

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: P323509

Luminaire Tested: **GAN-SA5A-740-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-740-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19897 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 162  
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

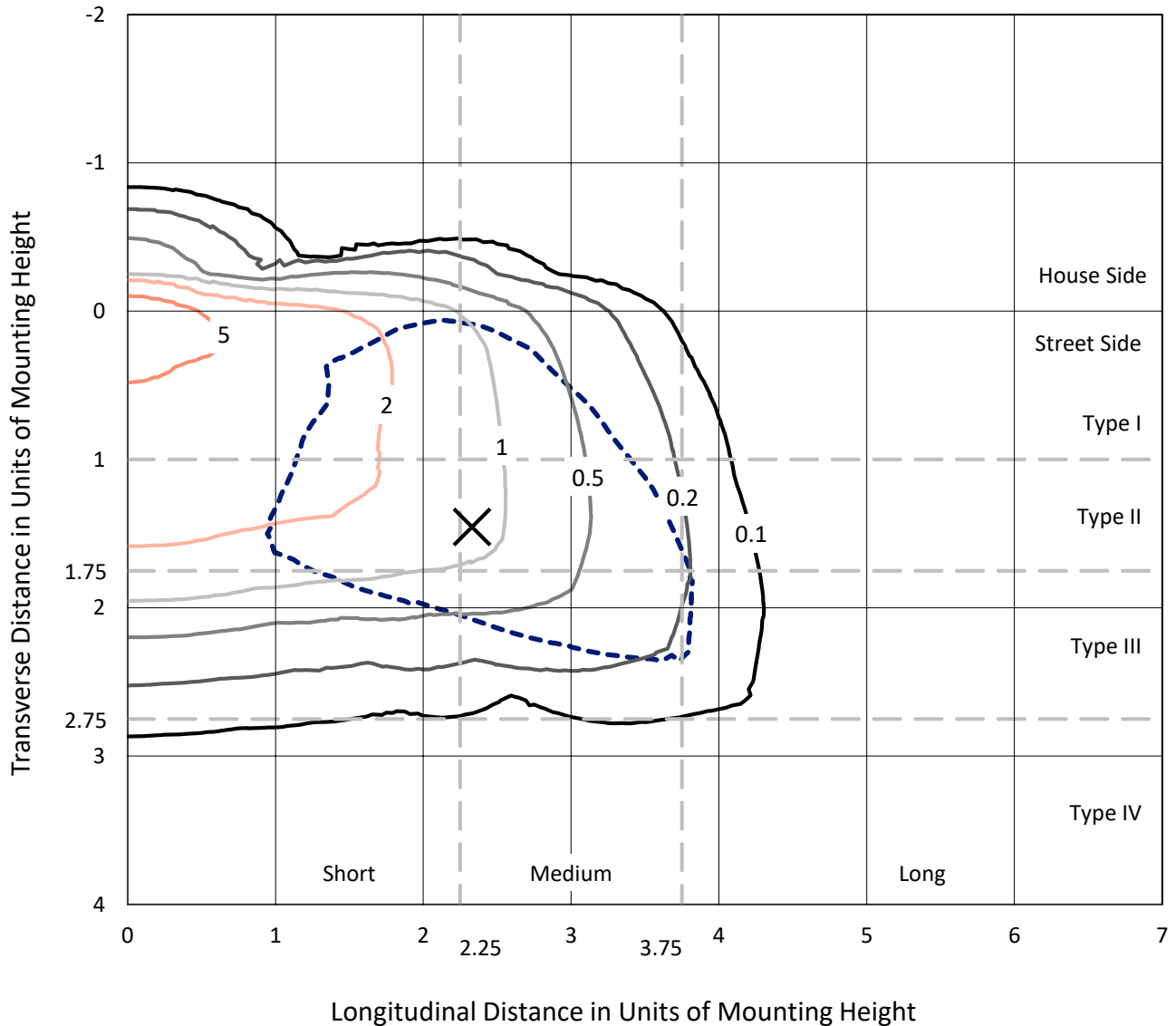




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### Iso-Footcandle Lines of Horizontal Illumination

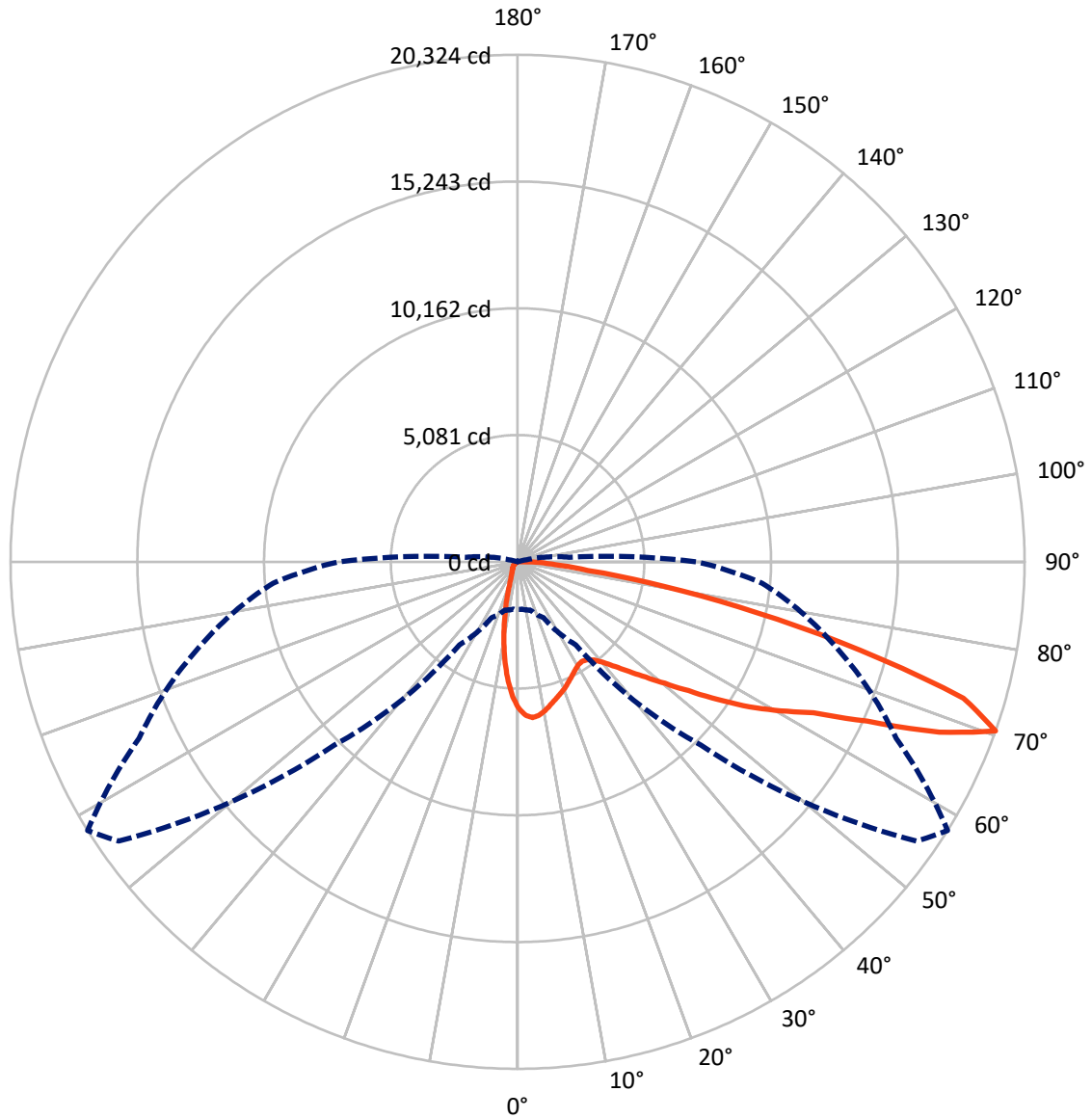
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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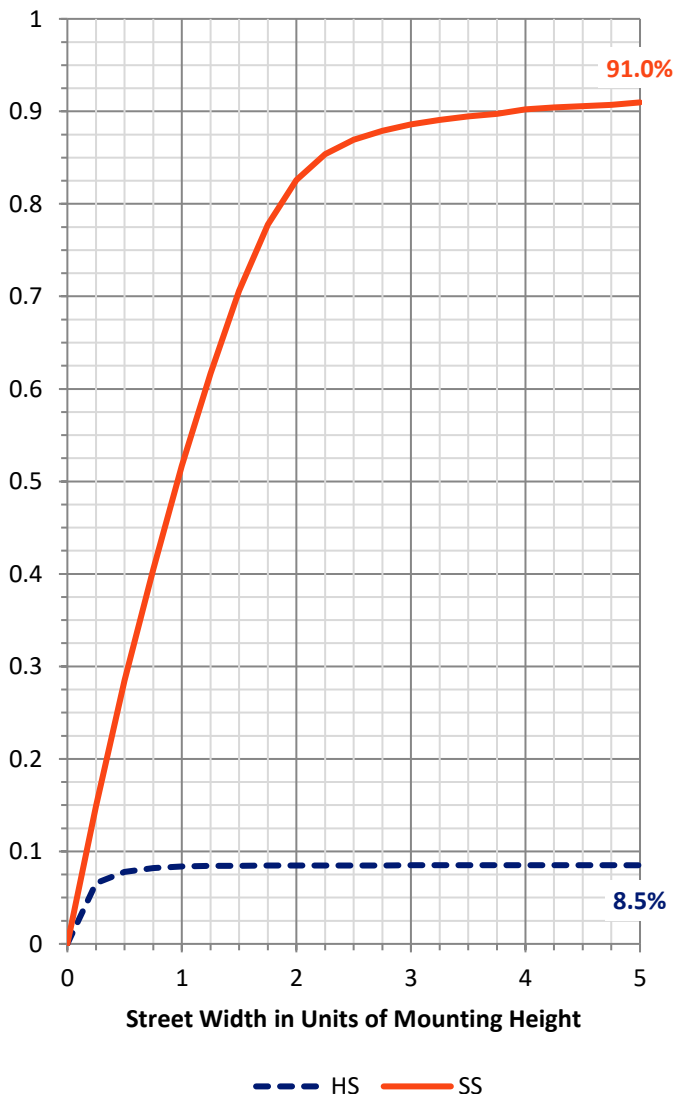
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1702.7	0.0	1702.7
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	18194.3	0.0	18194.3
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	19897.0	0.0	19897.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.6	2.4
10°-20°	1008.7	5.1
20°-30°	1326.1	6.7
30°-40°	1756.3	8.8
40°-50°	2625.1	13.2
50°-60°	4205.4	21.1
60°-70°	5300.8	26.6
70°-80°	2859.2	14.4
80°-90°	334.7	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°	19897.0	100.0
0°-180°	19897.0	100.0

**Coefficient of Utilization**

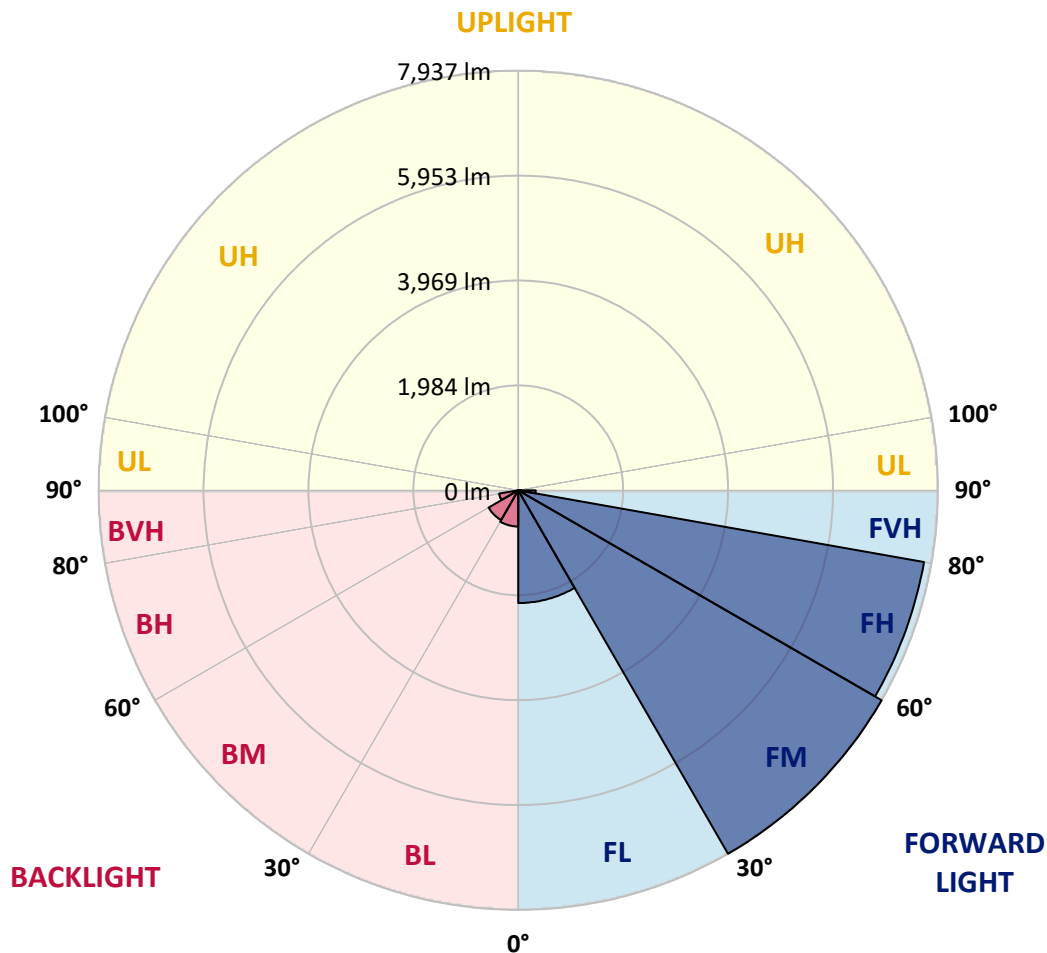


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2131.4	10.7			
FM (30°-60°)	7937.2	39.9			
FH (60°-80°)	7793.9	39.2			G4/12000
FVH (80°-90°)	331.8	1.7			G3/500
BL (0°-30°)	684.1	3.4	B2/1000		
BM (30°-60°)	649.6	3.3	B1/1000		
BH (60°-80°)	366.2	1.8	B1/500		G1/500
BVH (80°-90°)	2.9	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5877.5	5877.5	5877.5	5877.5	5877.5	5877.5	5877.5	5877.5	5877.5	5877.5	5877.5
2.5°	6364.8	6349.1	6343.3	6333.3	6295.3	6258.1	6184.4	6163.7	6117.4	6007.4	5890.7
5°	6369.8	6368.9	6386.3	6382.2	6368.9	6351.5	6298.6	6271.3	6192.7	6035.5	5822.0
7.5°	6062.8	6078.5	6117.4	6148.8	6185.3	6232.4	6239.0	6212.6	6148.0	5978.4	5695.5
10°	5650.8	5675.6	5730.2	5792.3	5887.4	5981.7	6066.1	6062.8	6040.5	5873.3	5543.2
12.5°	5237.9	5266.9	5329.8	5421.6	5556.5	5710.4	5860.9	5881.6	5918.8	5779.0	5402.6
15°	4876.4	4901.2	4963.3	5075.8	5242.9	5449.7	5670.6	5708.7	5804.7	5705.4	5285.1
17.5°	4569.4	4585.2	4630.7	4755.6	4949.2	5199.9	5487.0	5561.4	5704.6	5647.5	5183.3
20°	4355.2	4357.6	4387.4	4475.1	4668.7	4949.2	5296.7	5403.4	5598.7	5597.8	5078.3
22.5°	4249.3	4241.0	4246.8	4297.2	4439.5	4710.1	5106.4	5233.0	5503.5	5555.6	4971.5
25°	4229.4	4222.8	4206.2	4212.9	4298.9	4500.8	4914.4	5060.9	5420.0	5530.0	4878.9
27.5°	4291.5	4298.1	4269.9	4240.2	4246.8	4365.1	4744.0	4913.6	5352.1	5530.0	4813.5
30°	4416.4	4419.7	4399.0	4360.1	4308.0	4327.0	4625.7	4795.3	5318.2	5568.1	4772.1
32.5°	4554.6	4572.8	4570.3	4538.8	4464.4	4387.4	4597.6	4752.3	5315.7	5652.4	4768.0
35°	4725.8	4746.5	4781.2	4774.6	4696.9	4570.3	4693.5	4815.2	5364.5	5791.4	4812.7
37.5°	4907.8	4939.3	5013.7	5049.3	4998.8	4855.7	4908.7	4995.5	5495.2	6016.5	4926.0
40°	5084.1	5119.6	5255.3	5395.1	5357.1	5209.8	5234.6	5304.1	5727.7	6340.0	5141.1
42.5°	5257.0	5309.9	5509.3	5739.3	5784.8	5667.3	5680.6	5736.0	6072.7	6785.1	5492.8
45°	5463.8	5523.4	5818.7	6102.5	6224.1	6172.8	6229.1	6265.5	6523.6	7373.3	5966.8
47.5°	5767.4	5836.1	6198.5	6522.0	6735.4	6768.5	6881.9	6905.9	7093.7	8058.4	6584.9
50°	6359.8	6378.9	6706.5	7000.2	7308.0	7506.5	7635.6	7653.8	7783.7	8807.1	7356.8
52.5°	7105.3	7117.7	7303.0	7499.9	7849.9	8255.3	8557.3	8582.9	8610.2	9536.8	8118.8
55°	7845.7	7844.1	7966.5	8082.4	8482.8	9071.9	9727.1	9742.8	9546.8	10229.3	8701.2
57.5°	8308.2	8352.9	8539.1	8688.0	9247.3	10002.6	10911.9	10969.8	10530.5	10742.3	9277.1
60°	8161.0	8182.5	8595.3	9146.3	10199.5	11325.6	12110.7	12125.6	11270.1	11254.4	10005.1
62.5°	6953.0	6964.6	7613.3	8749.2	10681.9	13041.5	13556.9	13314.5	12120.6	11965.1	10876.3
65°	4765.5	4840.8	5382.7	6786.7	9795.8	14117.9	15795.7	15394.5	13417.1	12989.4	11664.0
67.5°	2806.4	2790.6	3058.7	4092.9	7194.6	13403.0	18627.7	18229.0	15185.1	13675.2	11433.1
70°	1917.0	1906.2	2008.8	2477.9	4061.5	10397.3	19518.8	20323.8	16746.3	13213.6	9839.6
72.5°	1368.4	1374.2	1525.6	1925.2	2549.9	6057.8	16785.2	18690.6	16257.4	11519.2	7479.2
75°	929.1	944.8	1161.6	1579.4	2235.5	3081.9	11911.3	14208.0	13238.4	8371.9	4298.9
77.5°	499.7	517.1	772.7	1272.5	2021.2	2141.2	7662.1	9778.4	8315.7	3763.6	1246.0
80°	208.5	218.4	361.6	925.0	1746.5	1880.6	4508.2	5929.6	3543.5	742.1	278.0
82.5°	90.2	95.1	150.6	551.8	1305.6	1587.7	2386.9	2852.7	1073.9	163.0	139.8
85°	17.4	18.2	62.1	292.1	833.1	896.0	1547.1	1516.5	482.3	70.3	101.8
87.5°	0.0	0.0	14.9	91.8	244.9	488.1	944.0	932.4	163.8	33.9	38.1
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°	5877.5	5877.5	5877.5	5877.5	5877.5	5877.5	5877.5	5877.5	5877.5	5877.5	5877.5
2.5°	5831.1	5774.1	5654.1	5506.0	5392.7	5267.7	5168.4	5042.7	4988.1	4990.6	4960.8
5°	5700.4	5582.9	5317.4	4982.3	4724.2	4457.8	4228.6	4000.2	3865.4	3821.5	3780.2
7.5°	5513.4	5327.3	4903.7	4387.4	3950.6	3523.7	3152.2	2825.4	2618.6	2517.6	2480.4
10°	5302.5	5041.0	4428.0	3747.9	3124.1	2546.6	2065.1	1646.4	1479.3	1366.0	1337.0
12.5°	5117.1	4763.0	3963.0	3091.8	2351.3	1654.7	1195.5	934.9	821.6	776.9	769.4
15°	4942.6	4503.3	3515.4	2497.8	1628.2	1018.5	760.3	671.8	645.3	637.9	637.9
17.5°	4777.9	4255.9	3077.7	1912.8	1077.2	714.0	629.6	609.8	601.5	600.7	601.5
20°	4605.8	4008.5	2647.5	1401.5	752.1	604.8	581.6	570.9	568.4	568.4	568.4
22.5°	4441.2	3761.1	2228.9	1001.1	603.1	551.8	540.3	532.8	530.3	529.5	527.8
25°	4283.2	3526.2	1820.2	707.4	529.5	505.5	495.6	485.7	478.2	474.1	471.6
27.5°	4153.3	3316.8	1439.6	567.6	478.2	457.5	445.1	430.2	412.0	403.7	400.4
30°	4049.9	3125.7	1109.5	479.0	430.2	409.5	390.5	364.9	338.4	324.3	323.5
32.5°	3968.8	2937.9	842.2	423.6	387.2	361.6	334.2	302.0	271.4	255.7	254.8
35°	3929.1	2772.4	643.7	383.1	349.1	316.9	283.0	247.4	217.6	202.7	201.0
37.5°	3955.6	2632.6	502.2	349.1	316.9	279.6	239.9	202.7	176.2	163.0	162.2
40°	4052.4	2543.3	407.9	320.2	289.6	244.1	201.0	166.3	144.0	133.2	132.4
42.5°	4258.4	2510.2	348.3	296.2	263.1	211.0	167.1	137.3	116.7	109.2	107.6
45°	4602.5	2559.0	307.8	273.0	235.8	179.5	138.2	112.5	94.3	88.5	87.7
47.5°	5060.9	2687.2	278.8	250.7	211.0	151.4	115.0	91.0	76.9	71.2	70.3
50°	5651.6	2890.8	254.8	228.3	187.8	128.2	95.1	72.0	59.6	55.4	55.4
52.5°	6294.5	3133.2	233.3	207.7	164.6	106.7	76.9	55.4	47.2	42.2	42.2
55°	6825.6	3345.0	210.1	191.9	136.5	88.5	58.7	42.2	34.7	32.3	32.3
57.5°	7356.0	3570.8	183.7	164.6	109.2	72.0	44.7	31.4	25.6	24.0	24.0
60°	8043.5	3847.2	158.0	134.0	86.0	54.6	33.1	22.3	19.0	18.2	18.2
62.5°	8799.7	4009.3	134.9	107.6	67.0	40.5	24.0	14.9	14.1	14.1	13.2
65°	9262.2	3780.2	113.3	86.0	52.1	30.6	15.7	10.8	12.4	11.6	9.9
67.5°	8672.3	2959.4	92.7	67.0	40.5	23.2	9.9	7.4	13.2	10.8	8.3
70°	7180.6	2071.7	72.0	47.2	32.3	19.9	6.6	5.0	14.1	10.8	6.6
72.5°	5373.6	1386.6	57.1	31.4	24.0	17.4	5.8	2.5	12.4	9.1	5.8
75°	2936.3	558.5	45.5	19.9	14.9	12.4	4.1	1.7	8.3	6.6	4.1
77.5°	772.7	147.3	33.1	13.2	8.3	5.0	2.5	0.8	4.1	3.3	1.7
80°	196.9	57.1	21.5	9.1	5.8	2.5	0.0	0.0	0.8	0.0	0.0
82.5°	105.1	24.0	13.2	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	79.4	15.7	7.4	4.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.6	5.0	2.5	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)