

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: P383710

Luminaire Tested: **GAN-SA9D-735-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383710  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9D-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47088.8 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

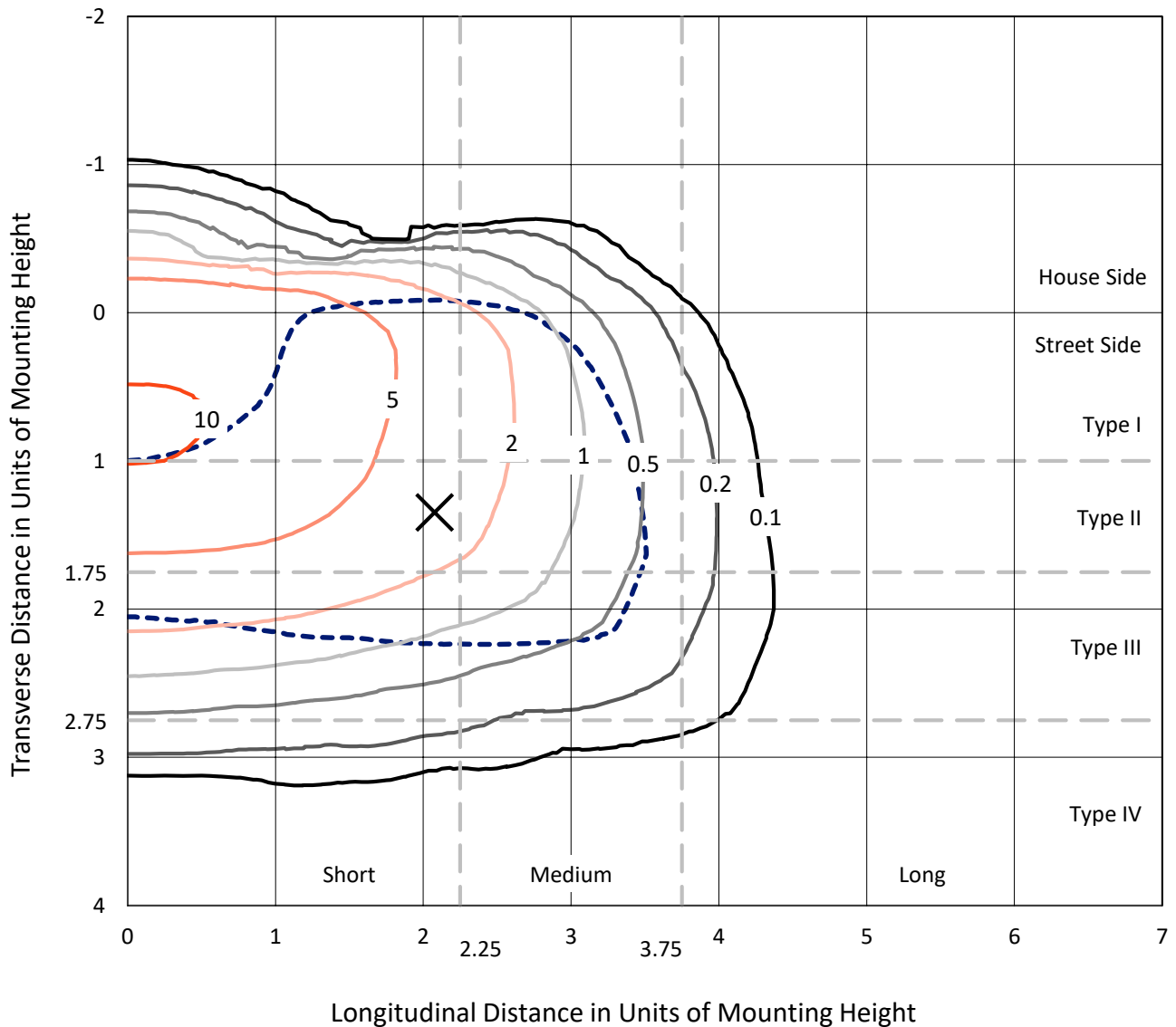
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

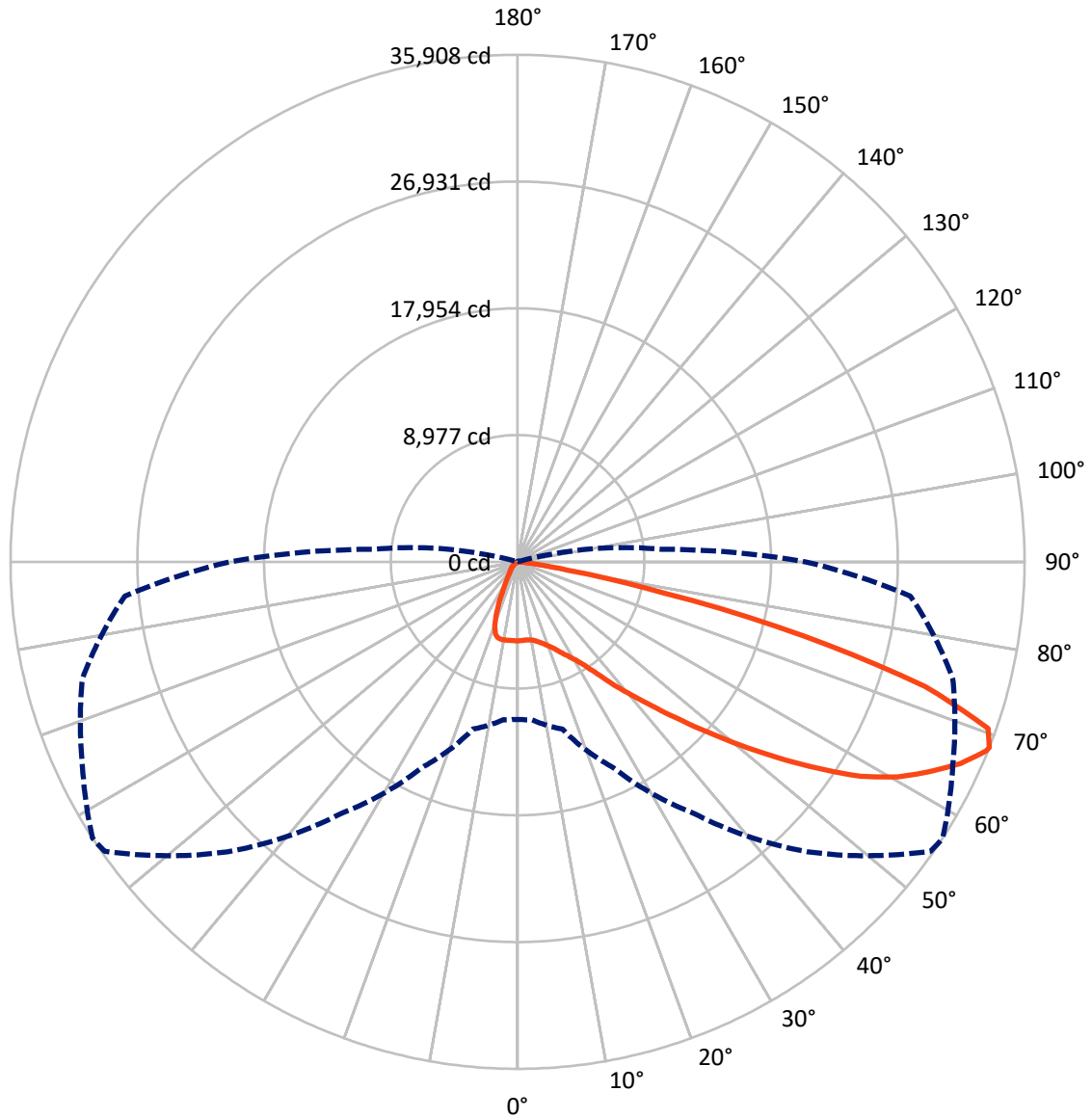
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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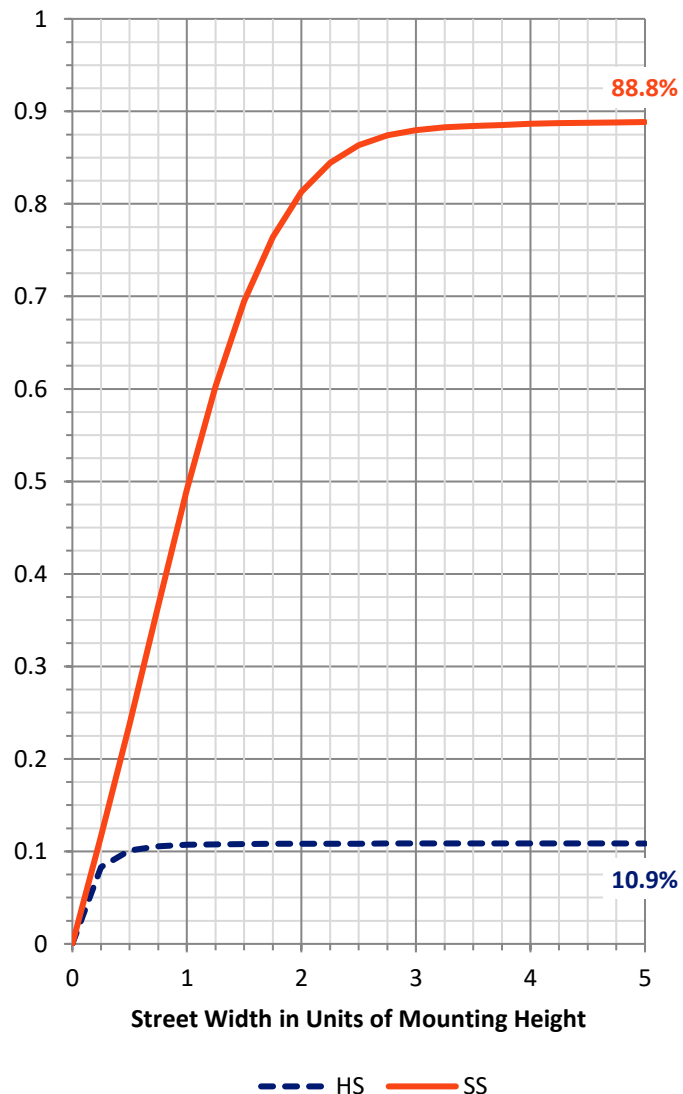
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5163.6	0.0	5163.6
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	41925.2	0.0	41925.2
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	47088.8	0.0	47088.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	523.6	1.1
10°-20°	1451.1	3.1
20°-30°	2503.2	5.3
30°-40°	4320.4	9.2
40°-50°	7390.2	15.7
50°-60°	11823.6	25.1
60°-70°	13660.9	29.0
70°-80°	5220.0	11.1
80°-90°	195.7	0.4
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°	47088.8	100.0
0°-180°	47088.8	100.0

**Coefficient of Utilization**



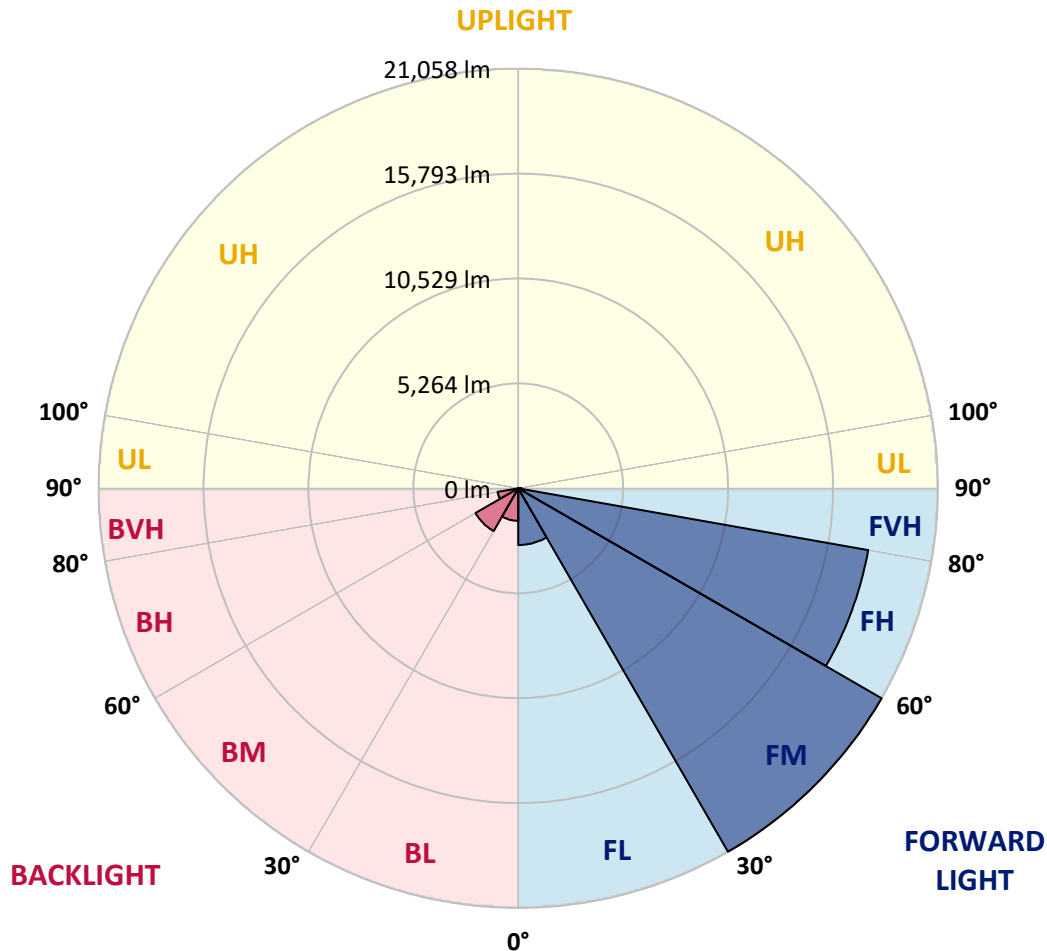
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2846.1	6.0			
FM (30°-60°)	21057.7	44.7			
FH (60°-80°)	17829.3	37.9			G5
FVH (80°-90°)	192.1	0.4			G2/225
BL (0°-30°)	1631.9	3.5	B3/2500		
BM (30°-60°)	2476.5	5.3	B2/2500		
BH (60°-80°)	1051.6	2.2	B3/2500		G3/2500
BVH (80°-90°)	3.6	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-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4
2.5°	5464.0	5488.5	5506.3	5517.5	5530.8	5559.8	5568.7	5582.0	5588.7	5588.7	5604.3
5°	5248.1	5274.8	5312.6	5343.8	5406.1	5486.3	5544.2	5566.5	5606.5	5642.1	5662.2
7.5°	5047.7	5078.8	5123.3	5196.8	5303.7	5432.9	5553.0	5584.3	5662.2	5737.9	5775.8
10°	4918.5	4943.0	5000.9	5105.5	5245.8	5426.2	5595.4	5633.3	5766.8	5893.7	5965.0
12.5°	4874.0	4896.2	4956.4	5074.3	5248.1	5459.6	5693.3	5749.0	5945.0	6129.8	6230.0
15°	4938.5	4943.0	5007.5	5118.9	5290.4	5542.0	5855.9	5922.7	6169.8	6410.4	6535.0
17.5°	5187.9	5167.9	5201.3	5250.3	5386.1	5651.0	6027.4	6127.5	6457.1	6739.8	6857.9
20°	5811.4	5811.4	5735.6	5602.0	5604.3	5820.3	6258.9	6372.4	6775.5	7102.8	7209.6
22.5°	6877.9	6857.9	6706.5	6379.1	6078.5	6112.0	6541.7	6688.6	7158.5	7508.0	7543.7
25°	8160.5	8136.0	7902.1	7441.2	6920.2	6584.0	6924.7	7093.9	7614.9	7924.4	7850.9
27.5°	9518.6	9498.6	9267.0	8694.8	7953.4	7336.6	7381.1	7541.4	8080.2	8385.3	8151.5
30°	10834.6	10841.2	10611.9	10024.0	9184.6	8296.3	7960.0	8053.5	8532.2	8841.8	8507.7
32.5°	12085.9	12094.7	11896.6	11239.8	10456.0	9411.7	8761.6	8737.1	9057.7	9362.8	8979.7
35°	13201.4	13223.7	13087.9	12577.9	11747.5	10654.2	9801.4	9743.5	9803.6	10148.7	9703.5
37.5°	14276.8	14290.2	14187.7	13758.0	13063.4	12019.1	11115.0	11032.7	10903.6	11168.5	10658.7
40°	15454.7	15421.3	15303.3	14913.6	14316.9	13526.4	12526.7	12384.3	12159.3	12395.4	11914.4
42.5°	16550.2	16512.3	16532.4	16091.5	15588.2	15076.2	14172.2	13927.3	13795.8	14067.5	13455.2
45°	17919.5	17899.5	17966.3	17583.3	17175.8	16804.0	16058.1	15790.8	15733.0	16051.4	15318.8
47.5°	19271.0	19320.0	19527.1	19364.5	19199.8	18872.5	18055.3	17935.1	17970.7	18355.9	17285.0
50°	20397.7	20455.6	21023.4	21210.4	21448.6	21257.2	20437.8	20364.3	20504.6	20851.9	19400.1
52.5°	21212.6	21330.6	22036.4	22898.1	23766.5	23895.6	23078.4	23011.6	23200.9	23254.4	21034.4
55°	21778.2	21882.8	22682.2	24258.5	26026.5	26583.1	26075.4	25817.2	25781.5	25253.9	22753.4
57.5°	21878.3	21867.2	23016.1	25138.1	27798.9	29234.9	28914.3	28660.6	27930.2	27101.9	24723.9
60°	21312.8	21377.3	22711.1	25443.1	28912.2	31241.1	31265.6	30936.0	29798.3	28898.7	26634.3
62.5°	19571.6	19834.3	21181.4	24643.8	28898.7	32049.3	32989.0	32737.4	31376.9	30370.5	28571.5
65°	16748.3	16841.8	18126.6	21905.1	26946.0	31710.9	34540.9	34447.4	32799.7	31800.0	29566.8
67.5°	12230.6	12028.0	13377.3	17249.3	22813.5	29738.2	35654.2	35772.2	33897.4	32093.9	28506.8
68°	11161.8	11222.0	12272.9	16098.2	21731.4	29041.3	35727.6	35908.0	34006.5	31902.4	27928.0
70°	6653.0	6768.8	7706.2	11083.9	16532.4	25098.0	34935.0	35346.9	33356.4	29927.5	24156.1
72.5°	1698.9	1836.9	2723.1	4960.8	9442.9	17683.5	29491.0	30187.9	28961.1	24278.6	16307.5
75°	699.1	734.8	973.0	1634.3	3518.0	7966.7	19438.0	20929.8	20077.1	14535.1	7369.9
77.5°	483.2	507.7	625.6	906.2	1523.0	2700.8	9529.7	10607.4	9556.5	4960.8	1607.6
80°	347.4	367.4	447.5	603.4	875.0	964.2	3106.1	3591.5	2852.2	1088.8	398.5
82.5°	207.1	222.6	334.0	429.7	532.2	460.9	772.6	877.2	826.1	541.0	178.1
85°	102.4	120.3	224.9	307.2	287.2	193.7	236.1	262.7	325.1	329.5	95.8
87.5°	6.7	13.3	131.3	184.8	80.1	44.5	69.0	84.6	115.8	162.6	40.1
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°	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4	5595.4
2.5°	5611.0	5613.2	5597.6	5591.0	5595.4	5568.7	5557.5	5562.0	5562.0	5568.7	5557.5
5°	5666.6	5666.6	5640.0	5604.3	5584.3	5533.0	5499.7	5490.7	5484.0	5479.6	5470.7
7.5°	5786.9	5773.5	5726.8	5648.8	5582.0	5470.7	5386.1	5341.6	5319.3	5310.4	5303.7
10°	5980.6	5956.1	5878.2	5733.4	5579.8	5381.6	5196.8	5065.5	4956.4	4911.9	4885.1
12.5°	6241.1	6205.5	6074.1	5833.6	5564.2	5199.1	4798.3	4413.1	4054.6	3907.7	3834.2
15°	6541.7	6490.5	6283.4	5918.2	5472.9	4787.1	3916.5	3241.9	2745.4	2558.3	2478.2
17.5°	6846.7	6779.9	6466.0	5971.7	5199.1	3934.4	2747.6	2075.2	1743.4	1654.3	1623.2
20°	7154.0	7056.0	6624.0	5931.6	4580.0	2836.7	1812.4	1516.3	1420.5	1393.9	1384.9
22.5°	7445.7	7294.3	6766.6	5775.8	3627.1	1903.7	1433.9	1340.4	1309.2	1293.6	1289.2
25°	7699.5	7488.0	6891.2	5294.8	2567.3	1438.4	1291.4	1260.2	1220.1	1191.3	1193.4
27.5°	7937.7	7681.7	6967.0	4502.2	1712.3	1229.1	1195.6	1153.3	1079.8	1037.6	1037.6
30°	8225.0	7940.0	7022.7	3464.5	1260.2	1086.6	1059.8	995.3	895.1	839.4	839.4
32.5°	8657.0	8331.9	6987.0	2431.4	1044.3	955.2	892.9	803.8	694.7	641.3	639.0
35°	9318.3	8937.5	6733.1	1594.3	921.8	830.5	730.3	621.2	525.5	481.0	478.7
37.5°	10208.8	9748.0	6163.2	1140.0	826.1	714.8	594.5	474.3	403.0	374.1	371.9
40°	11364.4	10689.8	5348.2	924.0	737.0	603.4	458.7	367.4	318.4	296.1	298.4
42.5°	12751.6	11698.5	4370.7	797.1	650.1	496.5	358.5	289.4	258.3	242.7	238.3
45°	14292.4	12693.7	3346.6	710.3	563.3	400.8	280.6	229.3	204.8	195.9	195.9
47.5°	15986.8	13662.3	2449.2	634.6	469.8	309.5	224.9	187.1	167.0	160.3	158.1
50°	17525.4	14334.7	1765.7	554.5	385.2	244.9	182.6	155.8	142.5	133.6	133.6
52.5°	18807.9	14546.2	1300.3	467.5	311.7	195.9	151.4	133.6	120.3	113.6	113.6
55°	19936.8	14459.4	966.3	385.2	251.6	160.3	129.1	113.6	102.4	95.8	95.8
57.5°	21018.9	14178.8	721.4	313.9	202.6	129.1	109.1	95.8	84.6	80.1	80.1
60°	21902.8	13711.3	536.6	253.8	162.6	104.6	91.3	78.0	69.0	62.3	62.3
62.5°	22619.8	13194.7	394.1	209.3	129.1	82.3	71.3	64.6	51.2	44.5	44.5
65°	22624.2	12337.5	296.1	173.6	100.2	64.6	53.5	51.2	33.4	26.7	24.5
67.5°	20987.8	10636.3	227.1	149.1	78.0	49.0	40.1	42.3	17.8	11.2	8.9
68°	20393.3	10204.5	213.8	147.0	73.5	46.8	37.8	42.3	15.6	8.9	6.7
70°	17193.7	8118.1	171.4	142.5	64.6	35.6	31.2	42.3	13.3	6.7	4.5
72.5°	10997.1	4711.4	126.9	113.6	49.0	26.7	20.0	37.8	13.3	4.5	2.2
75°	4680.3	1460.7	86.8	80.1	29.0	20.0	13.3	24.5	8.9	2.2	0.0
77.5°	986.4	329.5	51.2	49.0	20.0	13.3	8.9	6.7	2.2	0.0	0.0
80°	253.8	95.8	26.7	24.5	11.2	6.7	4.5	0.0	0.0	0.0	0.0
82.5°	80.1	37.8	15.6	11.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.1	22.3	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.3	6.7	2.2	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)