

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: P382951

Luminaire Tested: **GAN-SA3A-735-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382951  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3A-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13005.3 lumens  
Efficiency: N/A  
Efficacy: 135.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

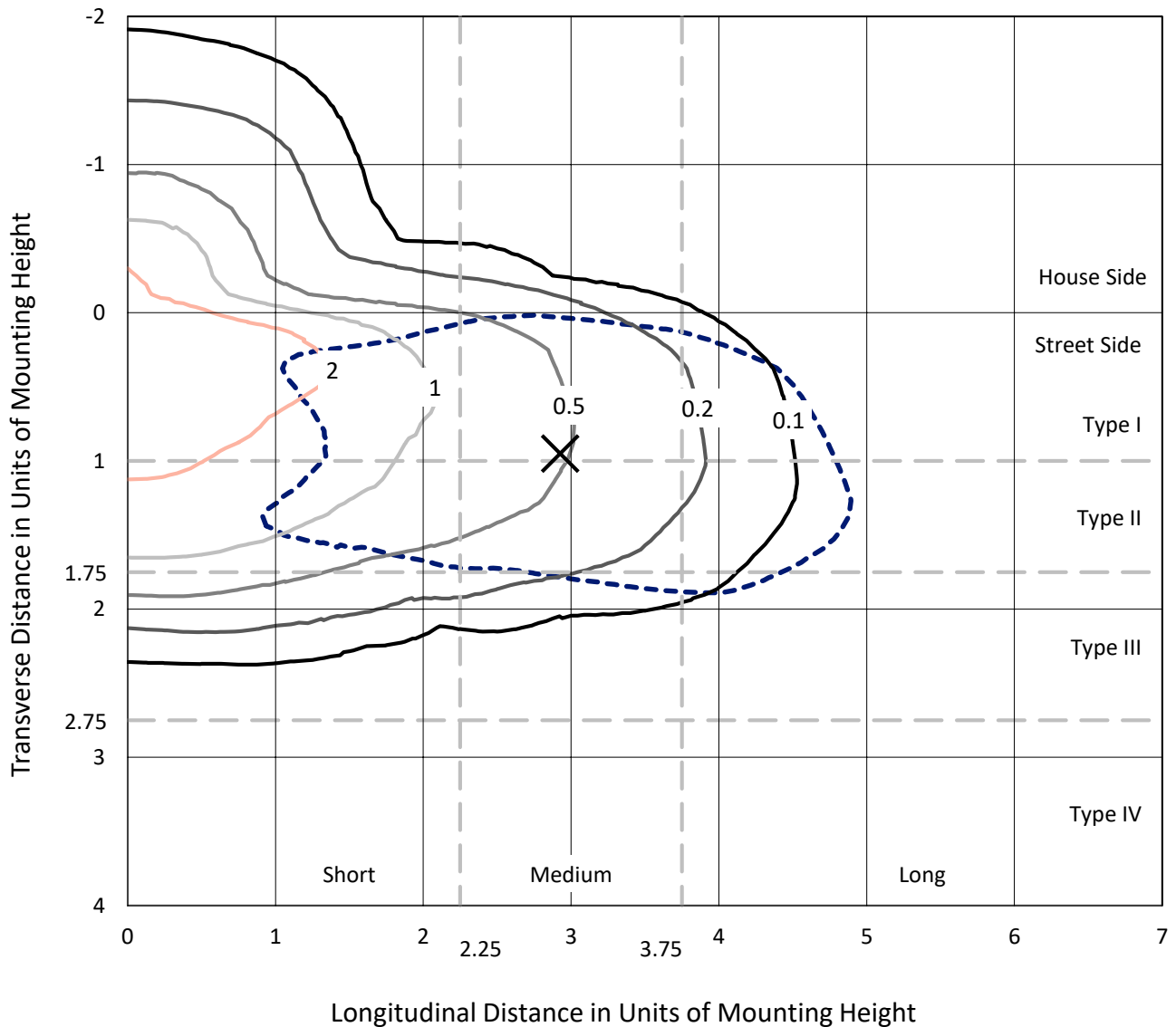
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

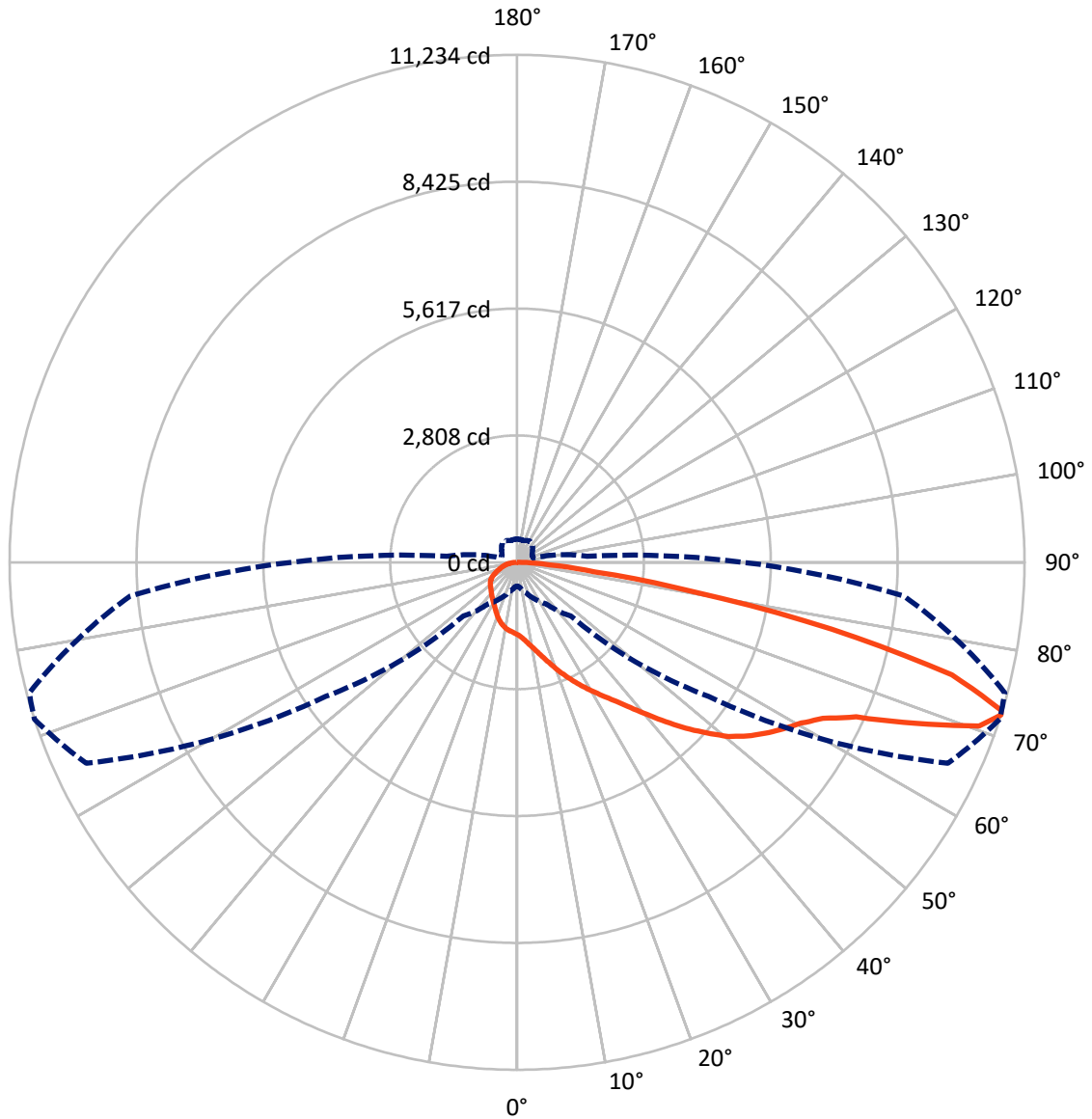
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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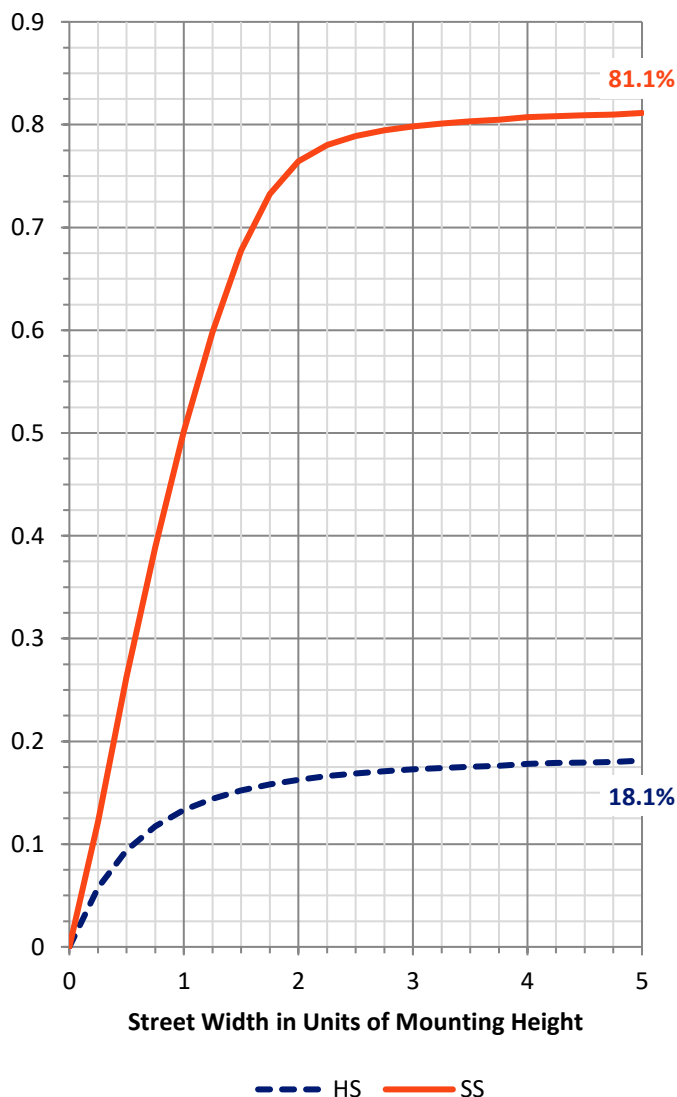
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2412.6	0.0	2412.6
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	10592.8	0.0	10592.8
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	13005.3	0.0	13005.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.3	1.2
10°-20°	518.1	4.0
20°-30°	907.9	7.0
30°-40°	1346.1	10.4
40°-50°	1968.7	15.1
50°-60°	2709.0	20.8
60°-70°	3015.9	23.2
70°-80°	2043.5	15.7
80°-90°	335.9	2.6
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°	13005.3	100.0
0°-180°	13005.3	100.0

**Coefficient of Utilization**

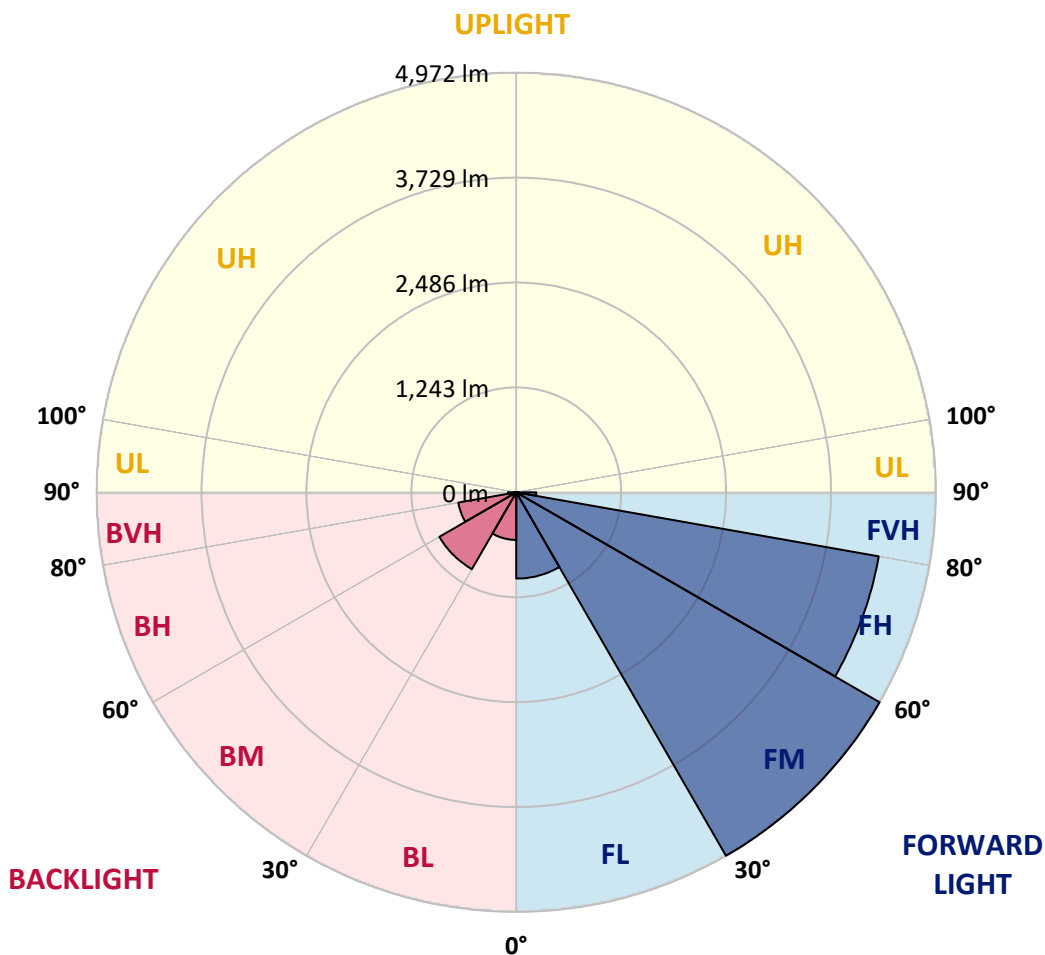


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1022.3	7.9			
FM (30°-60°)	4972.1	38.2			
FH (60°-80°)	4361.4	33.5			G2/5000
FVH (80°-90°)	236.9	1.8			G3/500
BL (0°-30°)	564.0	4.3	B2/1000		
BM (30°-60°)	1051.7	8.1	B2/2500		
BH (60°-80°)	698.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	99.0	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1600.0	1600.0	1600.0	1600.0	1600.0	1600.0	1600.0	1600.0	1600.0	1600.0	1600.0
2.5°	1767.5	1764.8	1755.4	1755.4	1737.4	1722.2	1693.6	1674.4	1651.4	1643.4	1616.6
5°	1938.6	1939.4	1927.7	1919.7	1893.3	1861.0	1812.2	1767.9	1723.5	1705.7	1650.6
7.5°	2082.3	2080.5	2077.4	2070.6	2046.1	2012.9	1947.0	1881.3	1815.9	1788.9	1694.0
10°	2174.5	2178.5	2181.2	2184.4	2174.0	2150.4	2088.1	2008.0	1922.4	1885.7	1746.0
12.5°	2221.1	2228.3	2240.8	2262.3	2279.3	2276.6	2231.4	2146.3	2044.7	1998.5	1810.9
15°	2248.4	2257.8	2277.5	2316.0	2364.0	2391.3	2379.2	2302.1	2188.9	2131.9	1890.2
17.5°	2265.4	2273.1	2303.5	2355.0	2426.2	2498.7	2530.5	2466.1	2351.9	2286.9	1981.0
20°	2277.1	2282.9	2321.0	2381.4	2473.6	2589.1	2677.8	2661.7	2531.4	2447.3	2076.0
22.5°	2303.1	2308.0	2344.2	2405.2	2507.3	2656.4	2819.8	2844.0	2720.9	2625.5	2177.7
25°	2375.6	2375.6	2406.0	2448.6	2544.4	2714.5	2939.8	3046.8	2914.3	2803.2	2271.7
27.5°	2514.0	2512.6	2523.8	2538.6	2611.1	2773.7	3046.8	3225.9	3114.9	2993.5	2363.1
30°	2677.8	2686.8	2688.2	2681.0	2715.0	2847.6	3145.8	3415.0	3316.9	3186.1	2456.7
32.5°	2888.7	2894.6	2887.9	2864.1	2859.2	2952.4	3243.0	3612.8	3535.4	3387.2	2542.2
35°	3156.5	3145.4	3124.3	3076.0	3029.9	3092.6	3354.0	3810.8	3780.8	3630.3	2659.9
37.5°	3443.6	3444.0	3418.0	3308.4	3244.8	3271.6	3507.2	4035.2	4077.7	3919.6	2810.9
40°	3673.7	3685.9	3702.0	3557.8	3475.4	3512.6	3702.0	4295.3	4428.8	4262.7	3007.4
42.5°	3834.5	3848.4	3894.1	3803.6	3718.1	3787.0	3931.2	4573.0	4822.8	4658.5	3237.6
45°	4004.7	4012.3	4044.5	4005.6	3951.0	4106.4	4189.6	4860.4	5239.8	5080.3	3495.1
47.5°	4183.8	4191.9	4225.0	4199.0	4170.4	4404.5	4459.2	5131.3	5639.1	5543.8	3770.1
50°	4405.0	4410.4	4441.7	4394.8	4403.7	4629.4	4700.1	5379.9	6057.9	5960.2	4045.9
52.5°	4706.8	4708.2	4751.6	4709.1	4667.0	4794.2	4907.5	5614.1	6386.1	6340.0	4321.7
55°	4943.3	4957.6	5100.0	5091.1	5066.9	4943.7	5080.8	5837.1	6678.9	6700.9	4614.6
57.5°	4792.3	4848.3	5136.7	5340.0	5538.0	5315.9	5314.9	6088.3	6951.2	7055.1	4936.6
60°	4197.3	4273.4	4698.4	5149.3	5768.6	5963.4	5801.3	6395.1	7226.2	7406.2	5340.0
62.5°	2997.6	3123.0	3698.8	4418.9	5452.4	6392.4	6790.9	6881.8	7600.1	7812.8	5864.4
65°	1515.3	1610.3	2093.0	2960.5	4356.2	6112.1	7866.5	7947.6	8249.9	8438.8	6671.8
67.5°	920.6	956.5	1192.0	1646.6	2670.7	4761.0	8217.6	9724.1	9507.3	9607.6	7823.1
70°	678.4	704.8	851.7	1093.5	1535.9	2793.8	7140.2	10991.7	10849.4	10838.2	8673.9
72°	528.4	547.7	677.5	883.5	1123.1	1676.1	5175.2	10523.8	11233.5	11177.2	8596.0
72.5°	501.1	518.1	636.3	831.6	1061.3	1519.4	4653.1	10208.1	11205.8	11180.2	8495.2
75°	394.5	406.6	471.1	643.0	830.7	862.1	2549.7	7910.9	9940.7	10354.1	7640.8
77.5°	326.4	328.3	362.3	467.9	647.5	609.4	1252.5	5488.7	7118.2	7572.7	5412.6
80°	266.0	268.2	284.3	328.3	489.9	451.0	594.7	3156.1	3985.4	3990.4	2574.0
82.5°	211.8	212.3	230.2	240.1	351.9	322.4	340.8	1481.8	1741.5	1675.2	925.1
85°	149.1	146.0	224.8	197.0	230.2	206.9	188.1	586.6	720.1	688.7	289.7
87.5°	49.7	51.5	99.9	127.6	134.3	117.3	83.7	224.8	271.8	269.6	91.8
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°	1600.0	1600.0	1600.0	1600.0	1600.0	1600.0	1600.0	1600.0	1600.0	1600.0	1600.0
2.5°	1608.0	1593.7	1572.6	1549.3	1531.0	1512.2	1498.3	1491.2	1483.1	1476.4	1484.4
5°	1625.1	1598.2	1553.4	1509.6	1477.3	1448.6	1428.1	1417.3	1407.5	1400.8	1401.6
7.5°	1652.8	1609.4	1534.2	1470.2	1425.4	1394.4	1373.4	1366.2	1360.0	1358.2	1360.4
10°	1682.4	1618.4	1508.6	1423.6	1372.5	1347.0	1337.6	1342.5	1347.0	1351.0	1355.5
12.5°	1716.0	1626.4	1471.5	1368.9	1325.5	1315.6	1325.0	1346.6	1362.2	1371.6	1377.5
15°	1759.9	1633.6	1428.5	1314.3	1285.2	1296.3	1328.2	1365.4	1392.7	1410.1	1412.8
17.5°	1800.1	1633.1	1373.4	1259.2	1252.5	1285.2	1333.1	1385.5	1422.2	1446.9	1451.8
20°	1841.8	1621.1	1309.4	1205.5	1219.4	1273.1	1335.4	1398.4	1442.8	1471.5	1478.2
22.5°	1880.8	1600.0	1239.1	1156.7	1191.6	1256.9	1326.8	1390.9	1435.2	1458.5	1465.7
25°	1907.2	1563.2	1167.9	1115.4	1166.9	1237.3	1299.0	1350.6	1383.7	1395.4	1397.1
27.5°	1920.7	1515.3	1100.7	1079.7	1141.4	1205.0	1247.6	1273.1	1282.5	1281.6	1279.9
30°	1922.4	1452.2	1043.0	1050.5	1111.9	1157.5	1177.8	1172.8	1160.7	1140.1	1141.9
32.5°	1916.6	1381.0	994.6	1022.7	1074.3	1099.8	1100.7	1077.0	1044.7	1012.0	1003.1
35°	1918.4	1311.2	952.0	991.4	1028.6	1039.8	1029.5	994.6	950.6	908.6	899.6
37.5°	1938.1	1250.2	915.3	955.1	978.0	980.6	965.9	929.2	897.0	855.7	852.2
40°	1985.1	1206.8	880.4	914.4	927.4	928.8	907.7	881.7	884.4	862.4	862.1
42.5°	2069.7	1188.0	849.5	871.8	879.9	882.6	866.5	849.9	873.2	858.9	853.9
45°	2179.0	1192.5	823.5	830.2	845.0	857.6	847.7	827.5	836.5	774.2	753.6
47.5°	2305.3	1221.2	802.9	794.4	819.9	843.7	828.4	798.0	766.2	704.4	692.8
50°	2453.0	1265.5	784.1	759.0	792.7	824.9	809.6	766.2	718.3	688.2	684.2
52.5°	2607.1	1319.6	765.3	720.1	758.1	810.5	802.9	759.0	699.9	670.3	665.0
55°	2781.8	1374.3	741.6	674.8	720.9	803.8	799.7	733.0	686.0	669.5	665.4
57.5°	2998.9	1436.5	710.2	627.9	686.0	779.6	767.1	717.4	671.7	659.2	657.9
60°	3281.9	1528.4	665.0	577.7	643.5	742.4	739.7	694.6	648.8	639.9	638.1
62.5°	3706.4	1680.1	602.7	527.5	596.0	679.3	704.0	663.6	624.7	624.2	625.2
65°	4364.8	1908.6	535.1	483.7	548.1	626.0	662.3	631.9	600.0	609.0	610.3
67.5°	5127.8	2097.9	468.8	440.6	499.3	575.4	624.7	600.0	567.4	590.7	591.1
70°	5381.6	1928.7	410.6	398.1	448.7	526.6	583.9	565.2	532.0	555.3	553.1
72°	5008.2	1557.0	373.0	365.8	410.6	486.3	547.7	532.5	499.8	515.4	509.6
72.5°	4890.4	1484.4	363.6	357.8	400.4	476.0	538.2	524.4	491.7	505.1	499.8
75°	4362.5	1289.3	312.5	313.9	349.3	425.9	485.4	481.0	447.3	448.7	446.9
77.5°	3164.2	945.3	263.3	272.3	297.3	374.4	432.1	429.4	392.7	386.0	384.6
80°	1468.3	482.3	214.5	218.5	244.5	313.0	368.5	365.0	335.4	326.9	321.9
82.5°	502.8	229.3	161.3	163.9	189.4	252.1	319.7	317.5	292.9	276.3	266.0
85°	179.6	114.2	112.8	110.2	135.3	198.4	278.5	266.4	230.2	196.1	195.3
87.5°	58.2	48.8	58.2	57.8	78.8	134.3	202.4	172.4	167.0	138.8	136.1
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)