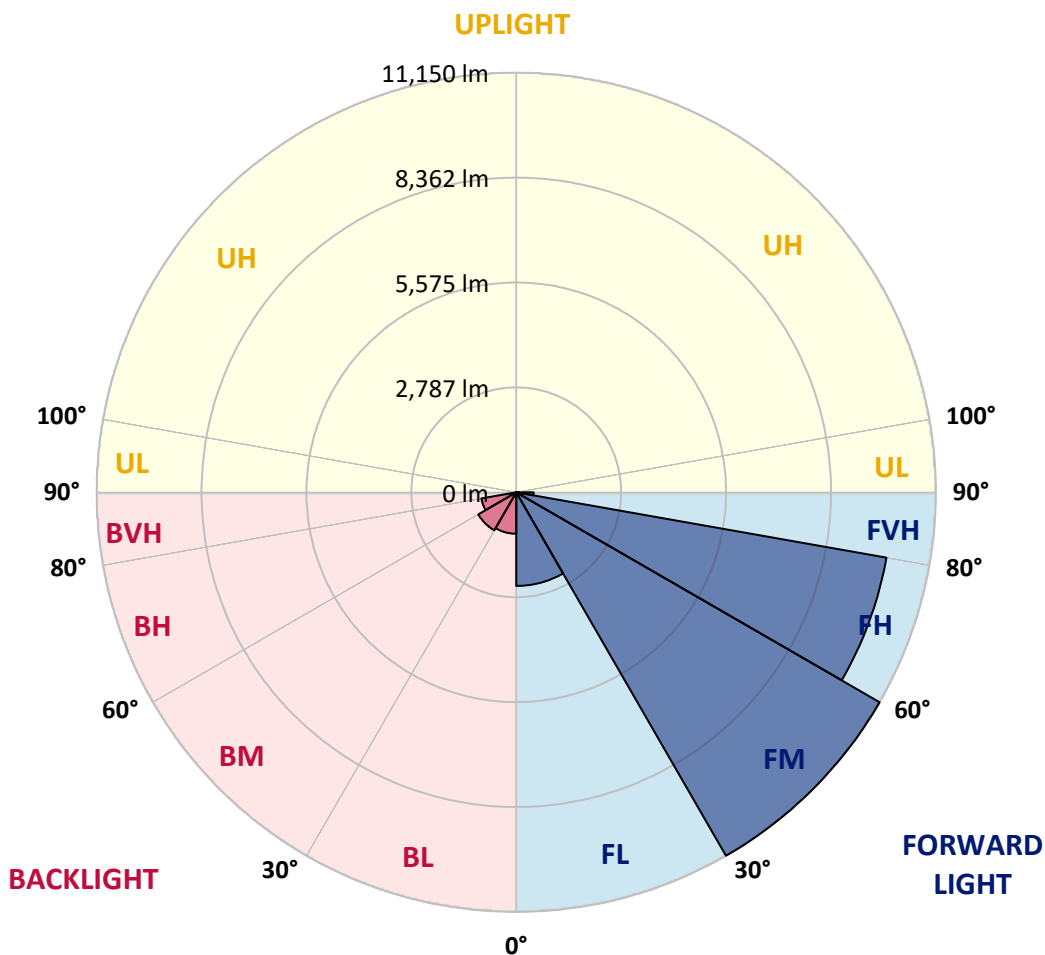


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2487.9	9.1			
FM (30°-60°)	11149.8	40.8			
FH (60°-80°)	9987.2	36.6			G4/12000
FVH (80°-90°)	459.8	1.7			G3/500
BL (0°-30°)	1101.2	4.0	B3/2500		
BM (30°-60°)	1166.3	4.3	B2/2500		
BH (60°-80°)	940.3	3.4	B2/1000		G2/1000
BVH (80°-90°)	10.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6899.5	6899.5	6899.5	6899.5	6899.5	6899.5	6899.5	6899.5	6899.5	6899.5	6899.5
2.5°	6960.7	6943.4	6957.3	6987.3	7002.3	7002.3	7013.9	7000.0	7004.6	6971.1	6922.6
5°	6525.2	6498.6	6536.7	6621.1	6725.1	6814.0	6945.7	7015.0	7022.0	7023.1	6966.5
7.5°	6056.1	6031.9	6088.5	6187.8	6321.9	6487.1	6717.0	6918.0	6929.6	7038.2	6996.6
10°	5674.9	5657.6	5723.4	5829.7	5986.8	6171.7	6453.6	6733.2	6766.7	7007.0	6991.9
12.5°	5372.2	5358.3	5420.7	5543.2	5703.8	5908.3	6202.9	6527.5	6572.6	6936.5	6968.8
15°	5151.5	5149.2	5201.2	5319.1	5497.0	5687.6	5989.1	6336.9	6388.9	6860.2	6965.4
17.5°	5036.0	5039.5	5077.6	5178.1	5330.6	5520.1	5808.9	6176.3	6232.9	6792.1	6982.7
20°	5024.4	5027.9	5048.7	5105.3	5228.9	5396.5	5662.2	6041.1	6100.0	6741.2	7010.4
22.5°	5126.1	5123.8	5129.6	5123.8	5193.1	5320.2	5565.1	5937.1	6005.3	6707.7	7032.4
25°	5321.4	5317.9	5315.6	5272.8	5226.6	5294.8	5524.7	5878.2	5942.9	6683.5	7045.1
27.5°	5592.9	5590.5	5587.1	5516.6	5378.0	5335.2	5529.3	5856.3	5910.6	6663.8	7042.8
30°	5949.9	5966.0	5961.4	5863.2	5647.2	5458.8	5577.8	5844.7	5892.1	6625.7	7018.5
32.5°	6369.2	6401.6	6427.0	6321.9	6051.5	5703.8	5689.9	5857.4	5892.1	6596.8	6974.6
35°	6804.8	6846.4	6940.0	6903.0	6547.1	6072.3	5882.8	5933.7	5962.6	6613.0	6953.8
37.5°	7233.4	7283.1	7486.4	7593.9	7196.4	6559.9	6183.2	6122.0	6137.0	6711.2	6976.9
40°	7731.3	7806.4	8114.9	8288.2	7971.6	7212.6	6632.6	6445.5	6451.3	6927.2	7084.4
42.5°	8385.2	8462.7	8796.5	9068.0	8845.1	8037.5	7242.6	6940.0	6934.2	7331.6	7337.4
45°	9182.4	9263.3	9608.7	9910.3	9809.7	9014.9	8023.6	7662.0	7655.1	7969.3	7816.8
47.5°	10085.9	10165.6	10474.0	10784.8	10893.4	10156.3	9018.4	8647.5	8631.3	8855.5	8557.4
50°	10861.1	10913.1	11197.3	11615.5	12105.3	11558.9	10255.7	9898.7	9881.4	10032.7	9644.5
52.5°	11143.0	11173.0	11461.8	12047.6	13269.9	13458.2	11881.2	11421.4	11408.7	11474.5	11092.1
55°	10572.2	10626.5	10981.2	11850.0	13900.7	15604.8	13933.0	13306.9	13211.0	13068.9	12605.6
57.5°	9017.2	9103.8	9485.1	10640.4	13606.1	17307.7	16948.4	15439.6	15298.6	14429.8	13836.0
60°	6756.3	6862.5	7179.1	8425.7	12033.7	17914.2	20243.4	17816.0	17498.3	15513.5	14967.1
62.5°	4636.3	4689.4	4904.3	5716.5	8862.4	16920.7	22999.9	20998.9	20419.0	16691.9	16190.5
65°	3541.0	3559.5	3647.3	3926.9	5277.5	13744.7	24096.3	25198.5	24497.2	18101.4	17460.2
67.5°	2853.6	2838.6	2959.9	3359.6	3534.1	8385.2	22817.4	29171.6	28843.5	19985.7	18738.0
69°	2516.3	2495.5	2619.1	3083.5	3319.2	5543.2	20398.2	30073.9	30094.7	20980.4	18825.8
70°	2264.4	2278.3	2400.7	2919.5	3246.4	4350.9	18087.5	29844.0	30008.0	21352.5	18299.0
72.5°	1512.3	1549.3	1795.4	2423.8	3121.6	3292.6	10921.2	25609.8	26240.6	20514.9	15699.5
75°	852.6	880.3	1172.6	1827.7	2941.4	3135.5	5768.5	18867.4	19477.4	17155.2	12106.5
77.5°	418.2	433.2	663.1	1179.6	2459.7	2987.6	3271.8	12815.9	13512.5	11197.3	6847.5
80°	176.8	184.8	331.6	727.8	1758.4	2851.3	2429.6	7887.3	7974.0	4386.7	1824.2
82.5°	68.2	70.5	139.8	454.0	1117.2	2222.8	2032.2	3739.7	3649.6	826.0	415.9
85°	8.1	9.2	50.8	272.7	621.6	1143.8	1650.9	1611.7	1491.5	164.1	213.7
87.5°	0.0	0.0	3.5	83.2	184.8	536.1	858.4	668.9	603.1	53.1	110.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6899.5	6899.5	6899.5	6899.5	6899.5	6899.5	6899.5	6899.5	6899.5	6899.5	6899.5
2.5°	6882.2	6870.6	6808.2	6718.1	6632.6	6526.4	6424.7	6363.5	6314.9	6282.6	6320.7
5°	6900.7	6849.8	6660.4	6417.8	6179.8	5911.7	5662.2	5450.8	5367.6	5275.1	5316.7
7.5°	6894.9	6799.0	6458.2	6026.1	5589.4	5137.7	4710.2	4380.9	4210.0	4042.4	4085.2
10°	6866.0	6704.3	6187.8	5547.8	4893.9	4244.6	3638.1	3177.1	2919.5	2686.1	2719.6
12.5°	6802.5	6577.2	5869.0	5000.2	4125.6	3269.5	2559.0	1968.6	1652.1	1512.3	1529.6
15°	6764.3	6453.6	5531.6	4445.6	3305.3	2277.1	1564.3	1163.4	1019.0	972.8	978.5
17.5°	6745.9	6334.6	5182.7	3811.4	2466.6	1449.9	1010.9	891.9	860.7	852.6	854.9
20°	6727.4	6214.4	4823.4	3184.0	1699.5	975.1	830.7	796.0	784.5	774.1	776.4
22.5°	6696.2	6098.9	4437.5	2548.6	1146.1	791.4	748.6	715.1	690.9	678.2	680.5
25°	6658.1	5977.6	4043.6	1898.2	836.4	705.9	665.5	618.1	589.2	566.1	567.3
27.5°	6596.8	5828.5	3636.9	1381.8	702.4	632.0	577.7	525.7	477.1	450.6	450.6
30°	6511.3	5659.9	3185.2	988.9	629.6	559.2	493.3	428.6	376.6	352.4	350.1
32.5°	6416.6	5484.3	2728.8	749.8	571.9	491.0	415.9	347.7	301.5	281.9	280.7
35°	6335.7	5294.8	2273.7	628.5	514.1	425.2	343.1	285.4	248.4	232.2	231.1
37.5°	6283.7	5105.3	1830.0	561.5	462.1	363.9	287.7	235.7	209.1	196.4	195.2
40°	6275.6	4964.4	1424.5	510.6	413.6	309.6	240.3	199.9	175.6	161.7	160.6
42.5°	6380.8	4883.5	1092.9	467.9	363.9	262.3	204.5	171.0	145.6	131.7	130.6
45°	6656.9	4908.9	841.1	429.8	314.2	221.8	173.3	142.1	119.0	108.6	106.3
47.5°	7160.6	5084.5	668.9	391.7	266.9	188.3	147.9	117.8	98.2	87.8	86.6
50°	8057.1	5497.0	559.2	350.1	223.0	160.6	122.5	95.9	79.7	70.5	69.3
52.5°	9247.1	6231.7	499.1	309.6	184.8	136.3	100.5	76.3	62.4	55.5	54.3
55°	10559.5	7121.3	459.8	265.7	151.3	113.2	79.7	60.1	48.5	42.7	40.4
57.5°	11840.8	7891.9	422.8	223.0	125.9	92.4	63.5	47.4	38.1	32.3	31.2
60°	13018.0	8600.1	380.1	179.1	102.8	72.8	49.7	37.0	30.0	24.3	24.3
62.5°	14278.5	9147.8	321.2	139.8	84.3	55.5	40.4	33.5	24.3	20.8	19.6
65°	15614.0	9554.4	251.9	108.6	65.9	41.6	33.5	34.7	19.6	15.0	13.9
67.5°	16600.7	9473.5	186.0	85.5	50.8	32.3	32.3	37.0	17.3	11.6	10.4
69°	16383.5	8816.2	156.0	73.9	43.9	27.7	30.0	37.0	16.2	10.4	9.2
70°	15753.8	8088.3	137.5	65.9	39.3	25.4	28.9	35.8	15.0	10.4	9.2
72.5°	13119.7	6092.0	107.4	49.7	31.2	20.8	24.3	31.2	15.0	10.4	8.1
75°	9868.7	3899.2	82.0	35.8	23.1	16.2	18.5	23.1	15.0	9.2	8.1
77.5°	5369.9	1406.0	58.9	24.3	16.2	12.7	12.7	17.3	13.9	6.9	4.6
80°	1380.6	353.5	37.0	16.2	12.7	9.2	8.1	11.6	8.1	1.2	0.0
82.5°	340.8	79.7	19.6	11.6	9.2	3.5	3.5	5.8	3.5	0.0	0.0
85°	187.2	39.3	12.7	8.1	4.6	0.0	0.0	1.2	0.0	0.0	0.0
87.5°	95.9	11.6	3.5	2.3	1.2	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)