

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: P321911

Luminaire Tested: **GAN-SA7A-740-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321911  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7A-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23450 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - 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

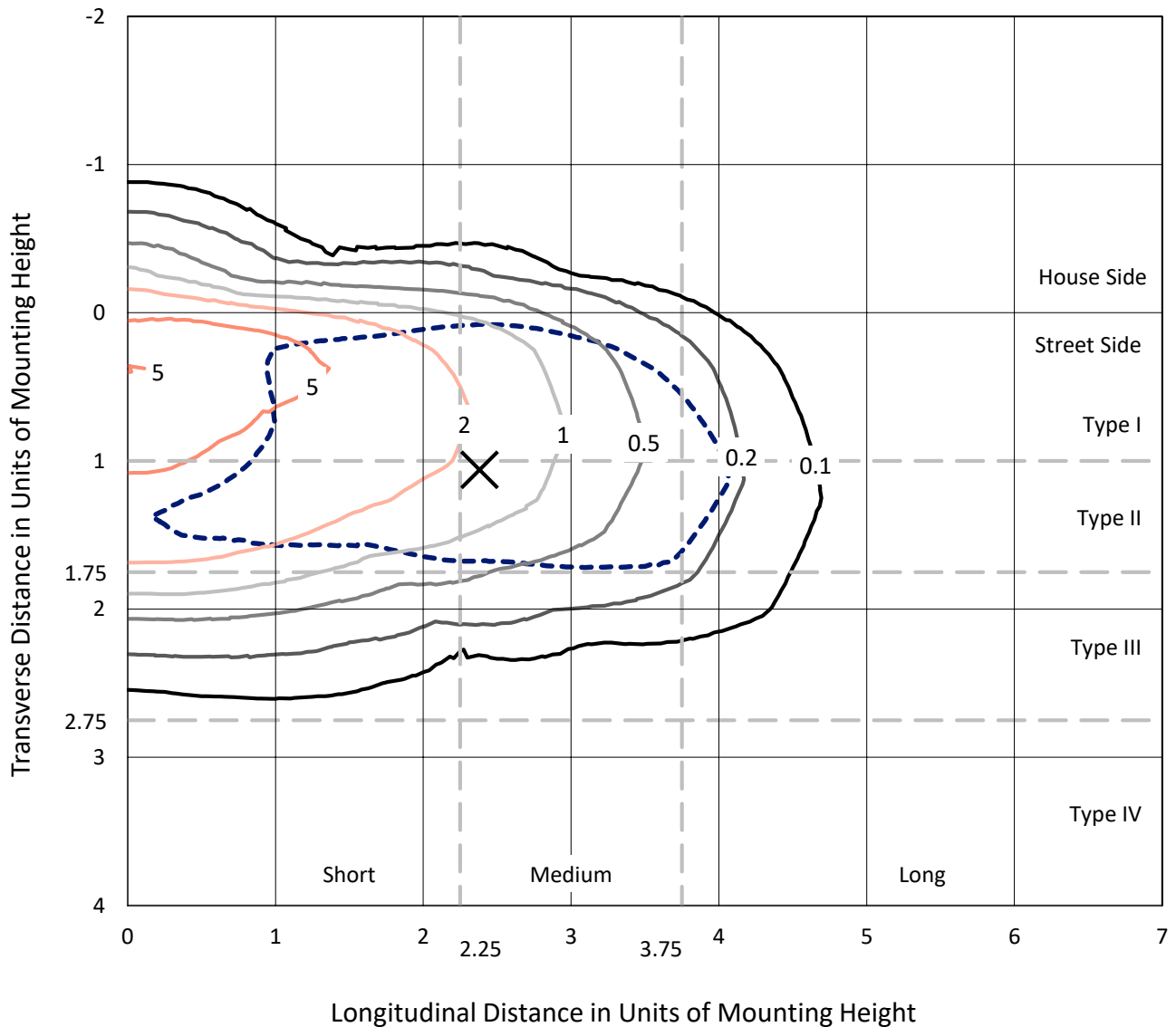




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### Iso-Footcandle Lines of Horizontal Illumination

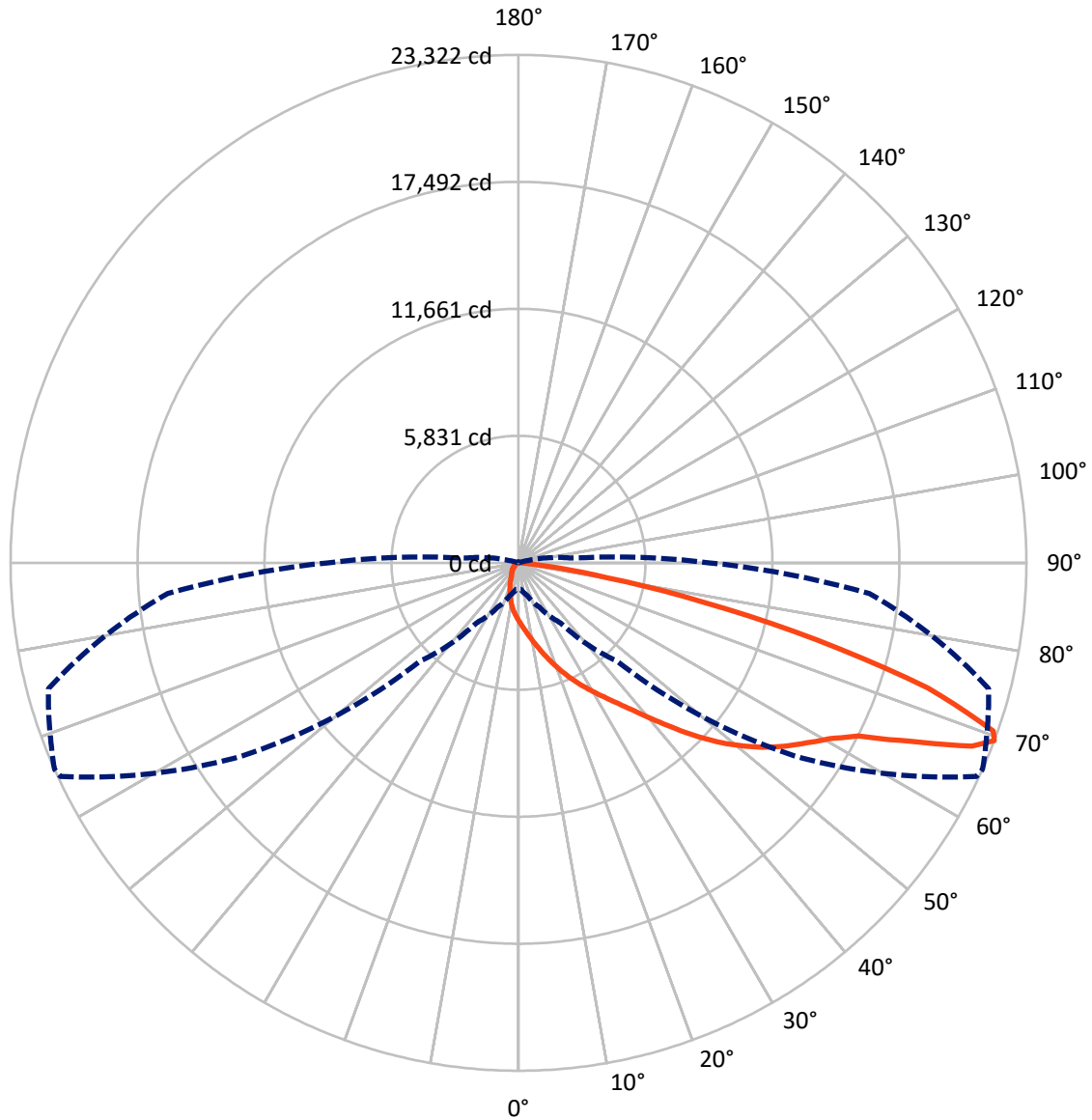
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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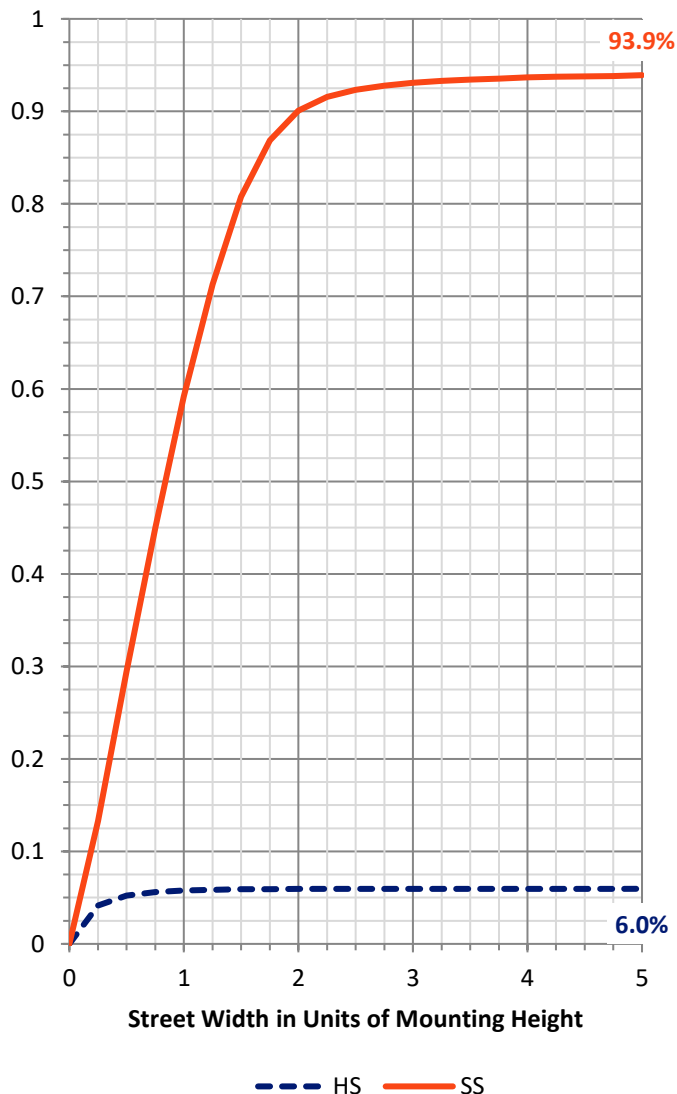
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1406.7	0.0	1406.7
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	22043.3	0.0	22043.3
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	23450.0	0.0	23450.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.0	1.1
10°-20°	767.7	3.3
20°-30°	1336.9	5.7
30°-40°	2345.6	10.0
40°-50°	3926.2	16.7
50°-60°	5771.2	24.6
60°-70°	5925.6	25.3
70°-80°	2925.3	12.5
80°-90°	193.4	0.8
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°	23450.0	100.0
0°-180°	23450.0	100.0

**Coefficient of Utilization**

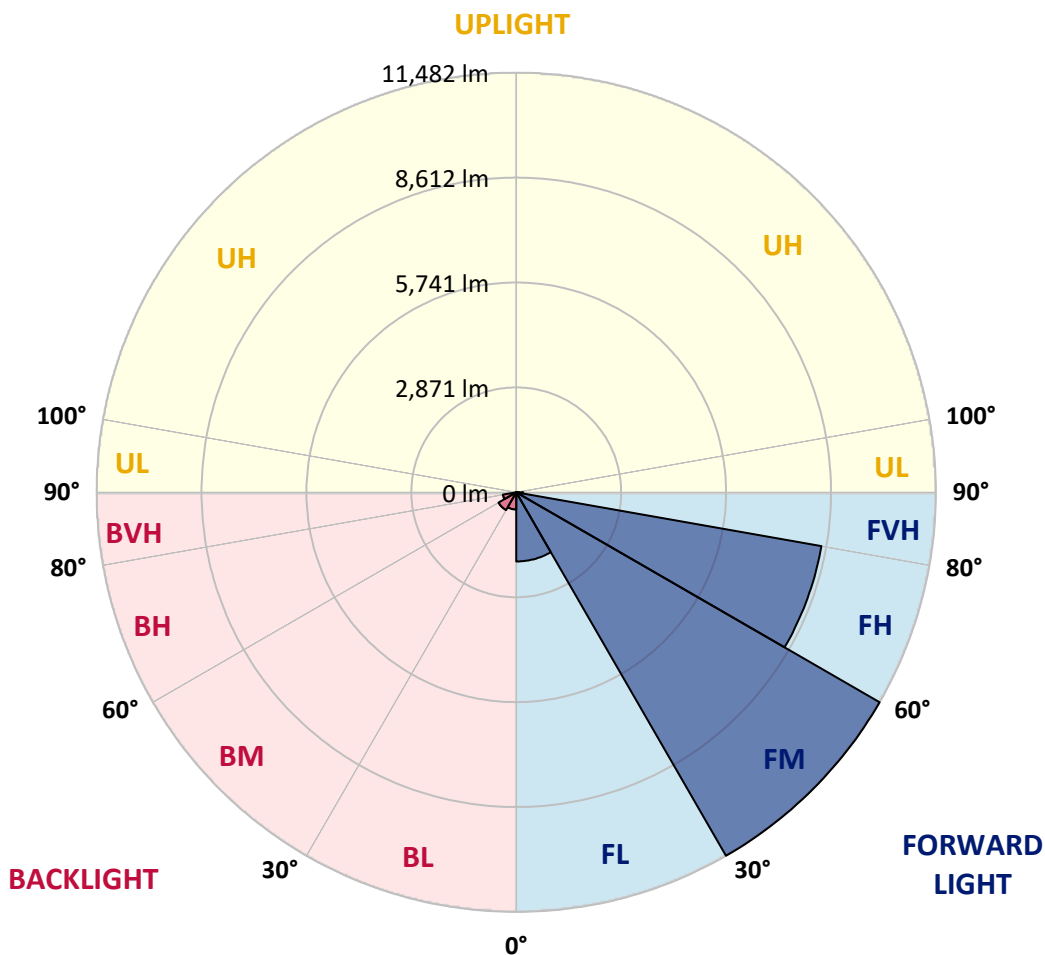


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1892.2	8.1			
FM (30°-60°)	11482.2	49.0			
FH (60°-80°)	8480.1	36.2			G4/12000
FVH (80°-90°)	188.7	0.8			G2/225
BL (0°-30°)	470.4	2.0	B1/500		
BM (30°-60°)	560.8	2.4	B1/1000		
BH (60°-80°)	370.7	1.6	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7
2.5°	3140.9	3127.6	3122.0	3097.5	3055.2	3022.9	2960.5	2888.1	2874.7	2804.6	2718.8
5°	3548.6	3537.5	3529.7	3495.1	3451.7	3370.4	3256.8	3122.0	3096.4	2962.7	2791.2
7.5°	3832.6	3852.7	3852.7	3830.4	3775.8	3714.6	3575.3	3391.5	3359.2	3154.3	2888.1
10°	3998.6	4023.1	4042.0	4060.9	4053.1	4028.6	3897.2	3690.0	3651.1	3379.3	3000.6
12.5°	4014.2	4038.7	4092.1	4171.2	4248.1	4303.8	4221.3	4020.8	3976.3	3639.9	3134.3
15°	3927.3	3952.9	4035.3	4189.0	4375.0	4537.7	4564.4	4387.3	4341.6	3950.7	3301.3
17.5°	3775.8	3792.5	3910.6	4123.3	4415.1	4713.6	4875.1	4780.5	4738.1	4306.0	3487.3
20°	3663.3	3675.6	3779.2	4007.5	4390.6	4823.9	5169.2	5198.1	5153.6	4686.9	3688.9
22.5°	3856.0	3878.3	3881.6	3989.7	4323.8	4878.5	5427.6	5609.1	5575.7	5091.2	3887.2
25°	4382.8	4408.5	4323.8	4257.0	4380.6	4903.0	5649.2	6030.2	6003.4	5526.7	4086.6
27.5°	5079.0	5105.7	4996.5	4797.2	4678.0	4995.4	5846.4	6457.9	6456.7	5987.8	4301.5
30°	5762.8	5789.6	5678.2	5478.8	5204.8	5257.2	6016.8	6905.6	6912.3	6463.4	4529.9
32.5°	6480.1	6513.6	6398.8	6142.7	5856.4	5709.4	6256.3	7355.6	7393.5	7014.8	4787.1
35°	7295.4	7299.9	7138.4	6870.0	6540.3	6314.2	6640.5	7860.1	7950.4	7697.5	5113.5
37.5°	8095.2	8127.5	7994.9	7571.7	7268.7	7012.5	7211.9	8490.6	8618.7	8531.8	5540.1
40°	8687.7	8755.6	8736.7	8280.1	7992.7	7810.0	7921.4	9240.2	9402.8	9503.0	6078.1
42.5°	9059.7	9111.0	9197.8	8922.7	8662.1	8692.2	8759.0	10113.4	10313.9	10610.1	6696.2
45°	9486.3	9510.8	9583.2	9461.8	9285.8	9588.8	9647.8	11096.9	11307.4	11800.8	7382.3
47.5°	10007.6	10065.5	10085.5	9974.2	9894.0	10381.8	10504.3	11991.3	12286.4	13076.1	8108.5
50°	10671.4	10687.0	10721.5	10649.1	10568.9	11063.5	11272.9	12930.2	13198.6	14355.9	8824.7
52.5°	11320.8	11376.4	11496.7	11451.1	11418.8	11643.8	11957.8	13776.7	14076.3	15422.9	9539.8
55°	11507.9	11555.8	11971.2	12255.2	12518.1	12358.8	12612.8	14535.2	14859.3	16376.3	10228.1
57.5°	10760.5	10857.4	11576.9	12316.5	13406.9	13470.4	13512.7	15313.8	15604.5	17107.0	10944.3
60°	8871.5	8890.4	10071.1	11339.7	13259.9	14440.5	14827.0	16150.2	16394.1	17787.5	11801.9
62.5°	5642.6	5835.2	7130.6	8921.6	11705.0	14300.2	16416.4	17415.5	17504.6	18603.9	13031.6
65°	2687.6	2812.4	3745.7	5512.2	8478.3	12503.6	17513.5	19704.4	19744.5	20222.3	14674.4
67.5°	1488.0	1548.2	1992.6	2967.2	4956.4	8842.5	17070.2	22415.4	22453.3	21875.2	16115.7
69°	1163.9	1215.2	1564.9	2236.5	3360.4	6355.4	15447.4	23209.5	23322.0	22348.6	16166.9
70°	987.9	1038.1	1347.7	1889.0	2702.1	4910.8	13750.0	23012.4	23131.6	22304.0	15784.9
72.5°	604.8	633.8	897.7	1329.9	1811.1	2470.4	8479.4	19461.6	19663.2	20459.5	13566.2
75°	407.7	423.2	561.4	917.8	1295.4	1272.0	4405.1	13717.7	14154.3	15915.2	10019.8
77.5°	291.8	306.3	376.5	593.7	907.8	839.8	1994.8	8525.1	8618.7	9545.3	5464.3
80°	166.0	179.3	266.2	353.1	615.9	560.2	793.0	4072.1	4118.9	4093.2	1824.4
82.5°	86.9	98.0	145.9	232.8	395.4	366.4	329.7	1363.3	1370.0	1139.4	399.9
85°	16.7	20.0	72.4	159.3	203.8	159.3	134.8	319.7	326.3	288.5	99.1
87.5°	0.0	1.1	29.0	35.6	40.1	41.2	43.4	62.4	66.8	90.2	26.7
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°	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7
2.5°	2680.9	2640.8	2564.0	2474.9	2405.8	2337.9	2284.4	2228.7	2208.7	2198.7	2197.5
5°	2707.7	2623.0	2460.4	2293.3	2156.3	2027.1	1934.7	1846.7	1805.5	1786.5	1778.8
7.5°	2752.2	2616.3	2354.6	2099.5	1902.4	1740.9	1612.8	1517.0	1469.1	1449.1	1441.3
10°	2804.6	2607.4	2231.0	1894.6	1642.9	1475.8	1348.8	1254.1	1201.8	1179.5	1168.4
12.5°	2865.8	2591.8	2088.4	1687.4	1421.2	1254.1	1100.4	983.5	923.3	897.7	885.5
15°	2941.6	2576.2	1939.1	1492.5	1226.3	1022.5	854.3	775.2	763.0	758.5	759.6
17.5°	3016.2	2551.7	1776.5	1299.8	1021.4	798.6	712.8	708.4	710.6	710.6	710.6
20°	3083.0	2496.0	1599.4	1135.0	826.4	673.9	656.0	648.2	642.7	638.2	632.6
22.5°	3135.4	2421.4	1429.0	971.2	675.0	617.0	589.2	564.7	544.7	531.3	524.6
25°	3171.0	2322.3	1273.1	814.2	607.0	561.4	511.2	470.0	438.8	419.9	412.1
27.5°	3197.7	2215.4	1133.9	681.7	560.2	496.8	431.0	382.0	349.7	333.0	326.3
30°	3216.7	2094.0	1011.3	599.2	507.9	428.8	358.6	310.8	287.4	278.5	274.0
32.5°	3234.5	1959.2	895.5	560.2	458.9	366.4	300.7	264.0	249.5	238.4	235.0
35°	3279.1	1834.4	785.2	519.0	408.8	313.0	258.4	231.7	217.2	210.5	208.3
37.5°	3384.9	1742.0	679.4	476.7	358.6	270.7	226.1	207.2	193.8	187.1	184.9
40°	3555.3	1695.2	590.3	431.0	309.6	238.4	204.9	187.1	172.6	162.6	160.4
42.5°	3805.9	1701.9	527.9	385.4	270.7	212.7	184.9	163.7	148.1	139.2	137.0
45°	4110.0	1750.9	484.5	340.8	238.4	192.7	162.6	140.3	125.9	118.1	115.8
47.5°	4439.6	1830.0	448.9	300.7	212.7	173.8	140.3	116.9	104.7	98.0	96.9
50°	4787.1	1906.8	412.1	261.7	190.5	154.8	118.1	96.9	86.9	81.3	79.1
52.5°	5139.1	1995.9	378.7	226.1	171.5	132.5	98.0	79.1	71.3	66.8	64.6
55°	5517.8	2062.8	346.4	198.3	152.6	112.5	81.3	65.7	59.0	53.5	52.3
57.5°	5963.3	2166.4	313.0	171.5	130.3	93.6	66.8	52.3	46.8	41.2	40.1
60°	6564.8	2287.8	277.3	151.5	106.9	76.9	54.6	42.3	35.6	31.2	30.1
62.5°	7357.8	2422.5	232.8	132.5	86.9	62.4	43.4	33.4	25.6	20.0	20.0
65°	8363.6	2642.0	190.5	111.4	71.3	51.2	33.4	24.5	14.5	8.9	8.9
67.5°	8950.6	2679.8	153.7	91.3	57.9	43.4	27.8	16.7	4.5	1.1	0.0
69°	8762.3	2460.4	130.3	78.0	50.1	41.2	25.6	12.3	2.2	0.0	0.0
70°	8408.1	2249.9	114.7	69.1	45.7	39.0	24.5	8.9	2.2	0.0	0.0
72.5°	6947.9	1601.7	86.9	51.2	33.4	34.5	22.3	5.6	2.2	0.0	0.0
75°	5061.1	973.5	62.4	35.6	21.2	25.6	15.6	2.2	1.1	0.0	0.0
77.5°	2815.7	458.9	39.0	20.0	13.4	15.6	7.8	0.0	0.0	0.0	0.0
80°	914.4	124.7	17.8	11.1	7.8	8.9	3.3	0.0	0.0	0.0	0.0
82.5°	169.3	35.6	10.0	5.6	2.2	2.2	0.0	0.0	0.0	0.0	0.0
85°	36.8	14.5	5.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.3	4.5	1.1	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)