

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: P324754

Luminaire Tested: **GAN-SA0A-730-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0A-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34388 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

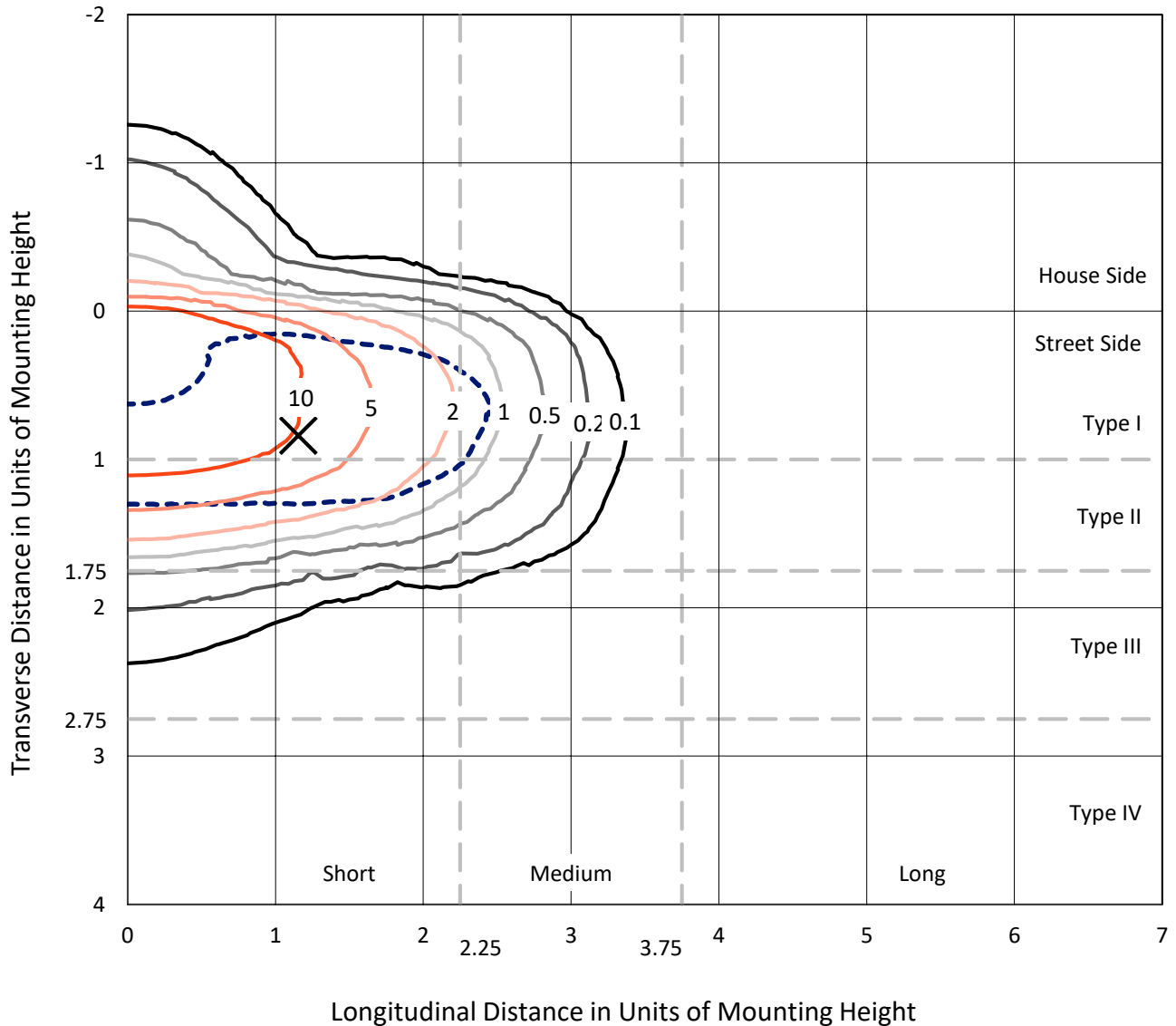
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P324754  
 CATALOG NUMBER: GAN-SA0A-730-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

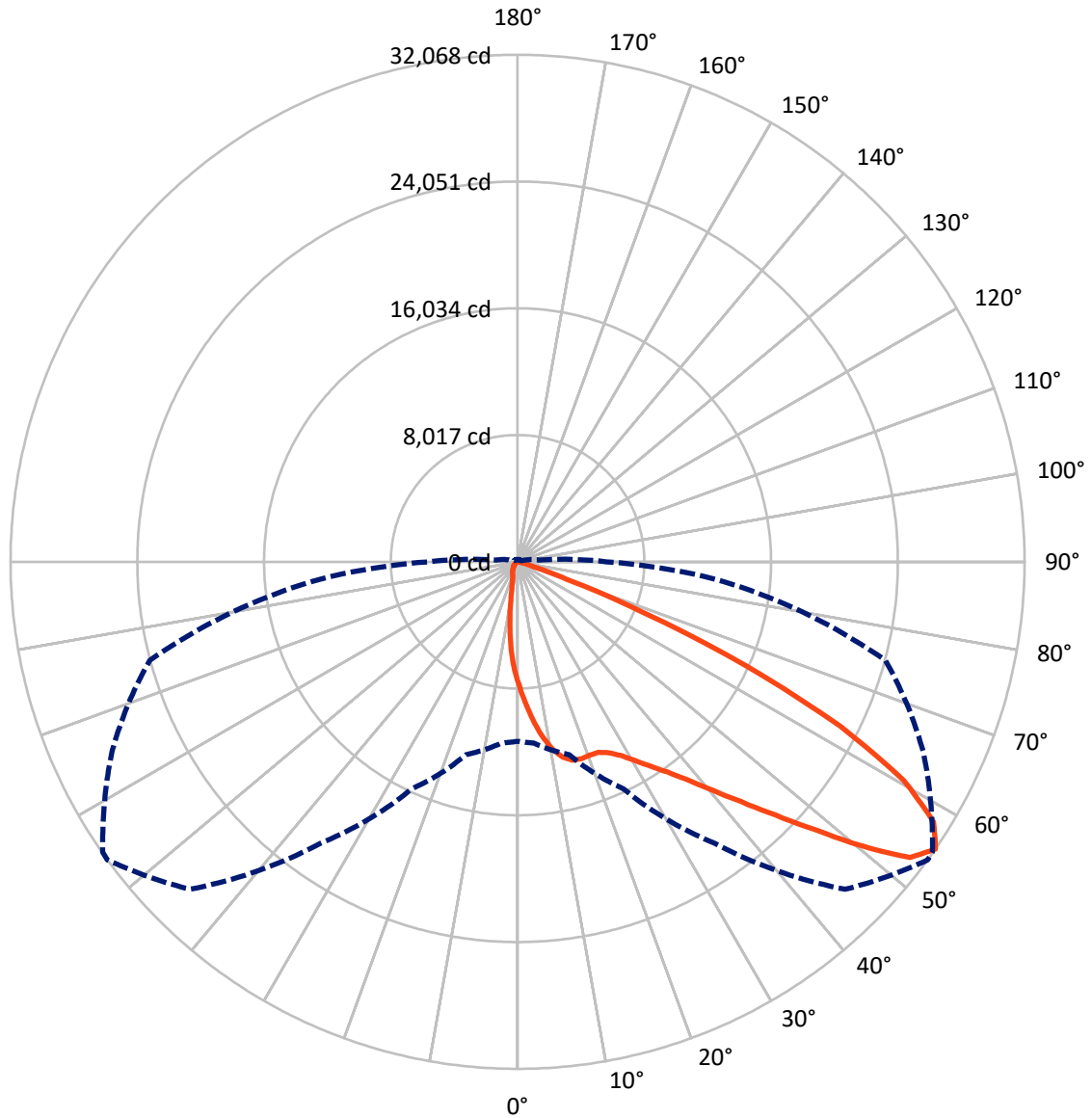
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P324754  
CATALOG NUMBER: GAN-SA0A-730-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P324754  
 CATALOG NUMBER: GAN-SA0A-730-U-AFL-HSS

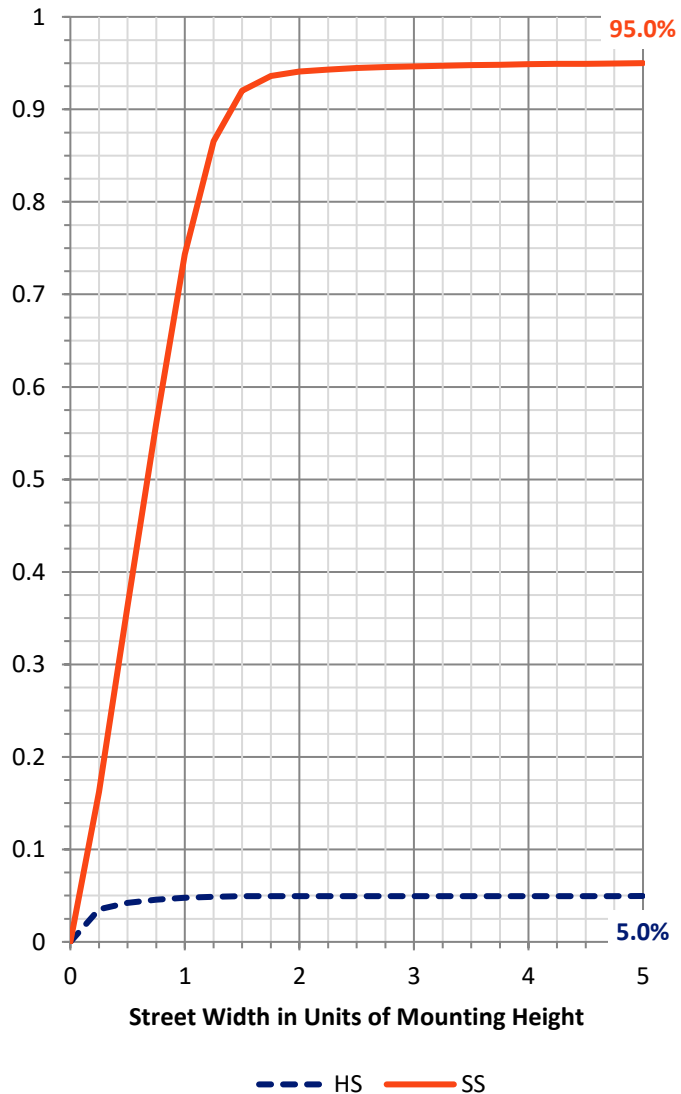
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1715.7	0.0	1715.7
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	32672.3	0.0	32672.3
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	34388.0	0.0	34388.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	709.2	2.1
10°-20°	1945.1	5.7
20°-30°	3320.9	9.7
30°-40°	5329.4	15.5
40°-50°	8516.5	24.8
50°-60°	9125.6	26.5
60°-70°	4685.4	13.6
70°-80°	709.7	2.1
80°-90°	46.2	0.1
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°	34388.0	100.0
0°-180°	34388.0	100.0

**Coefficient of Utilization**



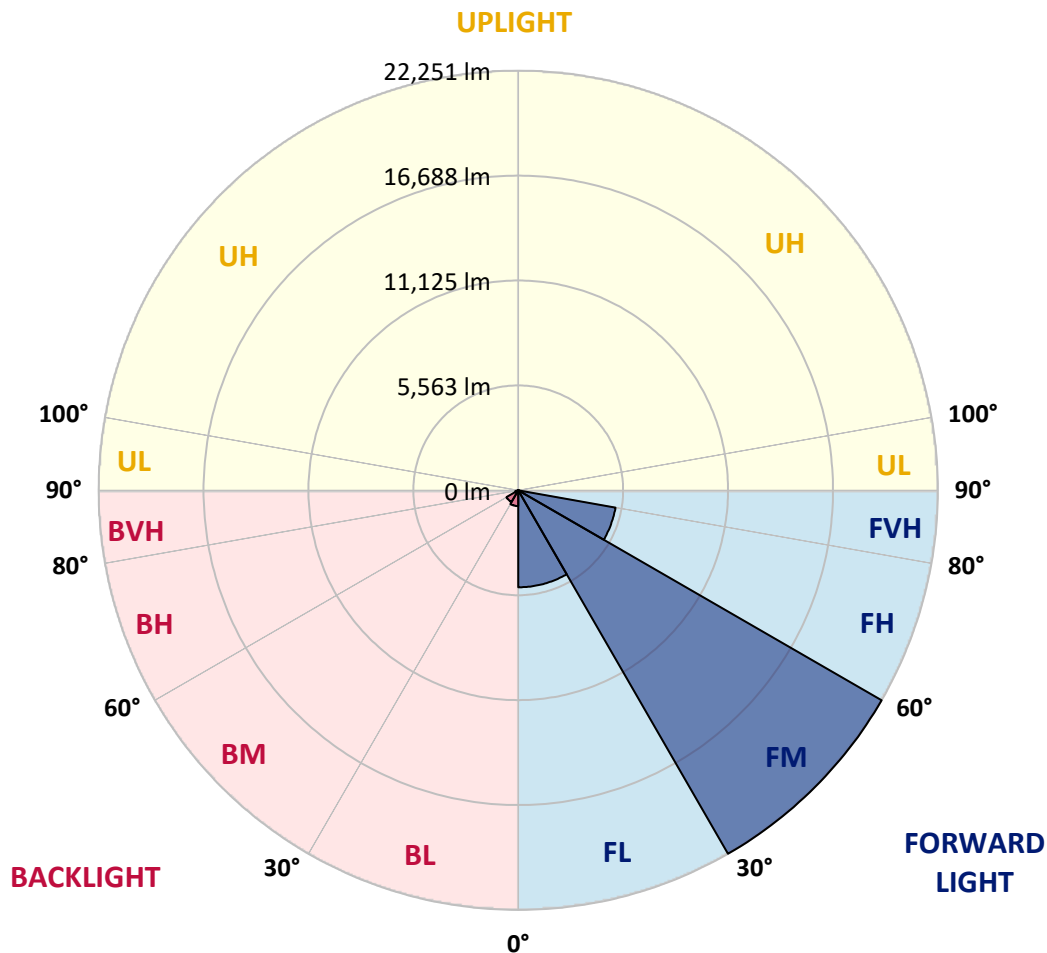
REPORT NUMBER: P324754  
 CATALOG NUMBER: GAN-SA0A-730-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5140.4	14.9			
FM (30°-60°)	22250.6	64.7			
FH (60°-80°)	5237.0	15.2			G3/7500
FVH (80°-90°)	44.4	0.1			G1/100
BL (0°-30°)	834.8	2.4	B2/1000		
BM (30°-60°)	721.0	2.1	B1/1000		
BH (60°-80°)	158.1	0.5	B1/500		G1/500
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-G3**

Type II Short





REPORT NUMBER: P324754

CATALOG NUMBER: GAN-SAOA-730-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5
2.5°	9664.8	9520.7	9525.2	9459.8	9220.8	9033.6	8839.1	8793.1	8490.1	8172.3	7866.4
5°	11335.5	11230.0	11204.8	11078.6	10745.9	10393.9	10016.7	9929.1	9336.6	8686.1	8046.1
7.5°	12193.8	12195.3	12174.5	12128.5	11920.6	11579.0	11118.7	11026.6	10220.2	9244.5	8233.2
10°	11944.4	12000.8	12116.6	12269.6	12428.5	12385.4	12039.4	11956.2	11080.0	9835.6	8441.1
12.5°	11362.2	11369.6	11498.8	11749.8	12207.2	12676.5	12682.4	12654.2	11901.3	10453.4	8669.8
15°	11072.6	11100.8	11148.4	11310.2	11743.9	12495.3	13032.9	13073.0	12654.2	11109.7	8913.3
17.5°	11262.7	11302.8	11262.7	11282.0	11533.0	12208.7	13093.8	13196.3	13312.1	11758.7	9143.5
20°	11778.0	11815.2	11743.9	11665.2	11714.2	12125.5	13050.7	13188.8	13827.4	12334.9	9336.6
22.5°	12473.0	12487.9	12379.5	12250.3	12214.6	12407.7	13086.4	13228.9	14240.3	12856.2	9458.4
25°	13237.8	13251.2	13116.1	12967.6	12882.9	12961.6	13378.9	13485.8	14604.1	13353.7	9528.2
27.5°	14071.0	14082.8	13913.5	13730.9	13632.9	13635.8	13861.6	13975.9	14991.7	13921.0	9584.6
30°	14951.6	14945.7	14789.7	14535.8	14411.0	14408.1	14556.6	14672.4	15553.1	14648.7	9661.8
32.5°	15940.7	15928.8	15707.5	15392.7	15251.6	15272.4	15404.5	15471.4	16249.5	15423.9	9799.9
35°	17243.1	17208.9	16874.8	16484.2	16224.3	16216.9	16328.3	16381.7	17137.6	16362.4	10030.1
37.5°	18933.1	18901.9	18448.9	17881.6	17516.3	17379.7	17511.9	17580.2	18404.4	17566.8	10399.9
40°	20599.3	20568.1	20299.3	19779.5	19216.7	18888.5	18992.5	19065.2	19986.0	19028.1	10866.2
42.5°	21748.7	21775.5	21869.0	21912.1	21384.9	20695.8	20743.3	20819.1	21647.7	20590.4	11399.3
45°	22051.7	22109.6	22638.3	23676.3	23873.9	23336.3	22838.8	22880.4	23336.3	22152.7	11932.5
47.5°	21141.3	21248.3	22268.5	24199.1	25871.3	26251.4	25309.9	25255.0	24956.5	23416.5	12311.2
50°	19072.7	19170.7	20492.4	23348.1	26477.2	29034.4	28271.1	28109.3	26377.7	24172.4	12444.8
52.5°	16078.8	16197.6	17271.3	20669.1	25335.2	30276.0	31074.9	30939.8	27420.2	24231.8	12467.1
55°	11354.8	11498.8	12634.9	15841.2	21716.1	29288.4	32068.4	32028.3	28286.0	24074.3	12514.6
57.5°	6381.3	6485.3	7710.4	10154.9	15905.0	25510.4	31030.4	31296.2	28808.7	23801.1	12585.9
60°	2833.5	2861.7	3495.8	5055.2	9311.3	19495.9	28058.8	28507.3	28360.2	23435.8	12706.2
62.5°	1571.2	1547.4	1547.4	2101.4	4046.8	12069.1	22880.4	23621.4	26446.0	23003.6	12712.1
65°	1231.1	1208.8	1145.0	1153.9	1541.5	5356.6	15844.1	17161.4	22810.6	21736.9	12284.4
67.5°	1044.0	1024.7	960.8	935.6	957.9	1767.2	8705.4	10073.2	17308.4	18444.5	10640.5
70°	882.1	868.8	836.1	804.9	748.5	873.2	3331.0	4260.6	10665.7	12269.6	7263.4
72.5°	709.9	703.9	715.8	689.1	620.8	582.1	1139.0	1379.6	4790.8	5475.4	2992.4
75°	611.8	608.9	614.8	588.1	510.9	405.4	579.2	632.6	1351.4	1339.5	605.9
77.5°	398.0	402.5	509.4	497.5	439.6	270.3	300.0	323.7	409.9	307.4	184.1
80°	253.9	251.0	258.4	412.8	395.0	206.4	150.0	157.4	197.5	151.5	89.1
82.5°	154.4	151.5	169.3	193.1	199.0	144.1	92.1	93.6	123.3	98.0	47.5
85°	13.4	17.8	102.5	95.0	68.3	44.6	44.6	47.5	65.3	57.9	26.7
87.5°	0.0	0.0	17.8	26.7	14.9	16.3	16.3	17.8	25.2	25.2	13.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324754  
 CATALOG NUMBER: GAN-SAOA-730-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5
2.5°	7707.5	7553.0	7241.2	6941.2	6687.2	6442.2	6163.0	5886.8	5757.6	5705.6	5652.1
5°	7720.8	7403.0	6760.0	6112.5	5441.3	4836.8	4321.5	3792.8	3528.5	3412.7	3359.2
7.5°	7738.7	7254.5	6215.0	5127.9	4046.8	3227.0	2511.2	2050.9	1851.9	1820.7	1743.5
10°	7741.6	7074.8	5582.3	4040.9	2713.2	1945.4	1496.9	1259.3	1171.7	1156.9	1131.6
12.5°	7747.6	6862.5	4879.9	2992.4	1808.8	1300.9	1082.6	1003.9	980.1	978.7	978.7
15°	7765.4	6639.7	4150.7	2156.3	1299.4	1030.6	950.4	919.3	910.3	914.8	913.3
17.5°	7765.4	6376.9	3434.9	1606.8	1049.9	926.7	882.1	861.3	858.4	862.8	864.3
20°	7709.0	6057.6	2778.6	1250.4	931.1	859.9	819.8	800.4	793.0	796.0	797.5
22.5°	7573.8	5665.5	2243.9	1035.1	852.4	799.0	755.9	726.2	714.3	715.8	715.8
25°	7362.9	5200.7	1755.3	895.5	788.6	733.6	683.1	649.0	641.5	640.1	643.0
27.5°	7092.7	4686.9	1397.4	788.6	712.8	660.9	610.4	582.1	576.2	577.7	579.2
30°	6826.8	4153.7	1101.9	698.0	628.2	579.2	540.6	527.2	527.2	531.7	533.1
32.5°	6583.3	3641.4	871.7	619.3	552.4	507.9	485.6	484.1	491.6	494.5	496.0
35°	6373.9	3167.6	721.7	558.4	493.0	454.4	447.0	452.9	461.9	467.8	469.3
37.5°	6225.4	2744.4	631.2	507.9	447.0	415.8	414.3	426.2	438.1	451.5	454.4
40°	6163.0	2386.5	568.8	463.3	409.9	386.1	381.7	398.0	420.3	439.6	442.5
42.5°	6111.0	2093.9	515.3	420.3	380.2	346.0	344.5	365.3	392.1	411.4	415.8
45°	6066.5	1859.3	466.3	374.2	341.6	297.0	301.5	328.2	349.0	369.8	374.2
47.5°	5974.4	1666.2	412.8	325.2	282.2	253.9	262.9	286.6	303.0	334.1	338.6
50°	5809.6	1508.8	357.9	265.8	230.2	219.8	233.2	249.5	270.3	297.0	300.0
52.5°	5698.2	1390.0	310.4	222.8	190.1	193.1	206.4	212.4	224.2	234.6	231.7
55°	5634.3	1324.7	271.8	193.1	161.9	170.8	173.8	166.3	160.4	150.0	145.5
57.5°	5626.9	1265.3	242.1	167.8	142.6	147.0	136.6	111.4	90.6	78.7	75.7
60°	5615.0	1192.5	218.3	141.1	126.2	120.3	98.0	60.9	43.1	40.1	40.1
62.5°	5485.8	1079.6	200.5	118.8	106.9	90.6	56.4	28.2	23.8	25.2	25.2
65°	5074.5	922.2	182.7	96.5	84.6	65.3	28.2	16.3	8.9	10.4	10.4
67.5°	4314.1	735.1	163.4	74.3	63.9	41.6	16.3	7.4	0.0	0.0	0.0
70°	2888.4	455.9	138.1	52.0	41.6	25.2	11.9	1.5	0.0	0.0	0.0
72.5°	1107.9	246.5	111.4	31.2	26.7	17.8	7.4	0.0	0.0	0.0	0.0
75°	249.5	161.9	77.2	22.3	19.3	11.9	3.0	0.0	0.0	0.0	0.0
77.5°	95.0	117.3	44.6	14.9	13.4	7.4	0.0	0.0	0.0	0.0	0.0
80°	46.0	69.8	20.8	8.9	7.4	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.8	26.7	8.9	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.4	13.4	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	4.5	1.5	1.5	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)