

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: P323831

Luminaire Tested: **GAN-SA7A-740-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323831  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7A-740-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26753 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

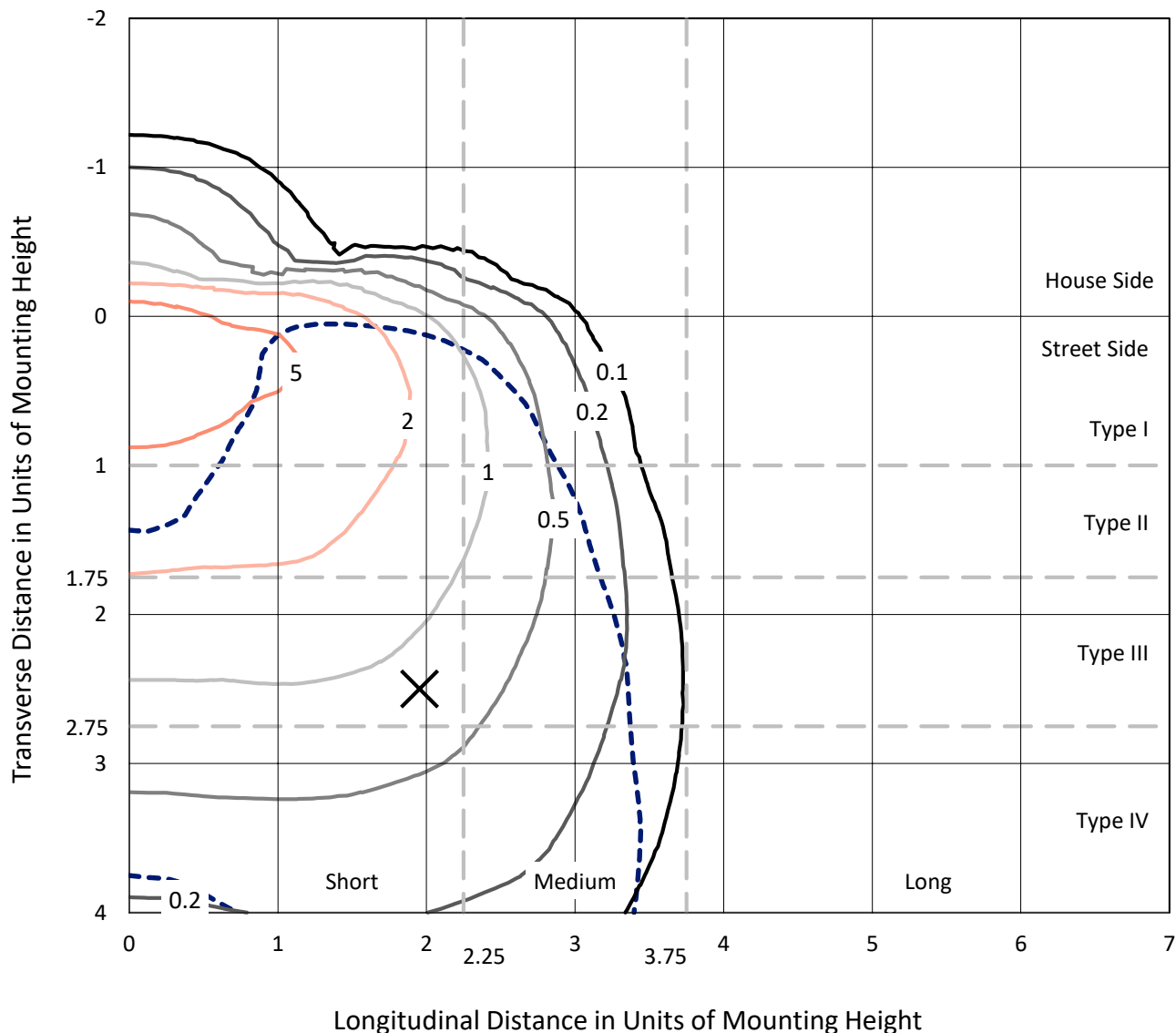
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

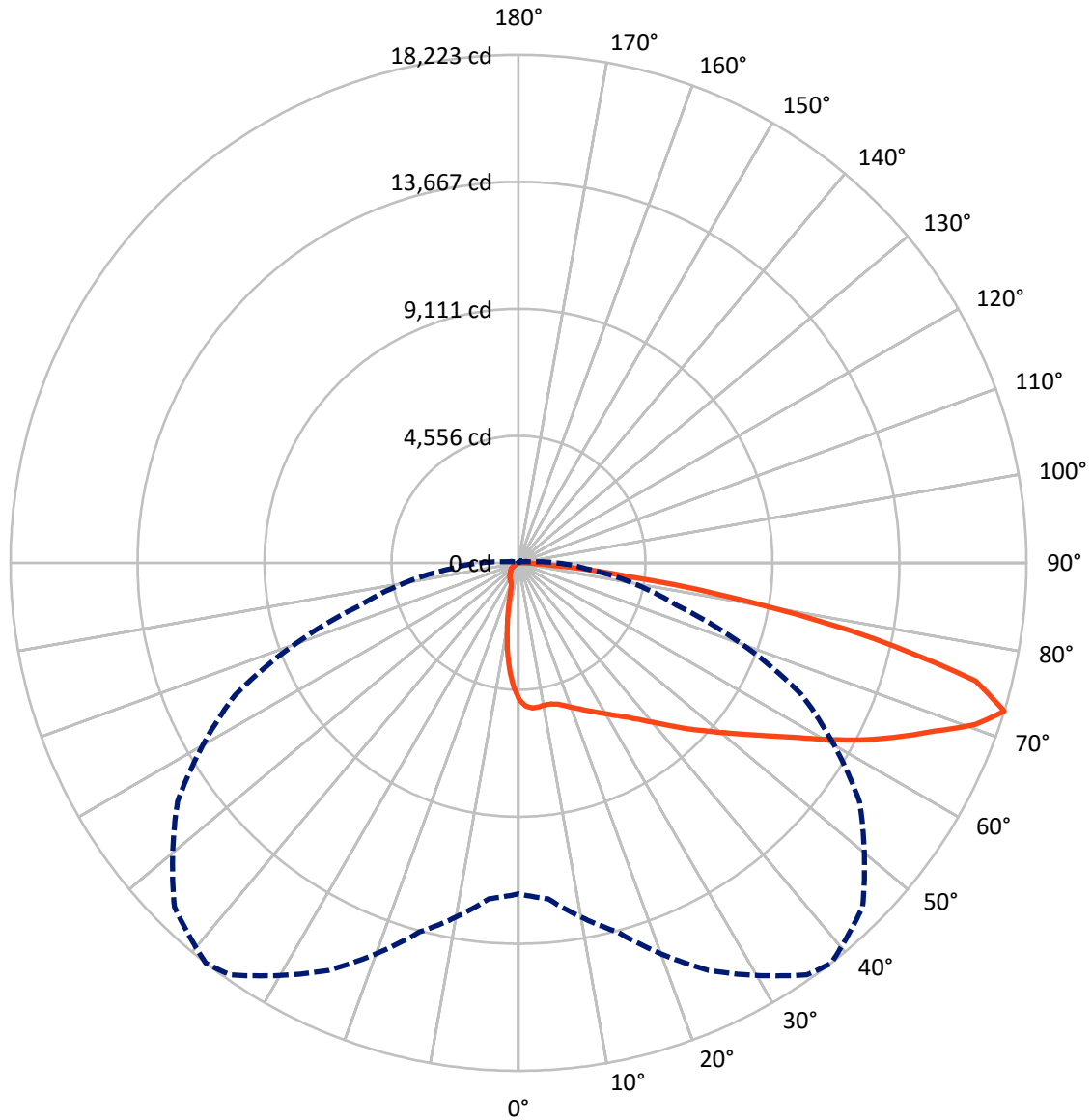
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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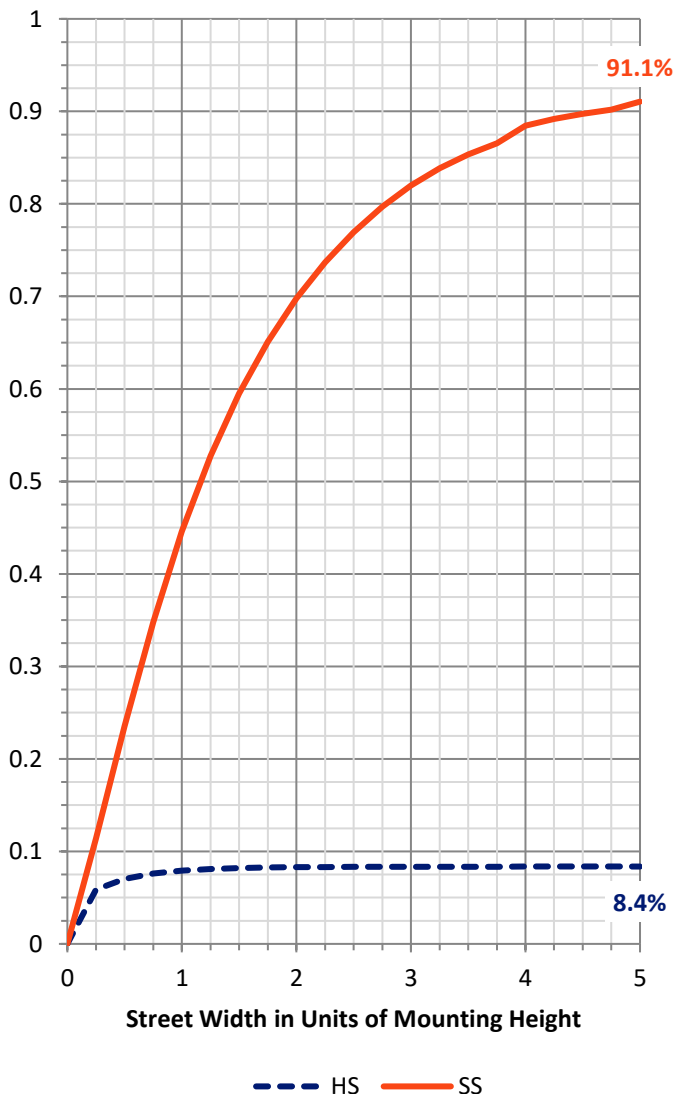
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2251.4	0.0	2251.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	24501.6	0.0	24501.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	26753.0	0.0	26753.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.3	1.6
10°-20°	1025.2	3.8
20°-30°	1630.5	6.1
30°-40°	2451.3	9.2
40°-50°	3739.7	14.0
50°-60°	5285.4	19.8
60°-70°	6629.7	24.8
70°-80°	4957.2	18.5
80°-90°	614.7	2.3
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°	26753.0	100.0
0°-180°	26753.0	100.0

**Coefficient of Utilization**

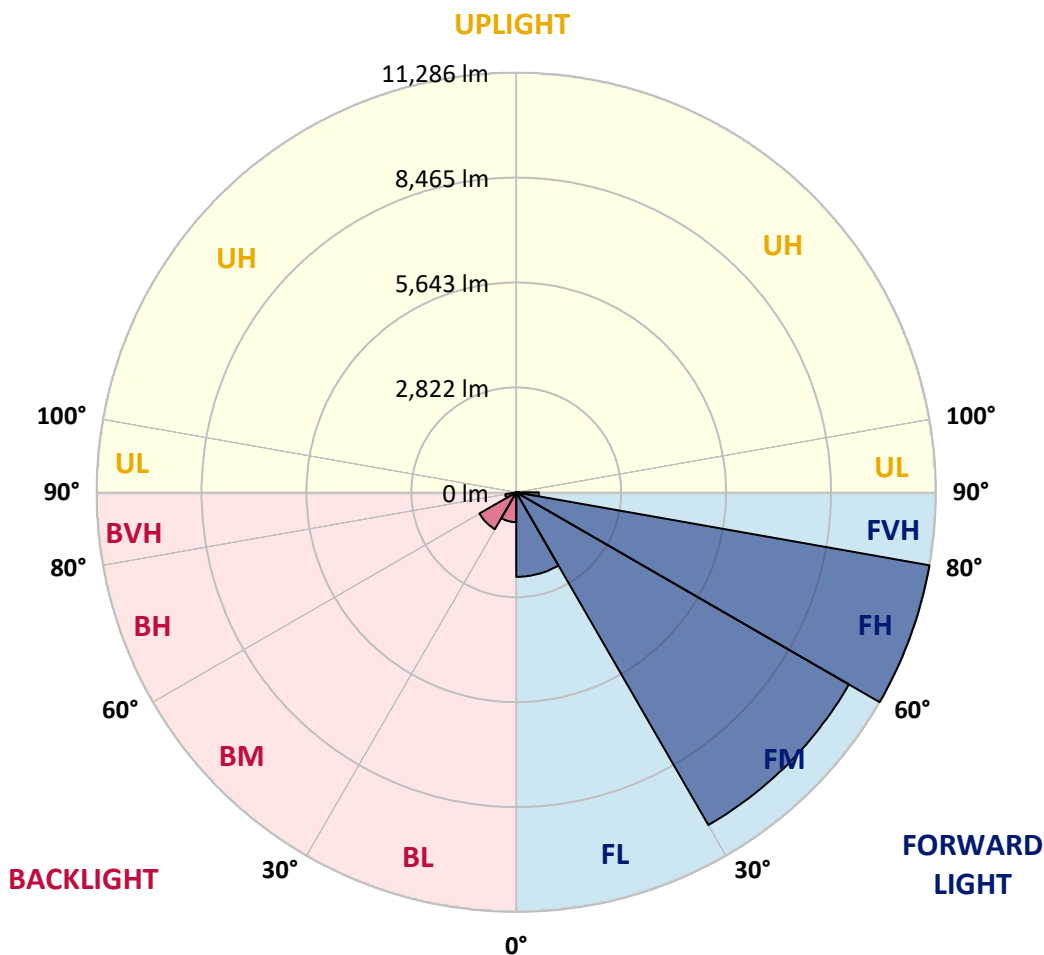


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2273.4	8.5			
FM (30°-60°)	10333.2	38.6			
FH (60°-80°)	11286.1	42.2			G4/12000
FVH (80°-90°)	608.9	2.3			G4/750
BL (0°-30°)	801.6	3.0	B2/1000		
BM (30°-60°)	1143.3	4.3	B2/2500		
BH (60°-80°)	300.7	1.1	B1/500		G1/500
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4919.8	4919.8	4919.8	4919.8	4919.8	4919.8	4919.8	4919.8	4919.8	4919.8	4919.8
2.5°	5222.0	5223.1	5210.9	5190.9	5165.3	5152.0	5129.8	5094.2	5056.4	4988.7	4915.3
5°	5328.7	5328.7	5313.1	5286.4	5245.3	5233.1	5190.9	5134.2	5056.4	4946.5	4823.1
7.5°	5317.5	5319.8	5298.7	5270.9	5229.8	5218.7	5167.6	5104.2	5007.6	4874.2	4716.5
10°	5259.8	5265.3	5248.7	5235.3	5197.6	5185.3	5137.6	5074.2	4977.6	4835.3	4654.2
12.5°	5200.9	5206.4	5212.0	5224.2	5200.9	5196.4	5158.7	5105.3	5013.1	4865.3	4660.9
15°	5163.1	5174.2	5214.2	5262.0	5267.6	5263.1	5238.7	5188.7	5095.3	4942.0	4708.7
17.5°	5163.1	5180.9	5264.2	5355.3	5387.5	5390.9	5369.8	5299.8	5188.7	5024.2	4753.1
20°	5206.4	5230.9	5360.9	5489.8	5543.1	5543.1	5502.0	5404.2	5274.2	5098.7	4783.1
22.5°	5317.5	5349.8	5513.1	5662.0	5718.6	5706.4	5650.9	5508.7	5363.1	5183.1	4820.9
25°	5536.4	5560.9	5730.9	5880.9	5915.3	5887.5	5817.5	5635.3	5476.4	5297.6	4889.8
27.5°	5818.6	5822.0	5997.5	6124.2	6103.1	6084.2	5996.4	5794.2	5639.8	5460.9	5008.7
30°	6128.6	6128.6	6283.1	6379.7	6315.3	6299.7	6212.0	5986.4	5848.6	5683.1	5177.6
32.5°	6428.6	6441.9	6567.5	6628.6	6556.4	6540.8	6455.3	6229.7	6126.4	6022.0	5440.9
35°	6718.6	6728.6	6847.5	6880.8	6811.9	6816.4	6755.3	6564.2	6525.3	6511.9	5837.5
37.5°	6999.7	7001.9	7123.0	7144.1	7109.7	7147.5	7153.0	6984.1	7056.4	7164.1	6396.4
40°	7256.4	7258.6	7378.6	7433.0	7491.9	7540.8	7584.1	7494.1	7733.0	7983.0	7061.9
42.5°	7461.9	7485.2	7637.4	7740.8	7896.3	7989.7	8107.4	8103.0	8538.5	8914.1	7866.3
45°	7643.0	7683.0	7895.2	8076.3	8343.0	8491.9	8676.3	8820.7	9445.1	9950.7	8680.7
47.5°	7881.9	7919.7	8161.9	8458.5	8814.1	9009.6	9315.2	9627.4	10441.8	10968.4	9476.3
50°	8218.5	8201.9	8440.7	8866.3	9322.9	9579.6	10015.1	10482.9	11430.6	11855.0	9944.0
52.5°	8577.4	8570.7	8747.4	9309.6	9922.9	10222.9	10798.4	11367.3	12376.1	12466.1	10158.5
55°	9021.8	8974.1	9122.9	9815.1	10635.1	10957.3	11635.1	12242.8	13129.4	12810.6	10266.2
57.5°	9487.4	9408.5	9550.7	10378.4	11438.4	11819.5	12561.7	13096.1	13630.5	13046.1	10265.1
60°	9968.5	9875.1	10044.0	11082.9	12436.1	12877.2	13566.1	13672.7	14098.3	13165.0	10189.6
62.5°	10370.7	10315.1	10566.2	11836.2	13550.5	13983.8	14324.9	14197.2	14492.7	13257.2	10012.9
65°	10796.2	10799.5	11205.1	12715.0	14734.9	15027.1	15056.0	14877.1	14822.7	13238.3	9415.2
67.5°	11371.7	11425.1	12101.7	13908.3	15887.1	16112.6	16110.4	15613.8	15063.8	12487.2	8089.7
70°	11980.6	12106.1	13135.0	15273.8	17144.8	17373.7	17255.9	16082.6	14183.8	10097.3	5725.3
72.5°	11878.4	12096.1	13709.4	16134.9	18048.1	18222.6	17457.0	14930.5	11210.6	5868.6	2437.7
75°	9164.1	9416.3	12570.6	15281.6	17100.4	16943.7	14999.4	11618.4	6126.4	1637.7	548.9
77.5°	4840.9	4975.3	8304.1	11641.7	13333.9	13006.1	10566.2	6445.3	1867.7	405.5	246.7
80°	2535.4	2566.6	3618.7	6605.3	8229.6	8231.9	6262.0	2831.0	770.0	207.8	165.5
82.5°	1357.7	1384.4	1912.1	3052.1	4312.0	3908.7	2397.7	1557.7	447.8	117.8	158.9
85°	326.7	332.2	1084.4	1394.4	1695.5	1211.1	712.2	1307.7	121.1	68.9	128.9
87.5°	125.6	127.8	402.2	603.3	432.2	280.0	333.3	487.8	15.6	26.7	20.0
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°	4919.8	4919.8	4919.8	4919.8	4919.8	4919.8	4919.8	4919.8	4919.8	4919.8	4919.8
2.5°	4870.9	4842.0	4770.9	4680.9	4600.9	4543.1	4456.5	4399.8	4362.0	4360.9	4346.5
5°	4747.6	4688.7	4535.4	4353.1	4187.6	4038.7	3863.2	3724.3	3621.0	3604.3	3568.7
7.5°	4615.4	4518.7	4283.1	3998.7	3721.0	3438.7	3111.0	2907.7	2733.2	2649.9	2641.0
10°	4534.2	4398.7	4064.3	3653.2	3217.6	2758.8	2329.9	2033.2	1818.8	1757.7	1712.1
12.5°	4517.6	4338.7	3895.4	3328.7	2706.6	2099.9	1625.5	1309.9	1138.8	1084.4	1070.0
15°	4534.2	4310.9	3753.2	3007.6	2188.8	1489.9	1091.1	907.7	843.3	827.7	826.6
17.5°	4544.2	4277.6	3592.1	2651.0	1686.6	1064.4	835.5	782.2	772.2	771.1	773.3
20°	4543.1	4226.5	3399.9	2253.2	1254.4	836.6	755.5	744.4	742.2	743.3	742.2
22.5°	4535.4	4166.5	3188.8	1843.3	947.7	747.7	721.1	714.4	713.3	713.3	713.3
25°	4549.8	4118.7	2956.5	1451.0	781.1	706.6	690.0	684.4	683.3	683.3	681.1
27.5°	4602.0	4092.0	2702.1	1116.6	705.5	670.0	656.6	655.5	652.2	651.1	653.3
30°	4686.5	4092.0	2423.2	868.9	660.0	632.2	622.2	620.0	618.9	617.8	618.9
32.5°	4835.3	4123.2	2118.8	722.2	616.6	590.0	583.3	586.6	583.3	583.3	583.3
35°	5104.2	4216.5	1799.9	630.0	571.1	548.9	542.2	546.6	544.4	544.4	543.3
37.5°	5496.4	4389.8	1478.8	574.4	531.1	507.8	498.9	505.5	503.3	503.3	502.2
40°	5974.2	4642.0	1173.3	532.2	492.2	467.8	460.0	463.3	457.8	457.8	460.0
42.5°	6564.2	4962.0	906.6	491.1	453.3	430.0	425.5	422.2	412.2	406.6	407.8
45°	7219.7	5295.3	706.6	451.1	416.6	397.8	391.1	382.2	365.5	354.4	355.5
47.5°	7805.2	5552.0	574.4	412.2	383.3	368.9	358.9	342.2	317.8	304.4	305.5
50°	8113.0	5590.9	488.9	373.3	352.2	337.8	323.3	297.8	268.9	254.4	253.3
52.5°	8191.9	5408.7	425.5	337.8	321.1	304.4	285.5	251.1	218.9	203.3	201.1
55°	8220.8	5130.9	368.9	304.4	287.8	268.9	244.4	205.5	175.5	160.0	158.9
57.5°	8125.2	4716.5	324.4	274.4	254.4	231.1	201.1	164.4	135.5	123.3	123.3
60°	7913.0	4155.4	290.0	242.2	220.0	193.3	162.2	127.8	101.1	91.1	91.1
62.5°	7489.7	3428.7	257.8	208.9	187.8	160.0	131.1	96.7	71.1	65.6	66.7
65°	6690.8	2601.0	225.5	178.9	160.0	132.2	102.2	68.9	47.8	47.8	50.0
67.5°	5456.4	1806.6	192.2	152.2	137.8	107.8	77.8	47.8	33.3	37.8	42.2
70°	3612.1	1013.3	164.4	125.6	117.8	85.6	57.8	32.2	26.7	35.6	43.3
72.5°	1363.3	394.4	137.8	101.1	102.2	65.6	41.1	24.4	24.4	38.9	51.1
75°	380.0	193.3	98.9	74.4	80.0	47.8	30.0	21.1	23.3	44.4	60.0
77.5°	223.3	142.2	64.4	43.3	54.4	33.3	20.0	16.7	20.0	37.8	57.8
80°	180.0	75.6	37.8	22.2	30.0	18.9	13.3	10.0	5.6	14.4	30.0
82.5°	180.0	45.6	17.8	15.6	15.6	10.0	6.7	4.4	1.1	0.0	7.8
85°	121.1	18.9	11.1	10.0	7.8	3.3	2.2	1.1	0.0	0.0	0.0
87.5°	20.0	7.8	4.4	2.2	1.1	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)