

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: P321561

Luminaire Tested: **GAN-SA7B-730-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321561  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7B-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28311 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

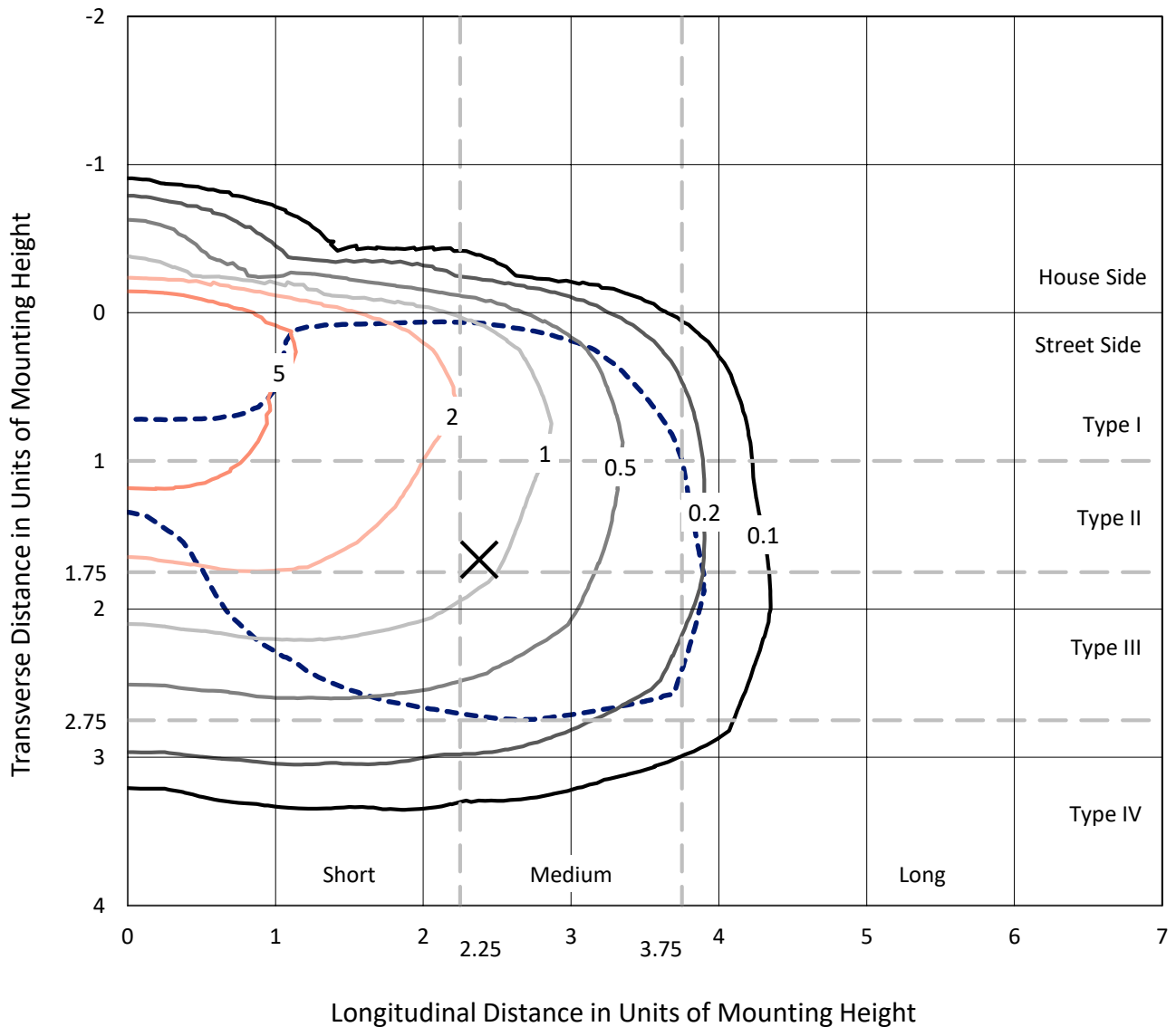
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

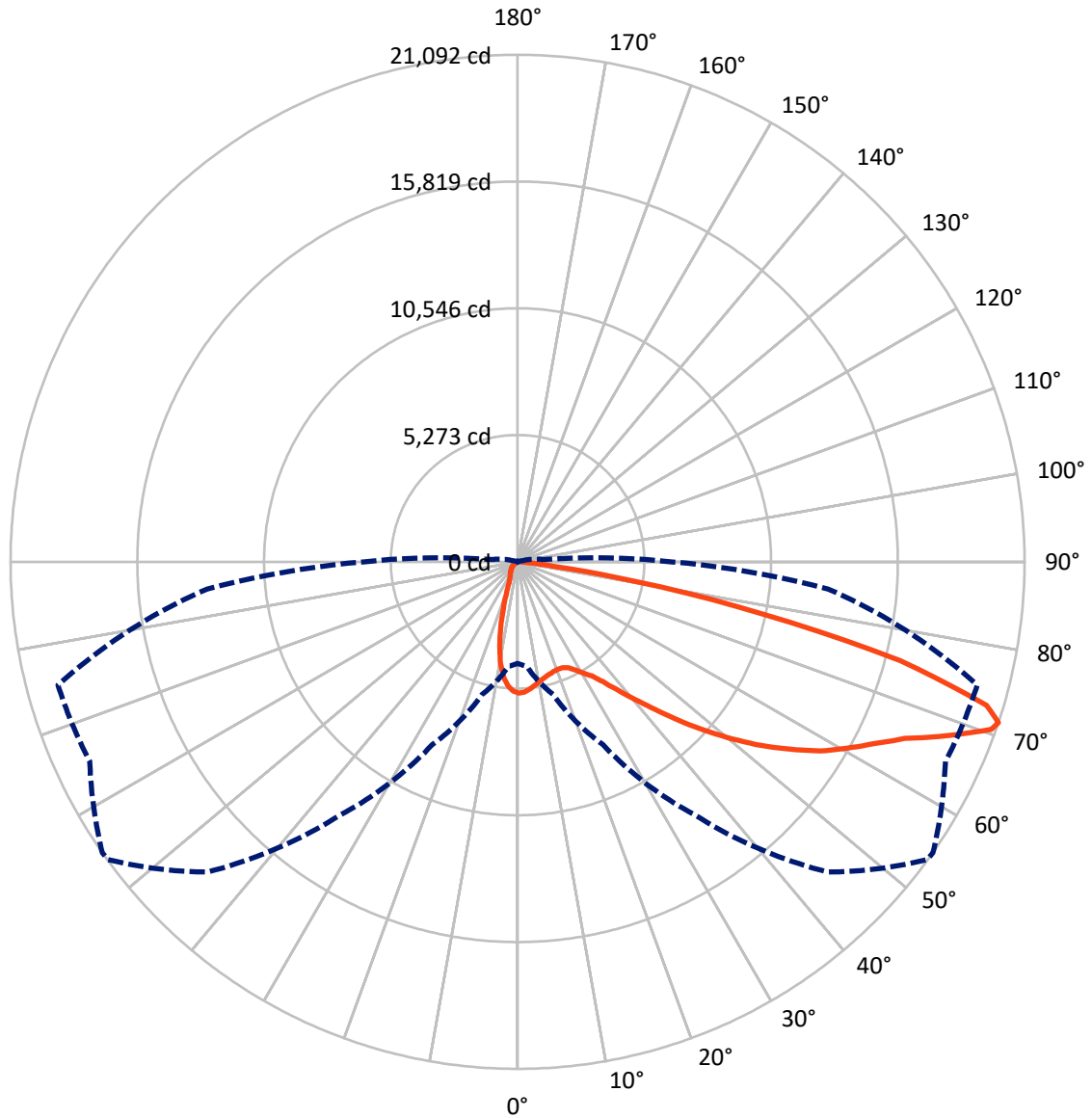
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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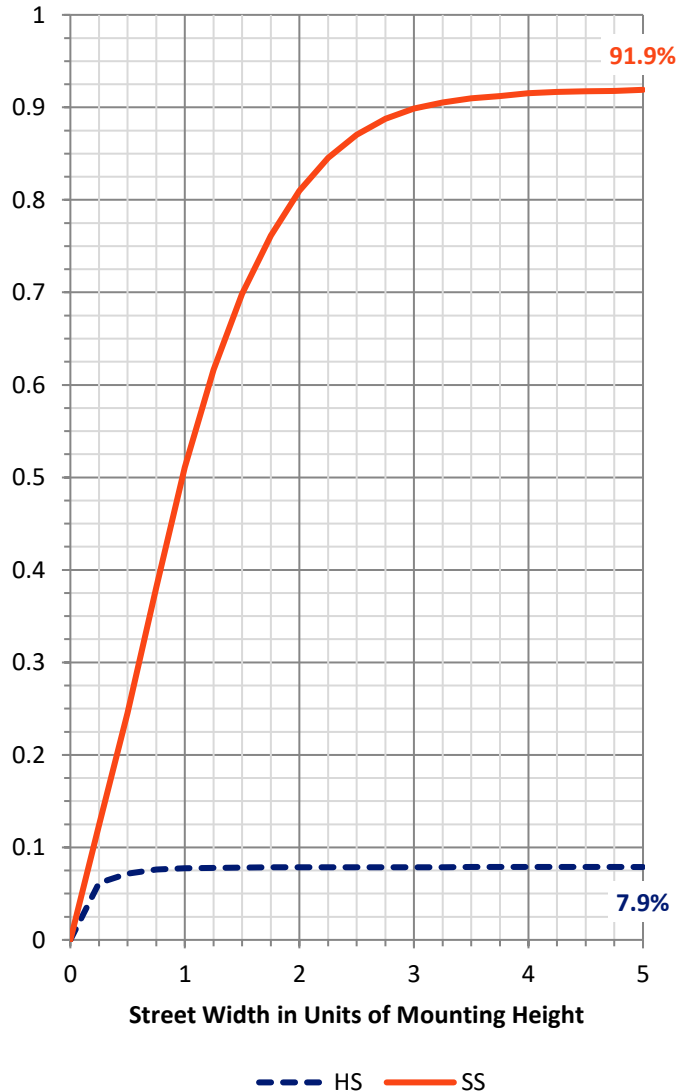
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2241.5	0.0	2241.5
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	26069.5	0.0	26069.5
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	28311.0	0.0	28311.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.5	1.6
10°-20°	1051.0	3.7
20°-30°	1688.9	6.0
30°-40°	2869.6	10.1
40°-50°	4454.0	15.7
50°-60°	5988.2	21.2
60°-70°	7325.6	25.9
70°-80°	4283.1	15.1
80°-90°	185.1	0.7
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°	28311.0	100.0
0°-180°	28311.0	100.0

**Coefficient of Utilization**

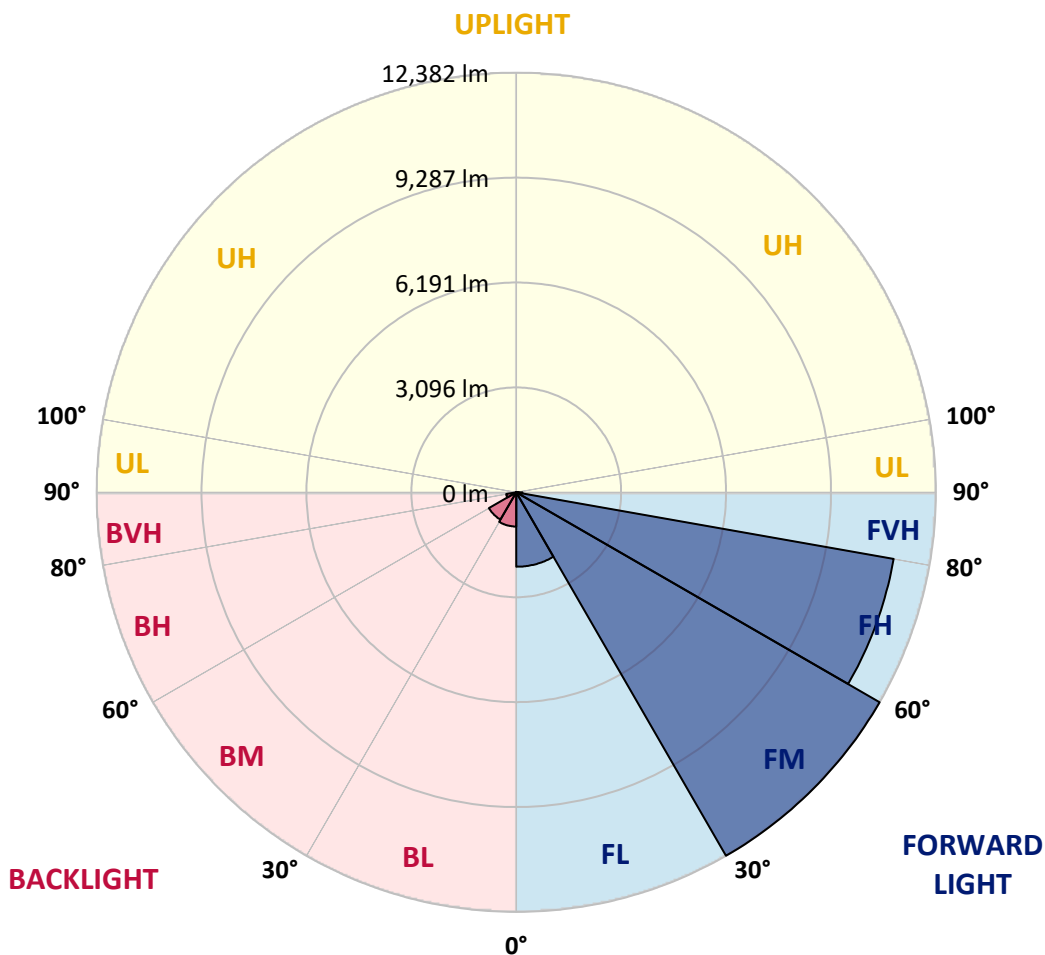


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2196.5	7.8			
FM (30°-60°)	12382.4	43.7			
FH (60°-80°)	11308.4	39.9			G4/12000
FVH (80°-90°)	182.2	0.6			G2/225
BL (0°-30°)	1008.9	3.6	B3/2500		
BM (30°-60°)	929.3	3.3	B1/1000		
BH (60°-80°)	300.3	1.1	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: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5459.9	5459.9	5459.9	5459.9	5459.9	5459.9	5459.9	5459.9	5459.9	5459.9	5459.9
2.5°	5299.7	5306.1	5328.9	5339.1	5363.3	5403.9	5424.3	5425.6	5458.6	5471.3	5481.5
5°	4924.7	4962.8	5001.0	5041.6	5115.4	5213.3	5309.9	5318.8	5425.6	5504.4	5546.3
7.5°	4601.8	4636.1	4681.9	4746.7	4851.0	5004.8	5166.2	5185.3	5387.4	5566.7	5660.7
10°	4270.0	4298.0	4364.1	4459.4	4603.1	4809.0	5026.4	5058.2	5353.1	5650.6	5815.8
12.5°	3915.3	3931.9	4012.0	4149.3	4360.3	4622.1	4908.2	4950.1	5331.5	5747.2	5998.9
15°	3645.9	3653.5	3729.8	3872.1	4113.7	4454.3	4816.6	4867.5	5336.6	5862.9	6198.5
17.5°	3577.2	3581.0	3621.7	3719.6	3933.1	4304.3	4744.2	4806.5	5351.8	5976.0	6399.3
20°	3855.6	3828.9	3787.0	3771.7	3863.2	4214.1	4701.0	4770.9	5372.2	6076.4	6579.8
22.5°	4619.6	4540.8	4366.6	4134.0	3992.9	4220.4	4712.4	4782.3	5437.0	6199.7	6788.3
25°	5753.5	5644.2	5348.0	4890.4	4450.5	4403.5	4807.7	4878.9	5562.8	6347.2	6987.9
27.5°	7043.8	6935.8	6573.5	5920.1	5170.0	4765.8	5026.4	5092.5	5749.7	6478.1	7140.4
30°	8279.4	8248.9	7821.8	7079.4	6075.1	5353.1	5308.6	5364.5	5888.3	6556.9	7261.2
32.5°	9326.9	9278.6	8935.4	8213.3	7111.2	6058.6	5640.4	5656.9	5992.5	6658.6	7418.8
35°	10298.1	10238.4	9937.1	9254.5	8173.9	6920.5	6151.4	6127.3	6220.1	6863.3	7647.6
37.5°	11146.0	11200.7	10866.4	10216.8	9127.3	7816.7	6840.4	6768.0	6576.0	7196.4	7979.4
40°	11855.4	11855.4	11681.2	11139.7	10157.0	8743.4	7619.7	7524.3	7111.2	7709.9	8400.2
42.5°	12110.9	12165.5	12230.4	11924.0	11078.7	9707.0	8487.9	8388.8	7865.0	8438.3	8931.6
45°	12126.1	12212.6	12544.4	12543.1	11911.3	10664.2	9466.8	9419.7	8831.1	9374.0	9590.1
47.5°	11911.3	12019.4	12566.0	12876.2	12571.1	11555.4	10537.1	10478.6	9966.3	10520.6	10279.1
50°	11579.5	11699.0	12334.6	13007.1	13019.8	12330.8	11664.7	11577.0	11215.9	11831.2	10990.9
52.5°	10985.9	11217.2	12127.4	13037.6	13314.7	13000.7	12737.6	12699.5	12614.3	13093.5	11557.9
55°	9715.9	9972.7	11607.5	13047.8	13588.0	13594.4	13743.1	13753.3	13924.9	14273.2	11980.0
57.5°	9115.9	9260.8	10699.8	13096.1	13993.6	14268.1	14767.7	14846.5	15112.2	15393.2	12461.7
60°	8738.3	8910.0	10252.4	13030.0	14630.4	15151.6	15717.3	15744.0	16028.8	16548.7	13113.9
62.5°	8437.1	8606.1	9970.2	12775.7	15346.1	16214.4	16645.3	16647.9	16861.4	17925.4	13855.0
65°	7693.4	7835.8	9399.4	12489.7	15819.0	17265.7	17723.3	17706.8	17880.9	19377.2	14715.6
67.5°	6618.0	6727.3	8233.7	11405.4	15641.1	18221.6	19350.5	19295.8	19084.8	20631.9	15053.8
70°	5116.6	5156.1	6489.6	9504.9	13973.2	18589.0	20923.0	20895.0	19823.4	20406.8	13814.3
71°	4229.3	4359.0	5719.2	8388.8	12855.8	18249.6	21075.5	21092.0	19637.8	19794.1	12961.3
72.5°	2456.0	2566.6	4145.4	6442.5	10914.7	16833.5	20284.8	20404.3	18770.8	18004.2	11071.0
75°	526.3	563.1	1536.9	3118.3	6004.0	11798.2	16011.0	16436.8	15299.1	12248.2	6672.6
77.5°	366.1	395.3	658.5	1414.9	1984.4	5829.8	9946.0	10426.5	9140.1	4603.1	2135.6
80°	289.8	322.9	513.6	699.2	536.5	1880.1	4659.0	4952.7	3048.4	1027.1	359.8
82.5°	161.4	192.0	400.4	377.6	205.9	357.2	1304.3	1474.6	610.2	207.2	85.2
85°	47.0	57.2	258.1	274.6	87.7	68.6	222.5	275.9	115.7	54.7	38.1
87.5°	0.0	0.0	124.6	105.5	25.4	10.2	20.3	22.9	22.9	22.9	25.4
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°	5459.9	5459.9	5459.9	5459.9	5459.9	5459.9	5459.9	5459.9	5459.9	5459.9	5459.9
2.5°	5481.5	5490.4	5458.6	5416.7	5372.2	5317.5	5260.3	5215.8	5214.5	5192.9	5171.3
5°	5548.9	5543.8	5456.1	5322.6	5165.0	5001.0	4844.6	4667.9	4609.4	4537.0	4512.8
7.5°	5673.4	5637.8	5452.3	5159.9	4814.1	4470.9	4116.2	3759.0	3606.4	3469.2	3445.0
10°	5829.8	5762.4	5428.1	4915.8	4281.5	3648.4	3113.2	2627.6	2414.0	2250.1	2242.4
12.5°	5992.5	5889.5	5360.7	4547.1	3583.6	2693.7	2077.2	1599.2	1421.2	1306.8	1317.0
15°	6162.9	6009.0	5215.8	4050.1	2789.1	1828.0	1276.3	995.4	924.2	894.9	902.6
17.5°	6337.0	6091.7	5013.7	3451.4	2004.7	1179.7	883.5	804.7	804.7	811.0	813.6
20°	6488.3	6136.2	4716.2	2780.2	1358.9	859.3	772.9	761.5	767.8	778.0	779.3
22.5°	6638.3	6138.7	4328.5	2100.1	950.9	752.6	736.0	730.9	734.8	746.2	747.5
25°	6760.3	6108.2	3842.9	1493.7	758.9	709.3	701.7	699.2	701.7	715.7	715.7
27.5°	6809.9	5997.6	3250.5	1050.0	680.1	661.0	658.5	661.0	664.8	675.0	676.3
30°	6815.0	5804.4	2604.7	760.2	616.5	596.2	601.3	610.2	606.4	603.8	606.4
32.5°	6827.7	5580.6	1975.5	625.4	563.1	531.4	525.0	525.0	509.8	500.9	495.8
35°	6869.7	5317.5	1432.7	561.9	508.5	471.6	447.5	419.5	390.3	375.0	371.2
37.5°	6935.8	5041.6	1025.9	519.9	460.2	418.2	372.5	322.9	280.9	269.5	269.5
40°	7056.5	4756.9	758.9	486.9	422.0	369.9	301.3	236.4	198.3	192.0	192.0
42.5°	7247.2	4456.9	605.1	457.6	389.0	320.3	230.1	171.6	143.6	139.8	138.6
45°	7445.5	4126.4	528.8	429.7	353.4	263.1	170.3	127.1	110.6	106.8	106.8
47.5°	7643.8	3774.2	492.0	403.0	319.1	204.7	127.1	100.4	92.8	92.8	94.1
50°	7811.6	3406.9	465.3	373.7	274.6	155.1	100.4	85.2	82.6	87.7	89.0
52.5°	7853.6	3045.8	432.2	336.9	219.9	118.2	82.6	75.0	75.0	75.0	75.0
55°	7828.2	2766.2	389.0	291.1	162.7	94.1	71.2	66.1	64.8	64.8	64.8
57.5°	7914.6	2600.9	311.4	226.3	117.0	76.3	62.3	58.5	55.9	54.7	54.7
60°	8088.8	2492.9	222.5	162.7	87.7	63.6	53.4	49.6	45.8	43.2	43.2
62.5°	8320.1	2398.8	165.3	120.8	67.4	50.8	44.5	40.7	35.6	33.1	33.1
65°	8498.1	2231.0	125.9	90.3	50.8	40.7	34.3	33.1	25.4	22.9	21.6
67.5°	8226.0	1862.3	101.7	66.1	38.1	31.8	26.7	25.4	15.3	12.7	12.7
70°	7055.3	1296.6	81.4	48.3	28.0	25.4	21.6	16.5	11.4	10.2	10.2
71°	6398.0	1083.1	73.7	40.7	24.2	24.2	20.3	14.0	10.2	8.9	8.9
72.5°	5315.0	769.1	62.3	31.8	21.6	25.4	21.6	12.7	10.2	8.9	7.6
75°	3085.2	321.6	43.2	21.6	16.5	30.5	28.0	11.4	7.6	6.4	6.4
77.5°	928.0	118.2	24.2	14.0	12.7	26.7	31.8	10.2	3.8	1.3	1.3
80°	169.1	50.8	15.3	8.9	8.9	16.5	24.2	5.1	0.0	0.0	0.0
82.5°	59.7	25.4	8.9	5.1	3.8	7.6	11.4	0.0	0.0	0.0	0.0
85°	34.3	17.8	5.1	2.5	0.0	1.3	2.5	0.0	0.0	0.0	0.0
87.5°	22.9	5.1	0.0	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)