

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: P318702

Luminaire Tested: **GAN-SA8D-730-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318702  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8D-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 56970 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

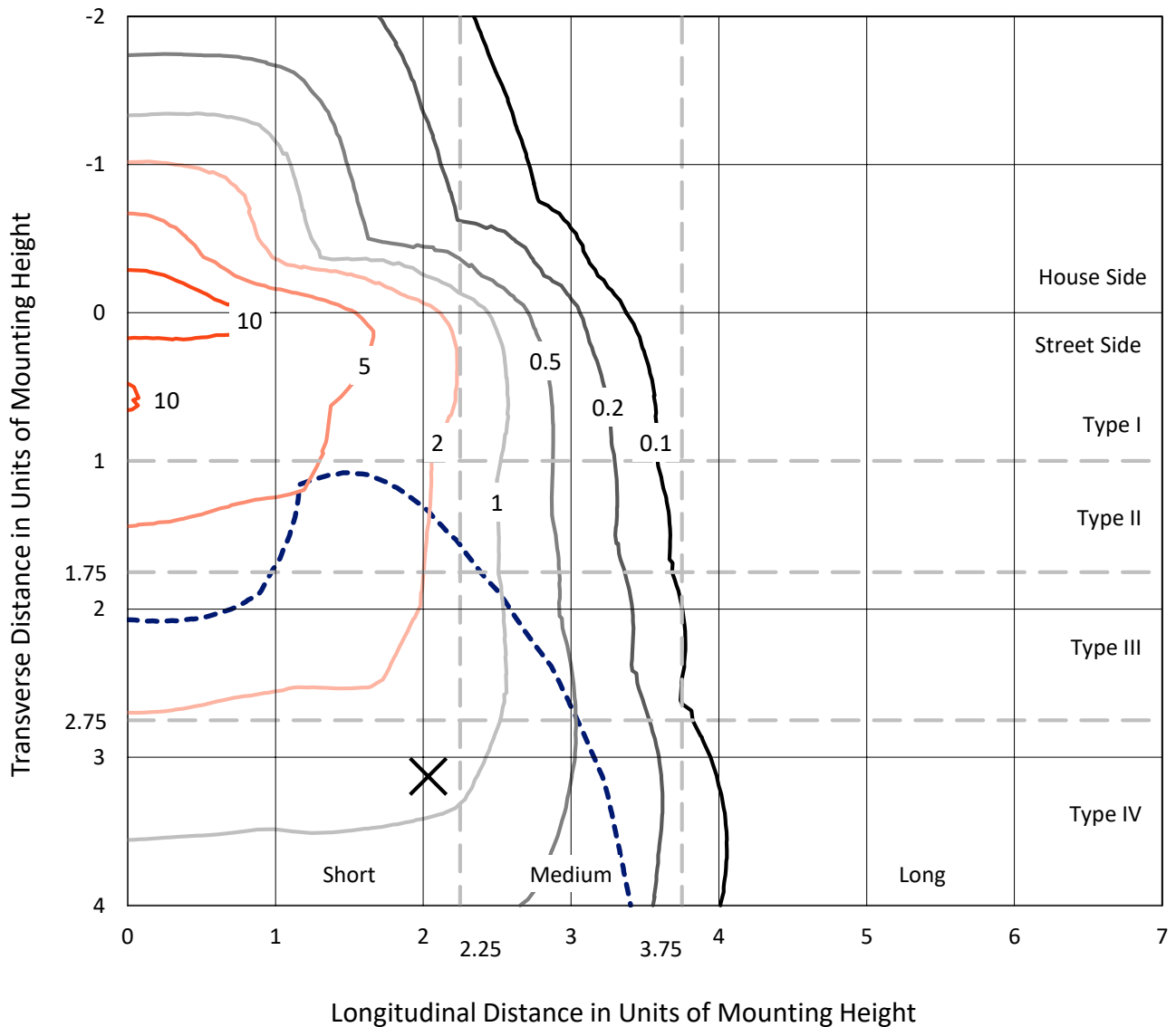
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

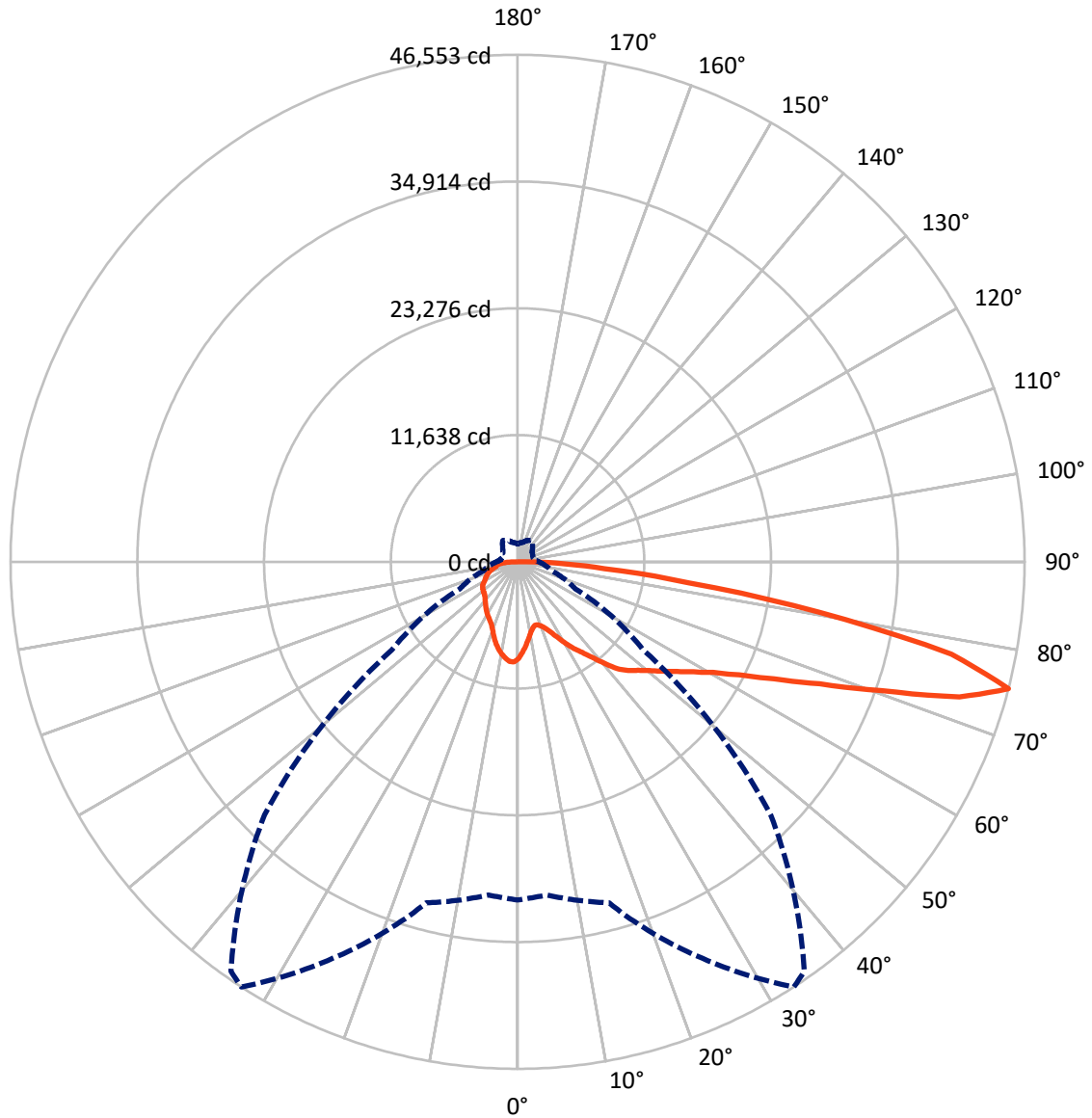
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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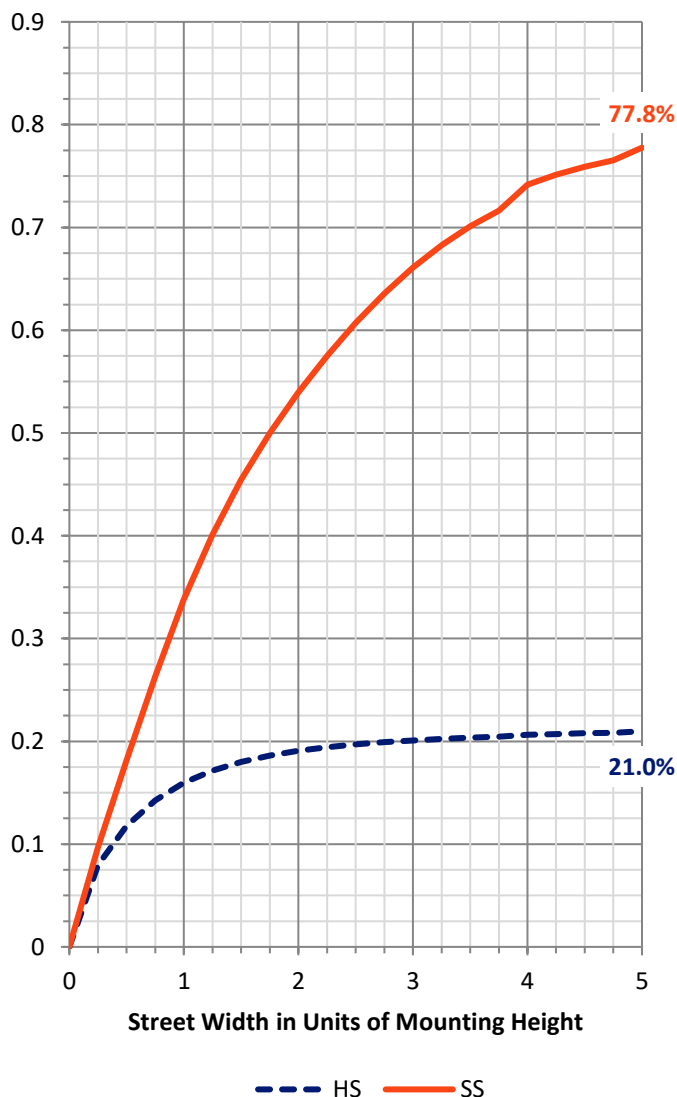
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12233.0	0.0	12233.0
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	44737.0	0.0	44737.0
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	56970.0	0.0	56970.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	805.3	1.4
10°-20°	2181.1	3.8
20°-30°	3562.1	6.3
30°-40°	5304.9	9.3
40°-50°	7608.6	13.4
50°-60°	10445.4	18.3
60°-70°	13077.2	23.0
70°-80°	11830.3	20.8
80°-90°	2155.0	3.8
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°	56970.0	100.0
0°-180°	56970.0	100.0

**Coefficient of Utilization**

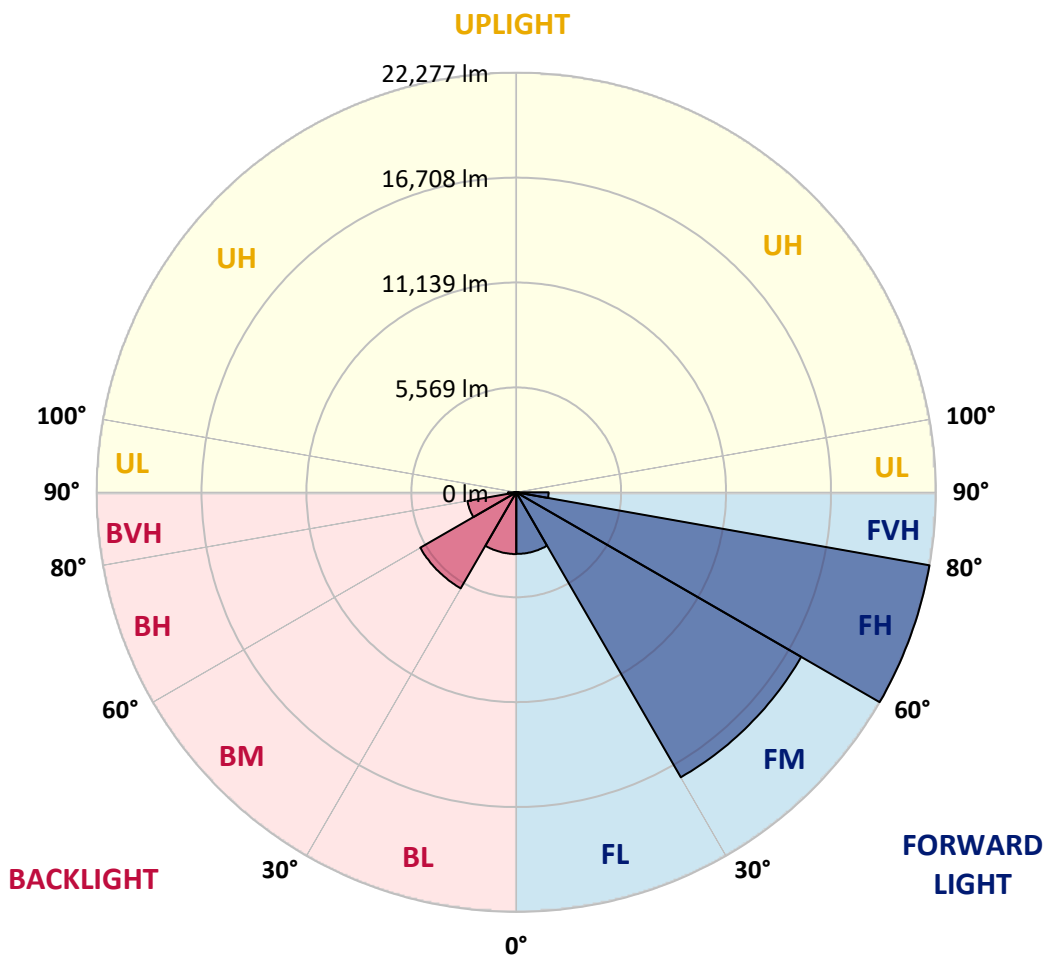


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3272.1	5.7			
FM (30°-60°)	17471.5	30.7			
FH (60°-80°)	22277.2	39.1			G5
FVH (80°-90°)	1716.2	3.0			G5
BL (0°-30°)	3276.6	5.8	B4/5000		
BM (30°-60°)	5887.4	10.3	B4/8500		
BH (60°-80°)	2630.3	4.6	B4/5000		G4/5000
BVH (80°-90°)	438.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	8904.7	8904.7	8904.7	8904.7	8904.7	8904.7	8904.7	8904.7	8904.7	8904.7	8904.7
2.5°	8269.1	8237.6	8296.7	8304.5	8355.7	8375.4	8446.2	8556.4	8646.9	8751.2	8845.7
5°	7519.3	7497.7	7580.3	7639.4	7751.5	7798.8	7966.0	8200.2	8408.8	8645.0	8859.5
7.5°	6807.0	6795.1	6887.6	7021.5	7151.3	7216.3	7505.6	7846.0	8194.3	8576.1	8904.7
10°	6206.7	6202.8	6291.4	6423.2	6614.1	6686.9	7060.8	7509.5	7997.5	8523.0	8981.5
12.5°	5870.2	5884.0	5925.3	6035.5	6212.6	6285.5	6700.7	7228.1	7832.2	8505.2	9093.6
15°	5952.9	5974.5	5903.7	5899.8	6025.7	6082.8	6472.4	7027.4	7714.2	8534.8	9257.0
17.5°	6305.1	6309.1	6122.1	6004.1	6080.8	6110.3	6401.6	6913.2	7645.3	8601.7	9461.6
20°	6801.0	6791.2	6460.6	6263.8	6305.1	6313.0	6501.9	6915.2	7639.4	8717.8	9727.3
22.5°	7458.3	7385.5	6940.8	6673.1	6663.3	6651.5	6759.7	7060.8	7726.0	8906.7	10044.1
25°	8316.3	8247.5	7635.4	7269.4	7190.7	7161.2	7176.9	7371.7	7897.2	9109.4	10398.4
27.5°	9270.8	9150.7	8560.3	8042.8	7879.5	7838.1	7743.7	7810.6	8084.1	9304.2	10819.5
30°	10069.7	10004.8	9489.2	8875.2	8682.4	8623.3	8375.4	8302.6	8353.7	9569.9	11350.8
32.5°	10516.4	10473.1	10160.2	9664.3	9485.3	9402.6	9052.3	8906.7	8786.7	9989.0	12071.1
35°	11057.6	11030.1	10841.1	10481.0	10215.3	10128.8	9857.2	9705.7	9396.7	10565.6	13001.9
37.5°	11746.4	11716.9	11720.8	11429.5	11112.7	11032.0	10852.9	10693.5	10187.8	11323.3	14013.4
40°	12525.7	12468.6	12446.9	12433.2	12232.4	12187.2	12092.7	11876.3	11179.6	12228.5	15011.1
42.5°	13698.5	13495.8	13062.9	13226.2	13425.0	13401.4	13478.1	13167.2	12281.6	13299.0	15985.2
45°	14830.1	14497.5	13749.7	13785.1	14220.0	14351.9	14926.5	14706.1	13476.2	14471.9	16992.8
47.5°	15345.7	15093.8	14458.1	14460.1	14891.1	15164.6	16424.1	16266.6	14731.7	15804.2	18222.7
50°	15922.2	15670.4	15099.7	15314.2	15690.0	15981.3	17870.5	17789.8	15926.2	17262.4	19696.7
52.5°	16552.0	16124.9	15762.8	16146.6	16674.0	17012.5	19318.8	19098.4	17022.3	18730.4	21391.0
55°	16559.8	16443.7	16719.2	17000.7	17789.8	18205.0	20836.1	20253.6	17915.7	20172.9	22770.5
57.5°	17502.5	17313.6	17898.0	18027.9	19059.1	19527.4	22345.5	21259.2	18824.9	21278.9	23514.4
60°	18750.1	18588.7	19066.9	19409.4	20629.5	21255.2	23957.2	22292.3	19539.2	22113.2	23479.0
62.5°	20905.0	20721.9	20716.0	21196.2	22839.4	23567.5	25765.7	23305.8	19822.6	22278.6	22477.3
65°	24059.5	23768.3	23219.2	23447.5	25891.6	26617.8	27786.7	24039.8	19448.7	21393.0	19897.4
67.5°	27129.4	27119.6	26444.6	26912.9	29921.9	30504.4	30089.1	24112.6	18281.8	18309.3	15320.1
70°	30189.5	30228.9	30114.7	31744.1	35367.0	35973.1	32541.1	23134.6	15658.6	13222.3	9178.3
72.5°	32613.9	32604.1	33178.7	37380.2	42433.7	42298.0	34607.4	20170.9	11242.6	7137.6	4386.4
75°	31043.6	30701.1	32413.2	40170.7	46552.6	45889.4	32850.1	14070.5	5834.8	3249.0	2361.5
77.5°	20247.7	20572.4	23085.4	33184.6	40719.7	39912.9	24100.8	6564.9	2749.2	2131.2	1712.1
80°	7332.4	7674.8	10809.7	18797.3	28054.3	27922.5	11868.4	2698.0	1859.7	1609.7	1247.6
82.5°	2522.8	2648.8	4264.4	8347.8	15839.6	16430.0	4465.2	1533.0	1351.9	1141.4	854.1
85°	989.9	1133.5	1950.2	4016.5	7989.7	8048.7	1808.5	917.0	940.7	747.8	468.4
87.5°	375.9	456.6	932.8	1865.6	3648.5	3351.3	647.4	436.9	535.3	444.7	222.4
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°	8904.7	8904.7	8904.7	8904.7	8904.7	8904.7	8904.7	8904.7	8904.7	8904.7	8904.7
2.5°	8918.5	8959.8	9046.4	9105.5	9168.4	9186.1	9194.0	9209.8	9225.5	9219.6	9221.6
5°	8973.6	9054.3	9194.0	9253.0	9280.6	9249.1	9188.1	9138.9	9103.5	9083.8	9077.9
7.5°	9064.1	9178.3	9327.8	9318.0	9255.0	9115.3	8957.9	8839.8	8741.4	8706.0	8686.3
10°	9184.2	9318.0	9422.3	9310.1	9127.1	8885.1	8648.9	8465.9	8318.3	8261.2	8251.4
12.5°	9337.7	9473.5	9493.1	9255.0	8952.0	8621.4	8300.6	8058.5	7838.1	7767.3	7751.5
15°	9536.4	9664.3	9542.3	9158.6	8735.5	8290.7	7875.5	7546.9	7314.7	7228.1	7196.6
17.5°	9745.0	9867.0	9552.2	8999.2	8452.1	7899.1	7377.6	7041.1	6775.5	6675.1	6663.3
20°	9994.9	10050.0	9510.8	8770.9	8062.5	7391.4	6842.4	6525.5	6383.9	6313.0	6305.1
22.5°	10303.9	10244.9	9416.4	8462.0	7568.5	6805.0	6358.3	6210.7	6175.3	6159.5	6165.4
25°	10630.6	10449.5	9276.7	8058.5	6944.7	6218.6	6004.1	6045.4	6092.6	6086.7	6086.7
27.5°	10990.7	10658.1	9062.2	7523.3	6254.0	5738.4	5764.0	5915.5	5986.3	5984.4	5982.4
30°	11453.2	10894.3	8788.6	6879.8	5608.5	5399.9	5555.4	5740.4	5836.8	5832.8	5834.8
32.5°	12021.9	11154.0	8416.7	6161.5	5142.1	5150.0	5329.1	5512.1	5624.2	5614.4	5616.4
35°	12687.0	11445.3	7912.9	5453.0	4833.2	4951.2	5092.9	5220.8	5327.1	5313.3	5299.5
37.5°	13411.2	11730.6	7243.8	4819.4	4581.3	4766.2	4884.3	4906.0	4955.2	4919.7	4894.2
40°	14100.0	11949.1	6381.9	4299.9	4327.4	4608.8	4685.6	4599.0	4510.4	4498.6	4463.2
42.5°	14700.2	12021.9	5510.1	3884.6	4059.8	4443.5	4490.7	4309.7	4150.3	4075.5	4044.0
45°	15333.8	12047.5	4697.4	3536.3	3802.0	4295.9	4347.1	4105.0	3880.7	3719.3	3666.2
47.5°	16162.3	12232.4	4065.7	3278.5	3605.2	4197.5	4270.3	3941.7	3650.4	3420.2	3371.0
50°	17246.6	12598.5	3552.1	3081.7	3477.3	4132.6	4215.2	3782.3	3461.5	3184.1	3134.9
52.5°	18451.0	12935.0	3136.8	2922.3	3353.3	4018.4	4144.4	3668.2	3284.4	2965.6	2912.5
55°	19293.3	12677.2	2802.3	2757.0	3191.9	3855.1	4046.0	3571.7	3030.6	2753.1	2705.9
57.5°	19454.6	11795.6	2548.4	2585.8	2997.1	3650.4	3894.5	3357.2	2892.8	2660.6	2611.4
60°	19013.8	10567.6	2359.5	2428.4	2788.5	3392.7	3611.1	3205.7	2761.0	2562.2	2520.9
62.5°	17905.9	9310.1	2219.8	2286.7	2593.7	3130.9	3434.0	3046.3	2627.1	2450.0	2408.7
65°	15668.4	7816.5	2086.0	2160.8	2412.6	2904.6	3274.6	2898.7	2495.3	2359.5	2320.1
67.5°	11827.1	5854.5	1960.0	2026.9	2251.3	2707.8	3101.4	2753.1	2367.4	2280.8	2233.6
70°	6964.4	3666.2	1816.4	1887.2	2082.0	2503.2	2916.4	2593.7	2208.0	2168.6	2107.6
72.5°	3241.1	2206.0	1653.0	1721.9	1869.5	2229.6	2678.3	2385.1	2019.1	1932.5	1849.8
75°	1934.4	1613.7	1460.2	1521.2	1625.5	1938.4	2379.2	2172.6	1840.0	1725.8	1639.3
77.5°	1446.4	1233.9	1247.6	1312.6	1397.2	1696.3	2107.6	2005.3	1702.2	1613.7	1554.6
80°	1041.0	936.7	1017.4	1088.2	1176.8	1542.8	2019.1	1853.8	1538.9	1420.8	1365.7
82.5°	694.7	673.0	765.5	838.3	924.9	1350.0	1897.1	1623.5	1314.6	1165.0	1043.0
85°	383.7	405.4	515.6	547.1	621.9	950.5	1554.6	1304.7	989.9	797.0	761.6
87.5°	159.4	187.0	277.5	267.6	330.6	566.8	1023.3	787.2	629.7	470.3	366.0
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)