

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: P383162

Luminaire Tested: **GAN-SA5A-735-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383162  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22260.3 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

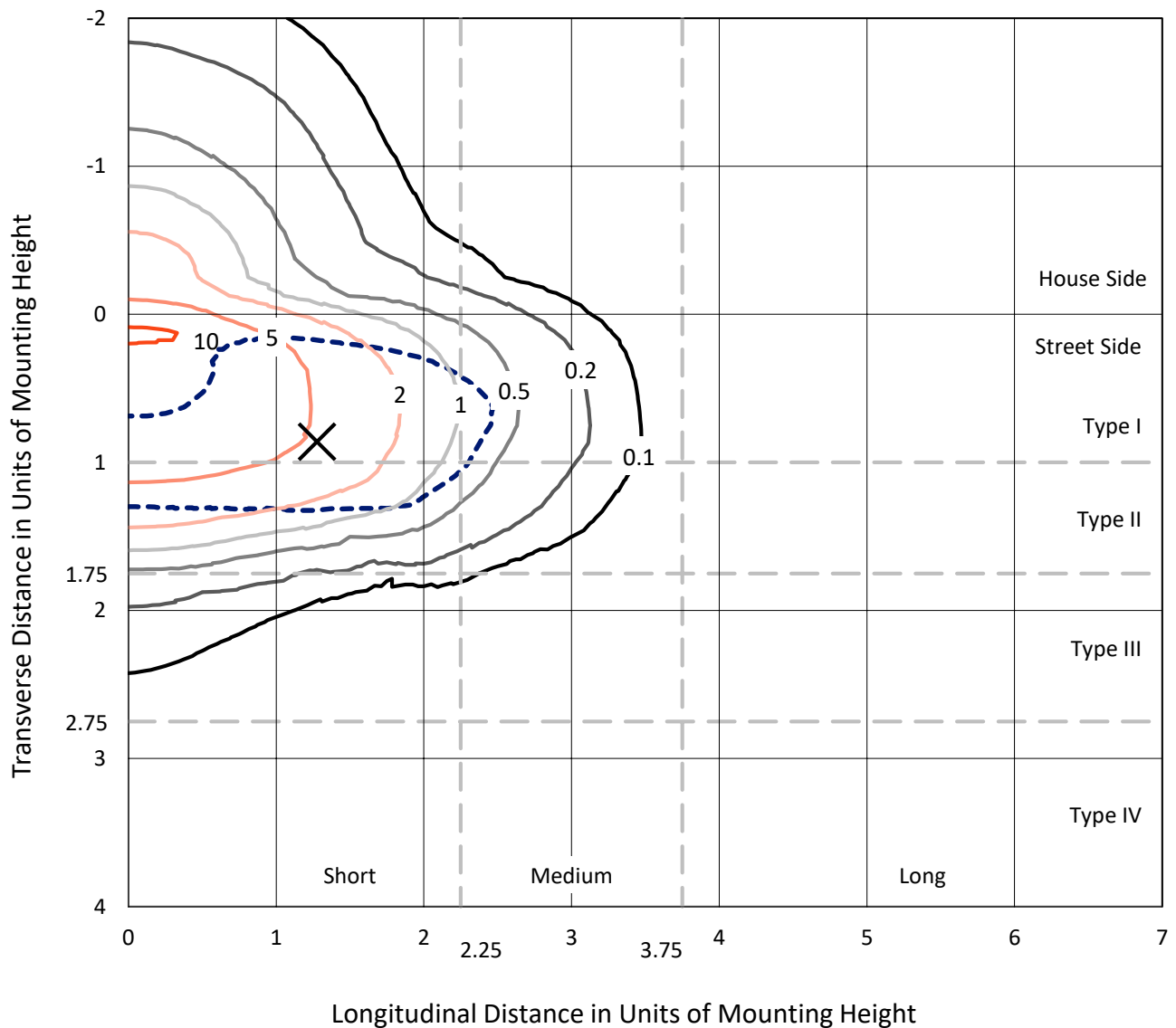
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

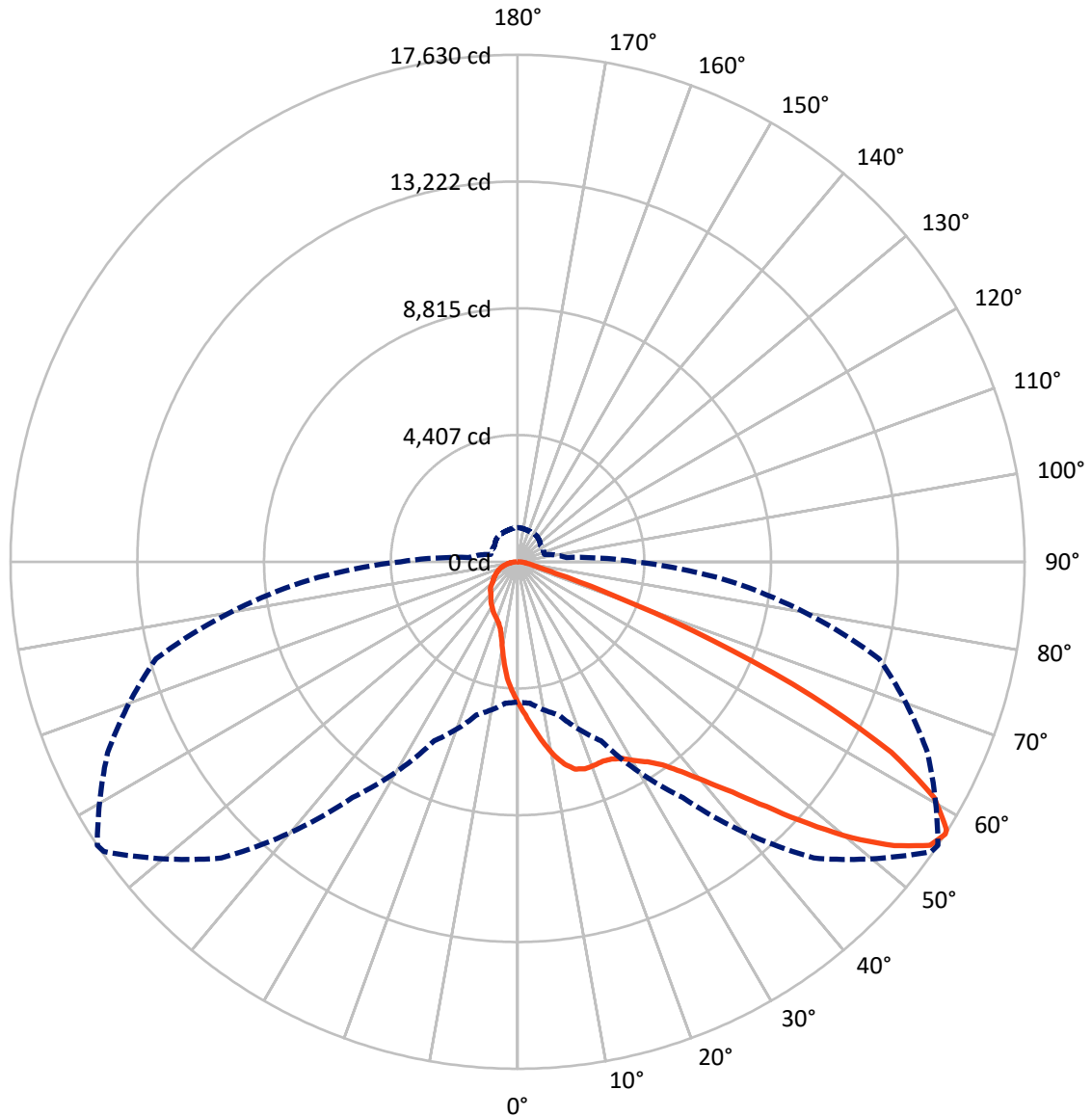
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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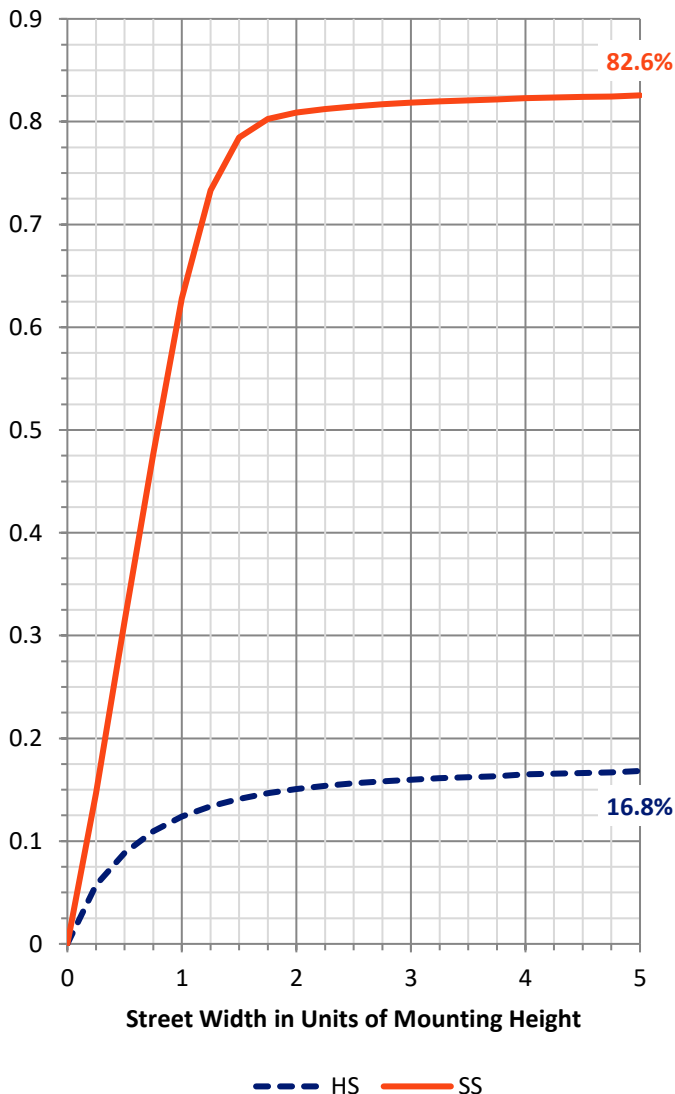
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3837.2	0.0	3837.2
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	18423.1	0.0	18423.1
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	22260.3	0.0	22260.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	471.6	2.1
10°-20°	1333.4	6.0
20°-30°	2171.9	9.8
30°-40°	3246.8	14.6
40°-50°	4924.7	22.1
50°-60°	5519.7	24.8
60°-70°	3260.1	14.6
70°-80°	1068.1	4.8
80°-90°	263.9	1.2
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°	22260.3	100.0
0°-180°	22260.3	100.0

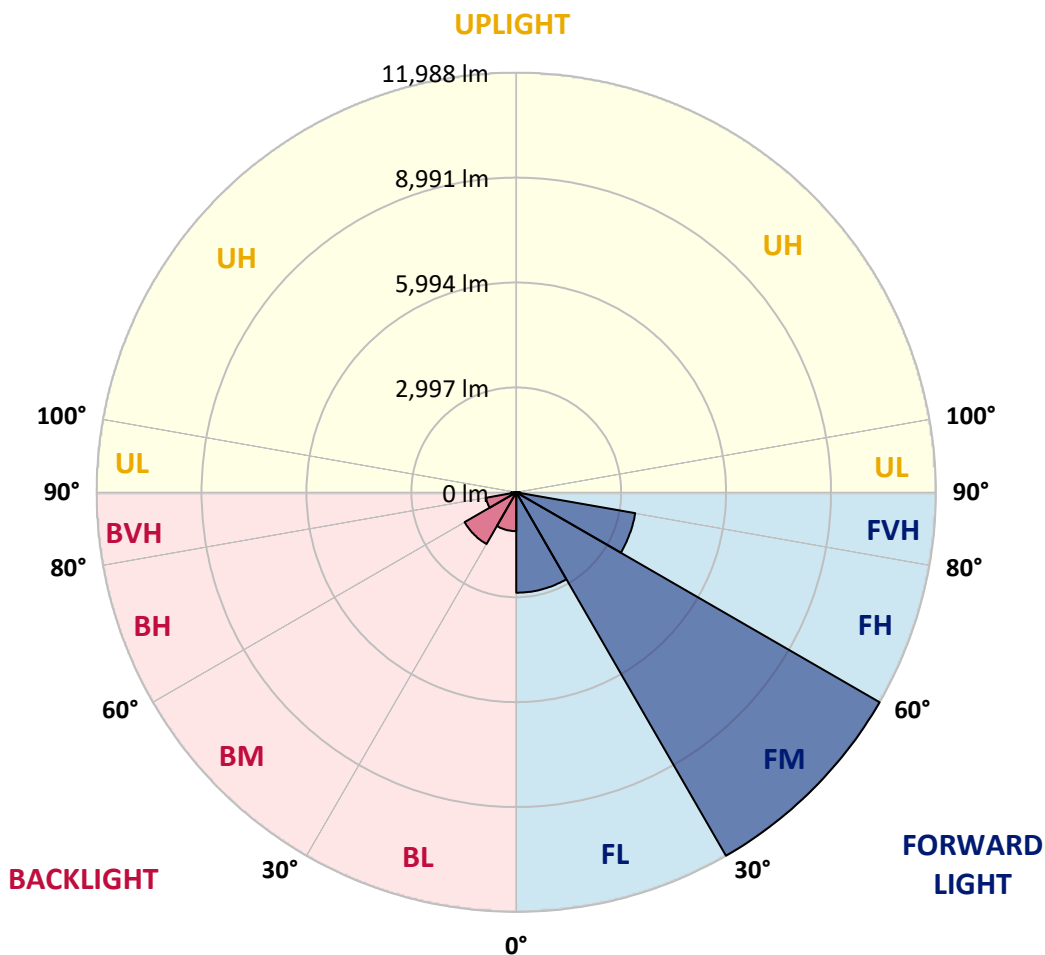


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2867.5	12.9			
FM (30°-60°)	11987.9	53.9			
FH (60°-80°)	3451.5	15.5			G2/5000
FVH (80°-90°)	116.2	0.5			G2/225
BL (0°-30°)	1109.5	5.0	B3/2500		
BM (30°-60°)	1703.2	7.7	B2/2500		
BH (60°-80°)	876.7	3.9	B2/1000		G2/1000
BVH (80°-90°)	147.7	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4937.4	4937.4	4937.4	4937.4	4937.4	4937.4	4937.4	4937.4	4937.4	4937.4	4937.4
2.5°	5669.5	5721.5	5698.6	5619.0	5557.8	5471.4	5374.9	5345.9	5244.1	5130.1	4993.2
5°	6566.9	6540.8	6503.3	6379.4	6248.5	6096.3	5854.6	5816.3	5589.9	5332.1	5059.7
7.5°	7077.8	7075.6	7053.3	6980.6	6861.3	6662.4	6370.9	6325.9	5983.9	5569.3	5147.0
10°	7003.7	6998.3	7035.0	7110.7	7146.6	7105.4	6859.8	6814.6	6394.7	5831.7	5248.0
12.5°	6582.1	6585.2	6644.1	6803.2	7019.7	7279.8	7240.0	7217.8	6820.8	6128.5	5370.4
15°	6253.9	6260.8	6307.5	6445.9	6701.5	7173.5	7471.0	7478.7	7233.1	6455.9	5513.4
17.5°	6110.1	6124.6	6146.1	6243.2	6477.3	6961.5	7526.2	7567.4	7594.3	6795.5	5651.1
20°	6156.0	6169.7	6175.9	6237.8	6429.9	6833.0	7487.9	7562.1	7871.1	7115.3	5788.8
22.5°	6361.8	6370.2	6374.0	6390.1	6539.3	6869.8	7462.6	7540.7	8071.6	7402.2	5892.9
25°	6703.0	6696.9	6672.4	6651.7	6752.0	7015.1	7520.8	7595.0	8234.5	7662.3	5960.9
27.5°	7111.5	7103.8	7056.4	6999.8	7057.2	7241.6	7688.3	7747.2	8380.7	7905.6	5995.3
30°	7601.9	7582.0	7492.4	7425.2	7447.4	7581.2	7964.5	8018.0	8606.3	8181.7	6029.0
32.5°	8168.7	8147.3	8018.0	7906.3	7906.3	8018.0	8249.0	8293.4	8797.5	8493.9	6083.3
35°	8878.7	8851.8	8683.6	8496.2	8443.4	8500.0	8636.9	8668.2	9141.8	8887.1	6182.0
37.5°	9715.6	9679.6	9461.6	9210.7	9095.2	9092.1	9190.7	9255.0	9691.8	9403.4	6349.5
40°	10554.8	10529.6	10339.1	10141.7	9915.2	9842.5	9994.8	10014.7	10411.0	10044.5	6563.8
42.5°	11203.5	11198.9	11163.8	11189.7	10958.0	10811.1	10930.4	10946.4	11289.1	10738.4	6791.7
45°	11546.3	11553.9	11724.5	12102.4	12188.1	12081.0	12139.8	12144.5	12292.9	11438.4	7000.6
47.5°	11271.6	11311.4	11742.8	12588.2	13289.6	13645.4	13547.5	13604.1	13266.0	12039.7	7164.3
50°	10201.4	10250.3	10984.7	12371.7	13803.8	15159.4	15108.1	15095.1	14050.8	12480.3	7253.0
52.5°	8875.6	8913.9	9519.8	11246.4	13426.6	15996.3	16466.8	16399.4	14748.5	12810.0	7269.9
55°	6856.7	6916.5	7497.1	9000.3	11901.2	15676.5	17465.9	17405.4	15384.2	12982.9	7250.0
57°	4874.6	4937.4	5514.2	6869.0	10011.6	14569.5	17565.3	17629.5	15727.8	13012.0	7272.1
57.5°	4349.9	4414.0	4985.5	6301.4	9422.6	14169.4	17479.7	17586.7	15789.7	13007.4	7284.4
60°	2190.3	2214.7	2578.8	3517.5	5956.3	11455.1	16362.0	16638.1	15845.5	12782.5	7337.1
62.5°	1361.7	1344.1	1332.7	1620.2	2897.9	7596.5	14055.5	14587.1	14776.9	12237.8	7209.4
65°	1197.2	1164.3	1038.1	1015.2	1279.9	3689.6	10584.6	11246.4	12493.3	11379.4	6904.9
67.5°	1124.6	1092.4	950.2	864.5	865.2	1462.7	6571.4	7316.5	9732.4	9928.2	6186.6
70°	1049.6	1020.5	887.4	786.4	736.7	810.2	3023.3	3588.6	6344.2	7803.9	5170.6
72.5°	953.2	933.3	807.1	703.0	650.2	606.6	1157.4	1367.0	3672.8	5241.1	3590.9
75°	852.2	833.8	726.0	626.6	562.3	477.3	651.8	702.3	1865.9	2681.4	1767.9
77.5°	741.3	730.6	645.7	553.9	502.6	395.5	461.3	485.8	800.2	1149.8	886.6
80°	589.9	610.4	564.6	493.4	446.0	316.7	326.7	342.7	465.9	561.5	503.4
82.5°	384.1	419.9	442.2	400.8	367.2	249.4	234.8	241.7	303.7	342.7	218.8
85°	159.9	179.8	290.7	262.4	244.1	182.1	157.6	160.7	188.2	195.1	89.5
87.5°	71.2	75.7	127.7	120.1	103.3	62.7	67.4	73.4	100.2	94.8	34.5
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°	4937.4	4937.4	4937.4	4937.4	4937.4	4937.4	4937.4	4937.4	4937.4	4937.4	4937.4
2.5°	4942.0	4877.7	4767.5	4645.9	4546.4	4466.9	4386.6	4331.4	4267.2	4232.8	4215.2
5°	4945.8	4819.5	4587.8	4349.9	4137.2	3942.9	3757.7	3615.4	3482.3	3410.4	3390.5
7.5°	4961.8	4772.1	4397.3	4005.6	3627.6	3282.7	3016.4	2849.6	2729.5	2676.0	2660.7
10°	4974.8	4716.2	4161.6	3581.8	3067.7	2718.1	2511.5	2418.2	2376.8	2370.0	2363.1
12.5°	5005.4	4658.9	3913.8	3139.6	2632.4	2390.6	2318.7	2312.6	2324.1	2340.9	2340.9
15°	5053.6	4602.3	3630.7	2760.2	2355.4	2270.6	2285.1	2318.7	2350.1	2376.1	2379.9
17.5°	5088.9	4532.6	3326.3	2456.4	2207.8	2230.8	2282.8	2330.2	2362.3	2387.6	2389.9
20°	5114.1	4424.8	3001.1	2224.6	2122.9	2194.1	2259.1	2301.1	2323.3	2348.5	2352.4
22.5°	5101.1	4280.2	2712.7	2058.6	2054.1	2140.5	2202.5	2252.9	2236.1	2211.6	2227.7
25°	5038.4	4081.3	2415.9	1934.7	1981.4	2068.6	2145.1	2111.4	2054.8	2044.1	2050.2
27.5°	4926.7	3827.4	2141.3	1820.0	1897.2	2002.0	1997.4	1963.8	1943.9	1930.1	1938.6
30°	4806.5	3551.9	1901.0	1719.7	1803.8	1890.3	1872.7	1871.9	1852.1	1829.9	1840.6
32.5°	4687.9	3274.9	1710.5	1637.1	1733.5	1745.0	1783.3	1794.7	1755.7	1709.0	1705.9
35°	4584.7	3013.4	1565.9	1562.1	1648.6	1650.1	1705.9	1689.9	1592.8	1544.5	1544.5
37.5°	4507.4	2752.4	1455.8	1494.9	1536.9	1576.6	1605.0	1538.5	1522.3	1495.6	1494.9
40°	4473.8	2523.0	1387.0	1443.5	1458.1	1508.5	1435.9	1462.0	1469.6	1455.8	1455.8
42.5°	4438.5	2323.3	1327.3	1404.6	1402.3	1395.4	1358.7	1392.3	1422.9	1423.7	1421.4
45°	4403.3	2151.2	1274.5	1321.1	1353.3	1279.1	1286.0	1322.0	1364.8	1380.1	1380.1
47.5°	4364.4	2015.0	1226.3	1233.2	1282.9	1233.2	1227.9	1255.4	1305.8	1330.3	1335.7
50°	4278.7	1892.6	1171.2	1156.0	1169.7	1186.5	1191.1	1204.1	1259.9	1298.9	1308.2
52.5°	4160.1	1783.3	1100.8	1084.8	1084.8	1148.3	1169.7	1173.6	1221.0	1267.6	1276.8
55°	4061.5	1713.6	1028.1	1025.1	1022.1	1107.7	1144.4	1150.6	1183.4	1220.1	1224.8
57°	4068.3	1708.3	972.3	975.4	974.6	1066.4	1120.7	1133.7	1150.6	1181.9	1187.3
57.5°	4072.2	1712.1	960.1	961.6	960.9	1055.0	1113.9	1128.4	1141.4	1174.3	1179.6
60°	4129.5	1722.1	910.4	893.5	897.4	993.8	1074.8	1093.2	1101.6	1145.2	1152.1
62.5°	4044.6	1677.6	870.5	830.0	830.0	929.5	1020.5	1049.6	1062.6	1121.5	1132.9
65°	3798.3	1553.0	824.0	758.1	765.7	865.2	955.5	1002.9	1022.8	1096.2	1108.4
67.5°	3418.0	1408.4	774.2	693.8	701.5	797.9	888.1	939.5	970.8	1068.7	1078.6
70°	2923.1	1231.7	706.9	625.8	634.9	724.5	808.6	866.7	913.4	1042.7	1045.8
72.5°	2155.0	1009.8	612.8	550.8	560.8	638.8	728.3	795.6	858.3	977.7	976.2
75°	1281.3	789.5	508.7	475.1	482.0	554.6	655.6	737.5	831.6	952.4	966.9
77.5°	777.3	594.4	414.6	397.8	406.2	480.4	603.5	690.8	820.0	898.1	893.5
80°	469.7	424.6	331.3	320.5	328.9	410.8	558.5	655.6	716.8	767.3	767.3
82.5°	245.6	259.3	243.2	234.8	246.3	333.6	508.0	572.2	633.5	543.9	508.0
85°	100.2	135.4	147.7	146.9	153.8	231.0	438.4	489.6	408.5	387.9	397.0
87.5°	33.6	57.4	71.9	61.9	65.0	145.3	303.7	236.4	280.8	195.8	185.9
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)