

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: P320949

Luminaire Tested: **GAN-SA5A-740-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320949  
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-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23896 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

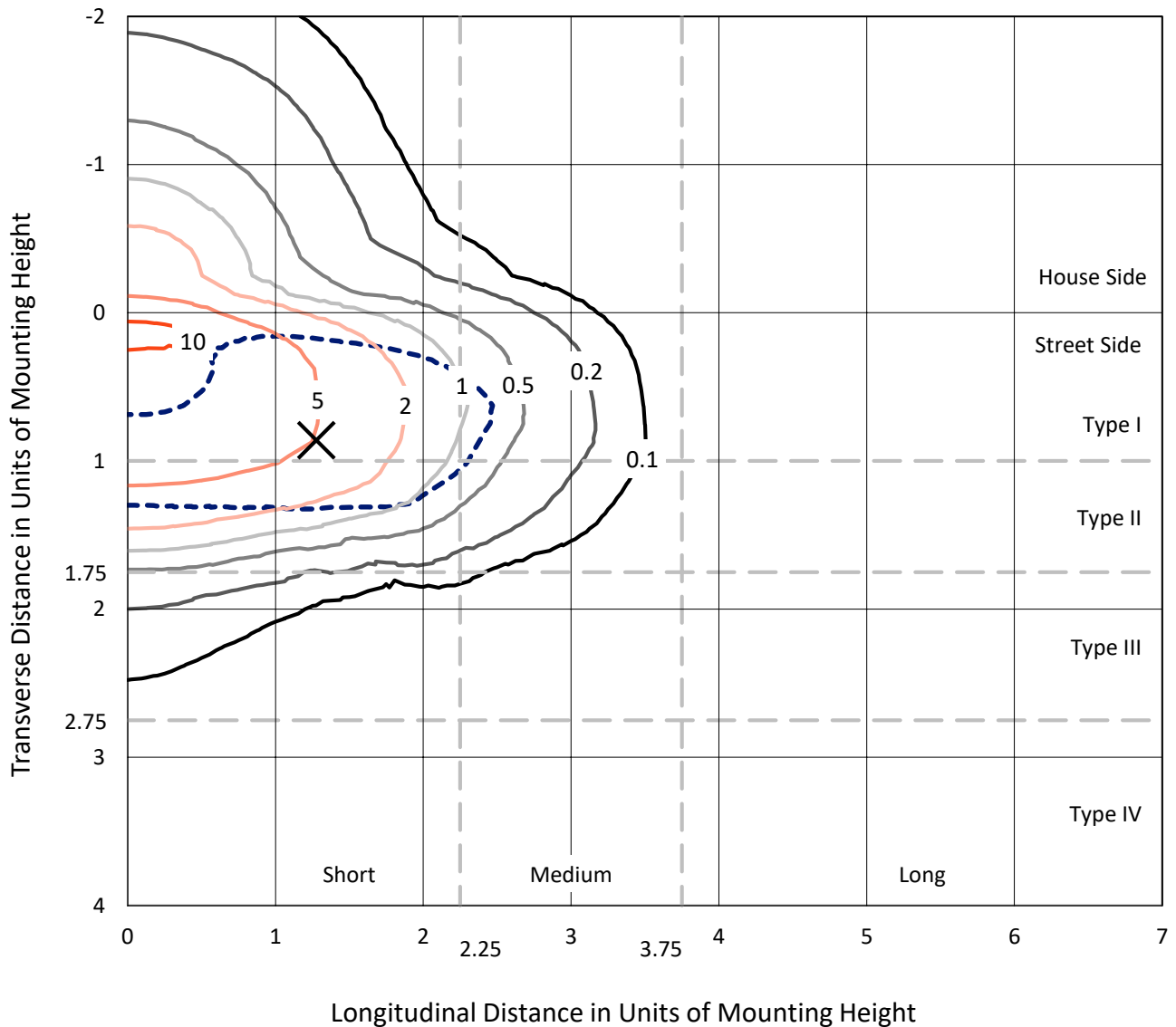
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

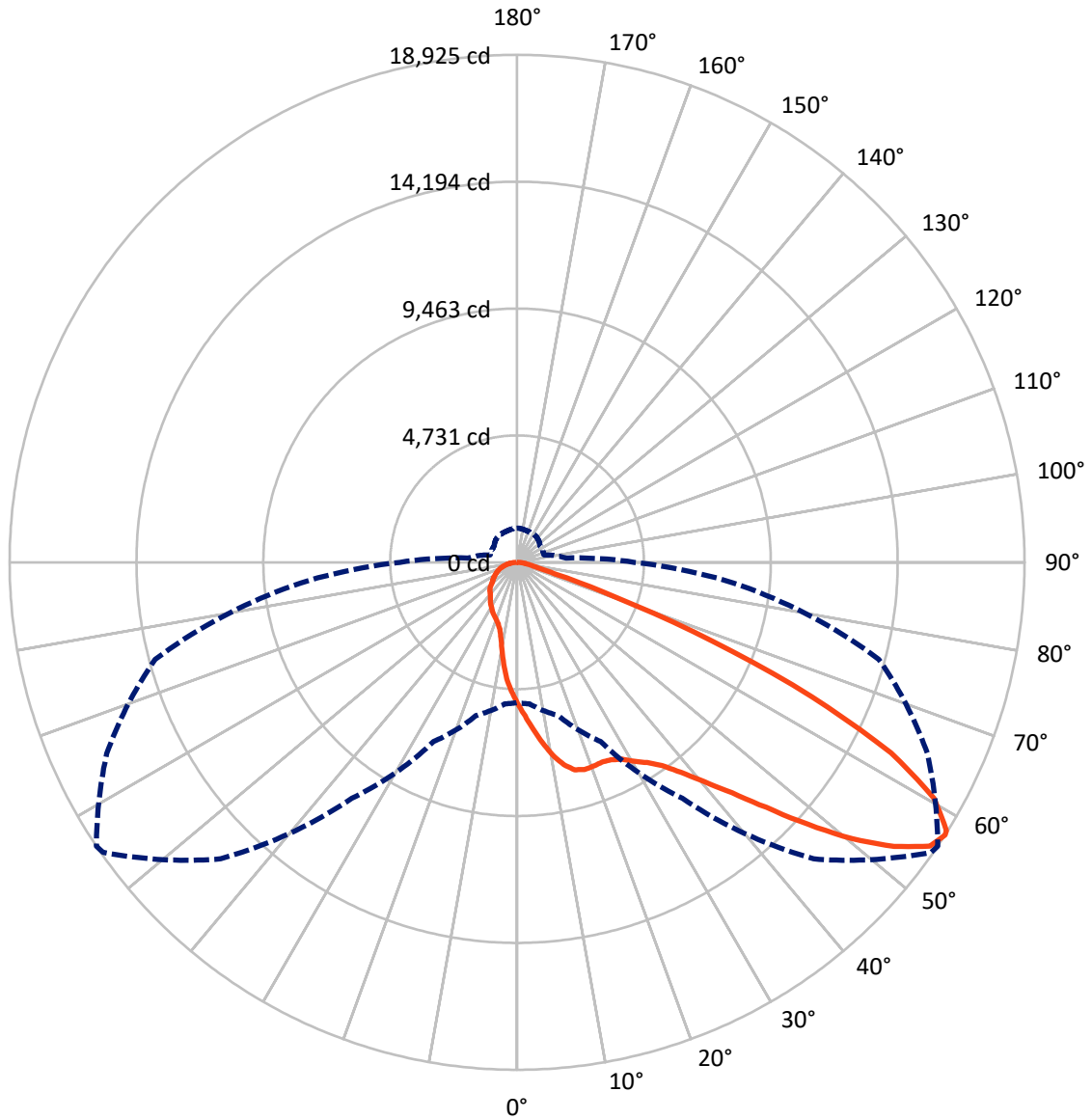
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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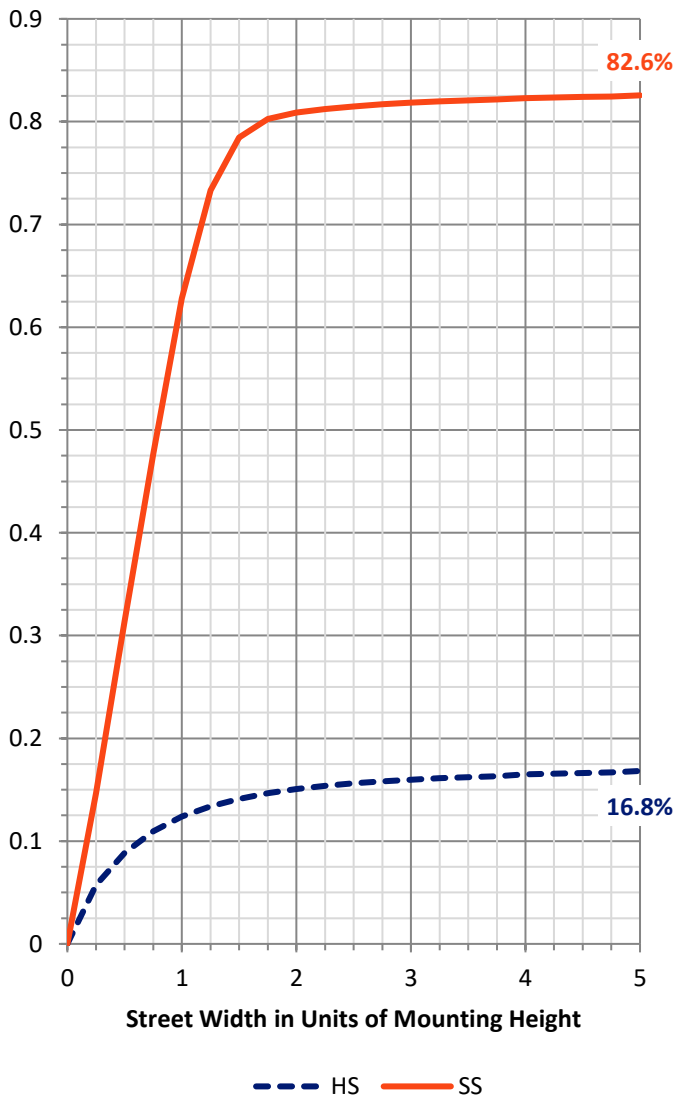
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4119.2	0.0	4119.2
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	19776.8	0.0	19776.8
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	23896.0	0.0	23896.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	506.3	2.1
10°-20°	1431.4	6.0
20°-30°	2331.5	9.8
30°-40°	3485.3	14.6
40°-50°	5286.5	22.1
50°-60°	5925.3	24.8
60°-70°	3499.7	14.6
70°-80°	1146.6	4.8
80°-90°	283.3	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°	23896.0	100.0
0°-180°	23896.0	100.0

**Coefficient of Utilization**

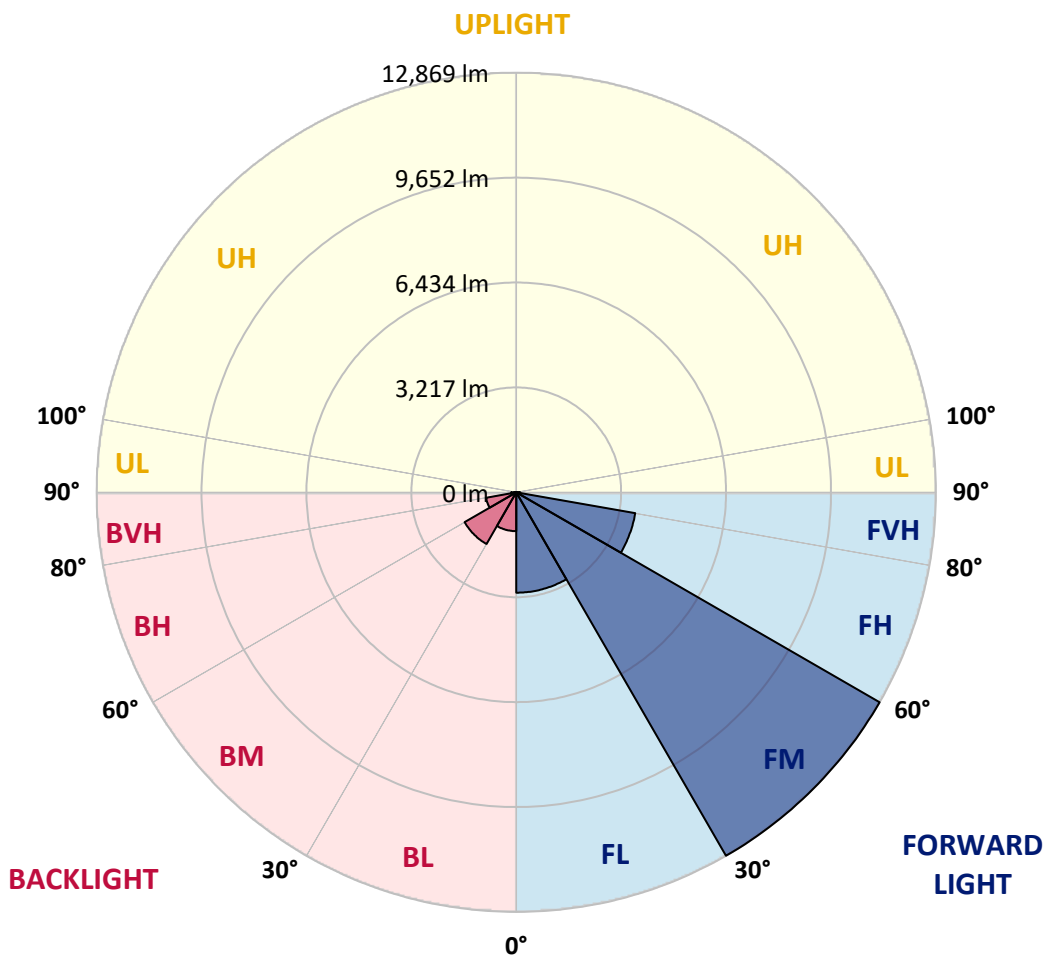


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3078.2	12.9			
FM (30°-60°)	12868.8	53.9			
FH (60°-80°)	3705.2	15.5			G2/5000
FVH (80°-90°)	124.7	0.5			G2/225
BL (0°-30°)	1191.1	5.0	B3/2500		
BM (30°-60°)	1828.4	7.7	B2/2500		
BH (60°-80°)	941.2	3.9	B2/1000		G2/1000
BVH (80°-90°)	158.6	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°	5300.2	5300.2	5300.2	5300.2	5300.2	5300.2	5300.2	5300.2	5300.2	5300.2	5300.2
2.5°	6086.1	6141.9	6117.3	6031.9	5966.2	5873.4	5769.9	5738.7	5629.5	5507.1	5360.1
5°	7049.4	7021.4	6981.2	6848.2	6707.7	6544.3	6284.8	6243.7	6000.7	5723.9	5431.5
7.5°	7597.9	7595.5	7571.6	7493.6	7365.5	7152.0	6839.1	6790.7	6423.6	5978.5	5525.2
10°	7518.3	7512.5	7551.9	7633.2	7671.8	7627.5	7363.9	7315.4	6864.6	6260.2	5633.6
12.5°	7065.8	7069.1	7132.3	7303.1	7535.5	7814.7	7772.0	7748.2	7322.0	6578.8	5765.0
15°	6713.5	6720.9	6771.0	6919.6	7193.9	7700.6	8020.0	8028.2	7764.6	6930.3	5918.5
17.5°	6559.1	6574.7	6597.7	6702.0	6953.3	7473.1	8079.2	8123.5	8152.3	7294.9	6066.4
20°	6608.4	6623.1	6629.7	6696.2	6902.4	7335.1	8038.1	8117.8	8449.5	7638.2	6214.2
22.5°	6829.3	6838.3	6842.4	6859.7	7019.8	7374.6	8011.0	8094.8	8664.7	7946.1	6325.9
25°	7195.5	7189.0	7162.7	7140.5	7248.1	7530.6	8073.4	8153.1	8839.6	8225.3	6398.9
27.5°	7634.1	7625.8	7574.9	7514.2	7575.8	7773.7	8253.3	8316.5	8996.5	8486.5	6435.9
30°	8160.5	8139.1	8043.0	7970.8	7994.6	8138.3	8549.7	8607.2	9238.7	8782.9	6472.0
32.5°	8769.0	8746.0	8607.2	8487.3	8487.3	8607.2	8855.2	8902.8	9444.0	9118.0	6530.3
35°	9531.1	9502.3	9321.7	9120.5	9063.8	9124.6	9271.6	9305.2	9813.6	9540.1	6636.3
37.5°	10429.5	10390.9	10156.9	9887.5	9763.5	9760.2	9866.1	9935.1	10404.0	10094.4	6816.1
40°	11330.4	11303.3	11098.8	10886.9	10643.8	10565.8	10729.2	10750.6	11176.0	10782.6	7046.1
42.5°	12026.8	12021.8	11984.1	12012.0	11763.2	11605.5	11733.6	11750.8	12118.7	11527.5	7290.8
45°	12394.7	12402.9	12586.0	12991.7	13083.7	12968.7	13031.9	13036.9	13196.2	12278.9	7515.0
47.5°	12099.9	12142.6	12605.7	13513.2	14266.2	14648.1	14543.0	14603.8	14240.8	12924.4	7690.7
50°	10951.0	11003.5	11791.9	13280.8	14818.1	16273.3	16218.3	16204.3	15083.3	13397.4	7786.0
52.5°	9527.8	9568.9	10219.3	12072.8	14413.2	17171.7	17676.8	17604.5	15832.3	13751.3	7804.1
55°	7360.6	7424.7	8048.0	9661.7	12775.7	16828.4	18749.3	18684.4	16514.7	13936.9	7782.7
57°	5232.8	5300.2	5919.4	7373.7	10747.3	15640.1	18856.0	18925.0	16883.5	13968.1	7806.5
57.5°	4669.5	4738.4	5351.9	6764.4	10115.0	15210.6	18764.1	18879.0	16950.0	13963.2	7819.7
60°	2351.2	2377.4	2768.3	3776.0	6394.0	12296.9	17564.3	17860.7	17009.9	13721.8	7876.3
62.5°	1461.8	1442.9	1430.6	1739.3	3110.8	8154.7	15088.3	15659.0	15862.7	13137.1	7739.2
65°	1285.2	1249.9	1114.4	1089.8	1373.9	3960.7	11362.4	12072.8	13411.3	12215.6	7412.3
67.5°	1207.2	1172.7	1020.0	928.0	928.8	1570.2	7054.3	7854.1	10447.6	10657.8	6641.2
70°	1126.7	1095.5	952.6	844.2	790.8	869.7	3245.5	3852.3	6810.4	8377.3	5550.6
72.5°	1023.2	1001.9	866.4	754.7	698.0	651.2	1242.5	1467.5	3942.7	5626.2	3854.8
75°	914.8	895.1	779.3	672.6	603.6	512.4	699.7	753.9	2003.0	2878.4	1897.8
77.5°	795.8	784.3	693.1	594.6	539.5	424.6	495.2	521.5	859.0	1234.3	951.8
80°	633.2	655.3	606.1	529.7	478.8	340.0	350.7	367.9	500.1	602.8	540.4
82.5°	412.3	450.8	474.7	430.3	394.2	267.7	252.1	259.5	326.0	367.9	234.9
85°	171.6	193.0	312.1	281.7	262.0	195.5	169.2	172.5	202.0	209.4	96.1
87.5°	76.4	81.3	137.1	128.9	110.9	67.3	72.3	78.8	107.6	101.8	37.0
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°	5300.2	5300.2	5300.2	5300.2	5300.2	5300.2	5300.2	5300.2	5300.2	5300.2	5300.2
2.5°	5305.1	5236.1	5117.8	4987.3	4880.5	4795.1	4708.9	4649.7	4580.8	4543.8	4524.9
5°	5309.2	5173.7	4924.9	4669.5	4441.2	4232.6	4033.8	3881.1	3738.2	3661.0	3639.6
7.5°	5326.4	5122.8	4720.4	4299.9	3894.2	3523.9	3238.1	3059.0	2930.1	2872.6	2856.2
10°	5340.4	5062.8	4467.4	3845.0	3293.1	2917.8	2696.1	2595.9	2551.5	2544.1	2536.7
12.5°	5373.2	5001.2	4201.4	3370.3	2825.8	2566.3	2489.1	2482.5	2494.9	2512.9	2512.9
15°	5425.0	4940.5	3897.5	2963.0	2528.5	2437.4	2453.0	2489.1	2522.8	2550.7	2554.8
17.5°	5462.8	4865.7	3570.7	2636.9	2370.0	2394.7	2450.5	2501.4	2535.9	2563.0	2565.5
20°	5489.9	4749.9	3221.6	2388.1	2278.9	2355.3	2425.1	2470.2	2494.0	2521.1	2525.3
22.5°	5475.9	4594.7	2912.0	2209.9	2205.0	2297.8	2364.3	2418.5	2400.4	2374.1	2391.4
25°	5408.6	4381.2	2593.4	2076.9	2127.0	2220.6	2302.7	2266.6	2205.8	2194.3	2200.9
27.5°	5288.7	4108.6	2298.6	1953.7	2036.6	2149.1	2144.2	2108.1	2086.7	2071.9	2081.0
30°	5159.7	3812.9	2040.7	1846.1	1936.4	2029.2	2010.3	2009.5	1988.2	1964.4	1975.9
32.5°	5032.4	3515.6	1836.2	1757.4	1860.9	1873.2	1914.3	1926.6	1884.7	1834.6	1831.3
35°	4921.6	3234.8	1681.0	1676.9	1769.7	1771.4	1831.3	1814.1	1709.8	1658.0	1658.0
37.5°	4838.6	2954.7	1562.8	1604.7	1649.8	1692.5	1722.9	1651.5	1634.2	1605.5	1604.7
40°	4802.5	2708.4	1488.9	1549.6	1565.2	1619.4	1541.4	1569.4	1577.6	1562.8	1562.8
42.5°	4764.7	2494.0	1424.8	1507.8	1505.3	1497.9	1458.5	1494.6	1527.5	1528.3	1525.8
45°	4726.9	2309.3	1368.2	1418.2	1452.7	1373.1	1380.5	1419.1	1465.1	1481.5	1481.5
47.5°	4685.1	2163.1	1316.4	1323.8	1377.2	1323.8	1318.1	1347.6	1401.8	1428.1	1433.9
50°	4593.1	2031.7	1257.3	1240.9	1255.6	1273.7	1278.6	1292.6	1352.5	1394.4	1404.3
52.5°	4465.8	1914.3	1181.7	1164.5	1164.5	1232.7	1255.6	1259.8	1310.7	1360.8	1370.6
55°	4359.9	1839.5	1103.7	1100.4	1097.2	1189.1	1228.5	1235.1	1270.4	1309.8	1314.8
57°	4367.2	1833.8	1043.8	1047.1	1046.2	1144.8	1203.1	1217.0	1235.1	1268.8	1274.5
57.5°	4371.4	1837.9	1030.6	1032.3	1031.5	1132.5	1195.7	1211.3	1225.3	1260.6	1266.3
60°	4432.9	1848.6	977.3	959.2	963.3	1066.8	1153.8	1173.5	1182.6	1229.4	1236.8
62.5°	4341.8	1800.9	934.5	891.0	891.0	997.8	1095.5	1126.7	1140.7	1203.9	1216.2
65°	4077.4	1667.1	884.5	813.8	822.0	928.8	1025.7	1076.6	1098.0	1176.8	1189.9
67.5°	3669.2	1511.9	831.1	744.8	753.1	856.5	953.4	1008.5	1042.1	1147.2	1157.9
70°	3137.9	1322.2	758.8	671.8	681.6	777.7	868.0	930.4	980.5	1119.3	1122.6
72.5°	2313.4	1084.0	657.8	591.3	602.0	685.7	781.8	854.1	921.4	1049.5	1047.9
75°	1375.5	847.5	546.1	510.0	517.4	595.4	703.8	791.7	892.7	1022.4	1038.0
77.5°	834.4	638.1	445.1	427.0	436.1	515.7	647.9	741.6	880.3	964.1	959.2
80°	504.2	455.8	355.6	344.1	353.1	441.0	599.5	703.8	769.5	823.7	823.7
82.5°	263.6	278.4	261.1	252.1	264.4	358.1	545.3	614.3	680.0	583.9	545.3
85°	107.6	145.4	158.5	157.7	165.1	248.0	470.6	525.6	438.5	416.4	426.2
87.5°	36.1	61.6	77.2	66.5	69.8	156.0	326.0	253.8	301.4	210.2	199.6
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)