

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: P320989

Luminaire Tested: **GAN-SA5A-750-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320989  
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-750-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23895 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

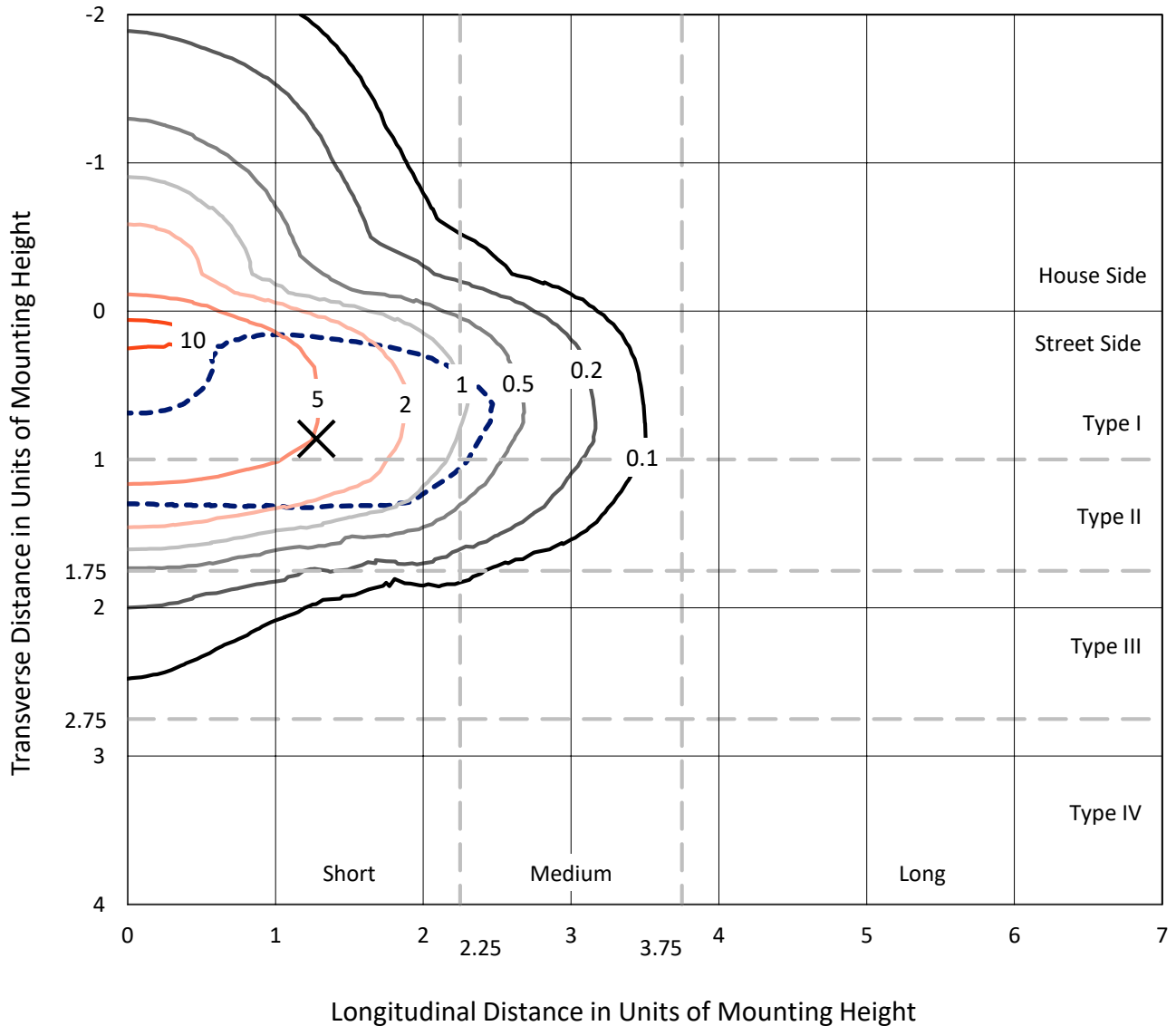
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

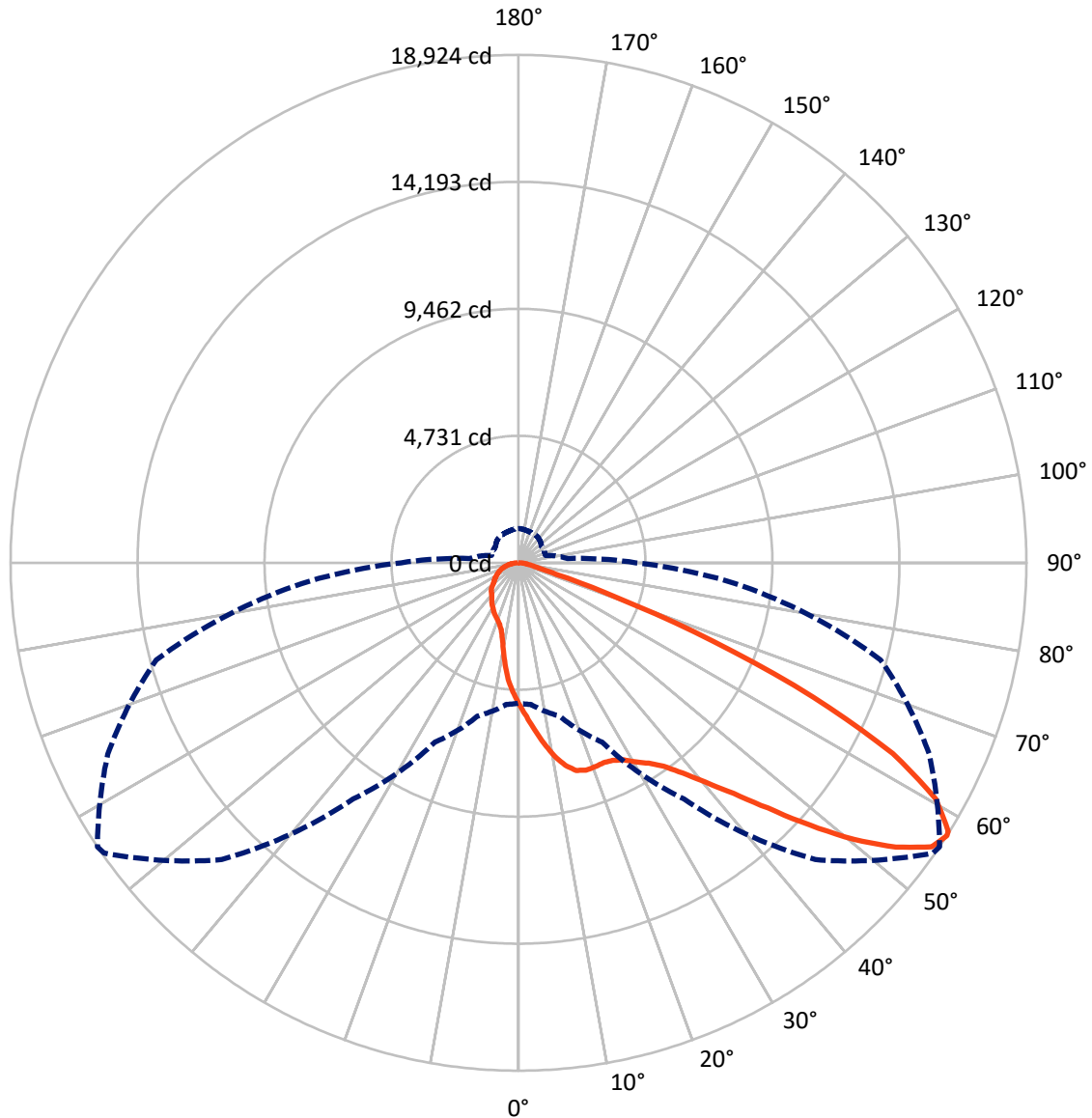
✕ Max cd  
 - - - 1/2 Max cd



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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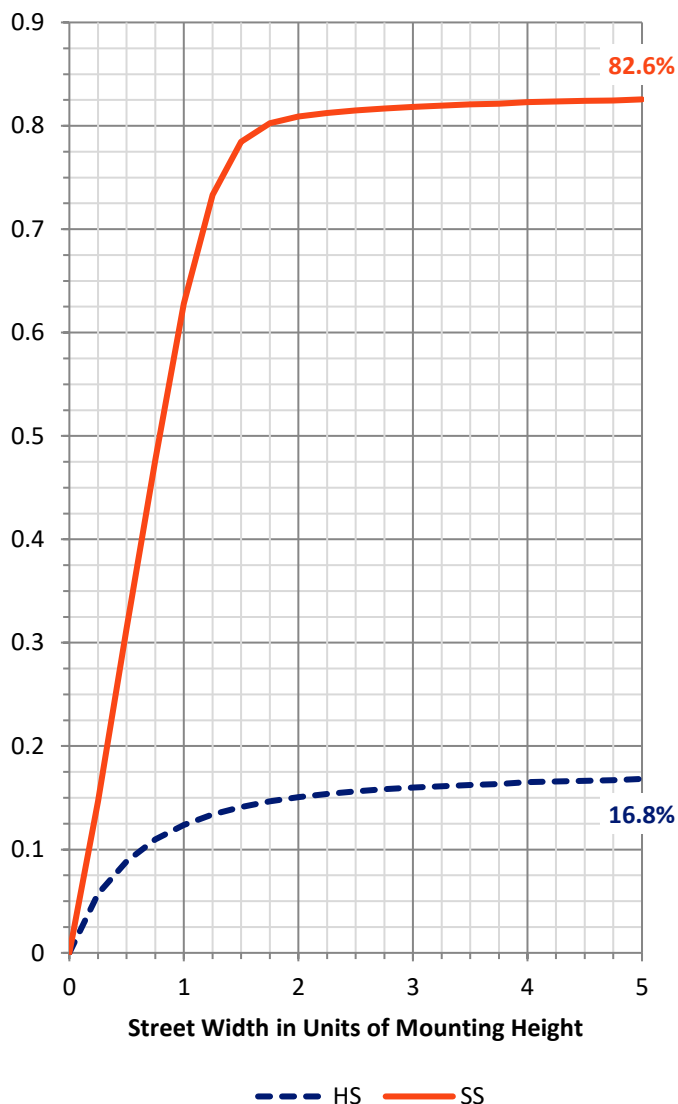
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4119.0	0.0	4119.0
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	19776.0	0.0	19776.0
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	23895.0	0.0	23895.0
	% 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°	2331.4	9.8
30°-40°	3485.2	14.6
40°-50°	5286.3	22.1
50°-60°	5925.0	24.8
60°-70°	3499.5	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°	23895.0	100.0
0°-180°	23895.0	100.0

**Coefficient of Utilization**

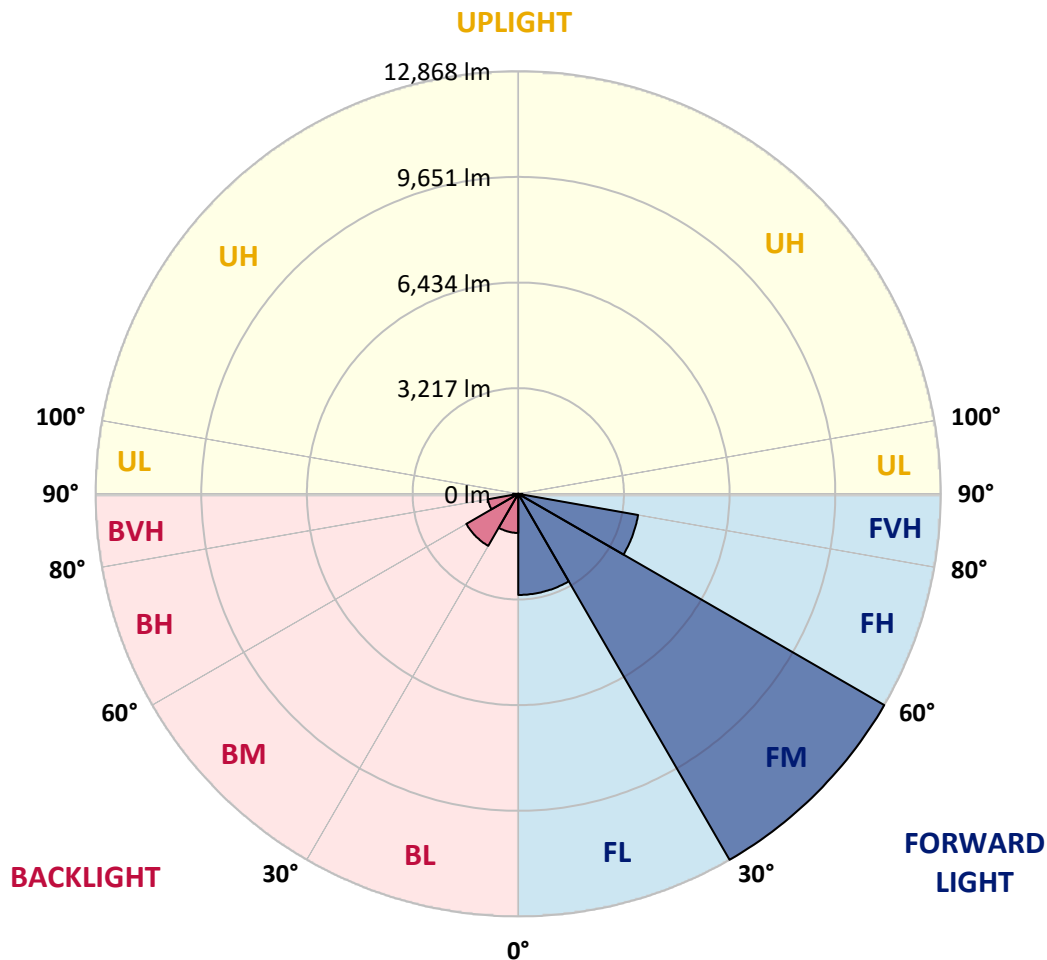


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3078.0	12.9			
FM (30°-60°)	12868.2	53.9			
FH (60°-80°)	3705.0	15.5			G2/5000
FVH (80°-90°)	124.7	0.5			G2/225
BL (0°-30°)	1191.0	5.0	B3/2500		
BM (30°-60°)	1828.3	7.7	B2/2500		
BH (60°-80°)	941.1	3.9	B2/1000		G2/1000
BVH (80°-90°)	158.5	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°	5299.9	5299.9	5299.9	5299.9	5299.9	5299.9	5299.9	5299.9	5299.9	5299.9	5299.9
2.5°	6085.8	6141.6	6117.0	6031.6	5965.9	5873.1	5769.7	5738.4	5629.2	5506.9	5359.9
5°	7049.1	7021.1	6980.9	6847.9	6707.4	6544.0	6284.5	6243.5	6000.4	5723.7	5431.3
7.5°	7597.6	7595.1	7571.3	7493.3	7365.2	7151.7	6838.8	6790.4	6423.3	5978.2	5524.9
10°	7518.0	7512.2	7551.6	7632.9	7671.5	7627.2	7363.6	7315.1	6864.3	6259.9	5633.3
12.5°	7065.5	7068.8	7132.0	7302.8	7535.2	7814.4	7771.7	7747.9	7321.7	6578.5	5764.7
15°	6713.2	6720.6	6770.7	6919.3	7193.6	7700.3	8019.7	8027.9	7764.3	6930.0	5918.3
17.5°	6558.8	6574.4	6597.4	6701.7	6953.0	7472.8	8078.8	8123.2	8151.9	7294.6	6066.1
20°	6608.1	6622.9	6629.4	6695.9	6902.1	7334.8	8037.8	8117.4	8449.2	7637.8	6213.9
22.5°	6829.0	6838.0	6842.1	6859.4	7019.5	7374.2	8010.7	8094.4	8664.3	7945.8	6325.6
25°	7195.2	7188.7	7162.4	7140.2	7247.8	7530.3	8073.1	8152.7	8839.2	8225.0	6398.7
27.5°	7633.7	7625.5	7574.6	7513.8	7575.4	7773.3	8252.9	8316.1	8996.1	8486.1	6435.6
30°	8160.1	8138.8	8042.7	7970.4	7994.2	8138.0	8549.4	8606.8	9238.3	8782.6	6471.8
32.5°	8768.6	8745.6	8606.8	8487.0	8487.0	8606.8	8854.8	8902.5	9443.6	9117.6	6530.1
35°	9530.7	9501.9	9321.3	9120.1	9063.4	9124.2	9271.2	9304.9	9813.2	9539.7	6636.0
37.5°	10429.1	10390.5	10156.4	9887.1	9763.1	9759.8	9865.7	9934.7	10403.6	10094.0	6815.8
40°	11329.9	11302.8	11098.3	10886.5	10643.4	10565.4	10728.8	10750.1	11175.5	10782.2	7045.8
42.5°	12026.3	12021.3	11983.6	12011.5	11762.7	11605.0	11733.1	11750.3	12118.2	11527.0	7290.5
45°	12394.2	12402.4	12585.5	12991.2	13083.1	12968.2	13031.4	13036.3	13195.6	12278.4	7514.7
47.5°	12099.4	12142.1	12605.2	13512.6	14265.6	14647.5	14542.4	14603.1	14240.2	12923.8	7690.4
50°	10950.5	11003.1	11791.4	13280.2	14817.5	16272.6	16217.6	16203.6	15082.7	13396.8	7785.7
52.5°	9527.4	9568.5	10218.8	12072.3	14412.6	17171.0	17676.0	17603.8	15831.6	13750.8	7803.7
55°	7360.3	7424.3	8047.6	9661.3	12775.2	16827.7	18748.5	18683.6	16514.0	13936.3	7782.4
57°	5232.6	5299.9	5919.1	7373.4	10746.9	15639.5	18855.2	18924.2	16882.8	13967.5	7806.2
57.5°	4669.3	4738.2	5351.7	6764.1	10114.5	15210.0	18763.3	18878.2	16949.3	13962.6	7819.3
60°	2351.1	2377.3	2768.2	3775.8	6393.8	12296.4	17563.5	17860.0	17009.2	13721.2	7876.0
62.5°	1461.7	1442.8	1430.5	1739.3	3110.7	8154.4	15087.6	15658.4	15862.0	13136.5	7738.9
65°	1285.2	1249.8	1114.3	1089.7	1373.8	3960.6	11361.9	12072.3	13410.8	12215.1	7412.0
67.5°	1207.1	1172.7	1019.9	927.9	928.8	1570.1	7054.0	7853.8	10447.1	10657.3	6640.9
70°	1126.7	1095.5	952.6	844.2	790.8	869.6	3245.3	3852.2	6810.1	8376.9	5550.4
72.5°	1023.2	1001.8	866.4	754.7	698.0	651.2	1242.5	1467.5	3942.5	5625.9	3854.6
75°	914.8	895.1	779.3	672.6	603.6	512.4	699.7	753.8	2002.9	2878.3	1897.8
77.5°	795.7	784.2	693.1	594.5	539.5	424.6	495.2	521.5	859.0	1234.2	951.8
80°	633.1	655.3	606.0	529.7	478.8	340.0	350.6	367.9	500.1	602.8	540.3
82.5°	412.2	450.8	474.6	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	195.4	169.2	172.4	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°	5299.9	5299.9	5299.9	5299.9	5299.9	5299.9	5299.9	5299.9	5299.9	5299.9	5299.9
2.5°	5304.9	5235.9	5117.6	4987.1	4880.3	4794.9	4708.7	4649.6	4580.6	4543.6	4524.7
5°	5309.0	5173.5	4924.7	4669.3	4441.0	4232.4	4033.7	3880.9	3738.0	3660.8	3639.5
7.5°	5326.2	5122.6	4720.2	4299.7	3894.1	3523.7	3237.9	3058.9	2930.0	2872.5	2856.1
10°	5340.2	5062.6	4467.3	3844.8	3293.0	2917.7	2696.0	2595.8	2551.4	2544.0	2536.6
12.5°	5373.0	5001.0	4201.2	3370.1	2825.7	2566.2	2489.0	2482.4	2494.8	2512.8	2512.8
15°	5424.8	4940.3	3897.3	2962.8	2528.4	2437.3	2452.9	2489.0	2522.7	2550.6	2554.7
17.5°	5462.5	4865.5	3570.5	2636.8	2369.9	2394.6	2450.4	2501.3	2535.8	2562.9	2565.4
20°	5489.6	4749.7	3221.5	2388.0	2278.8	2355.2	2425.0	2470.1	2493.9	2521.0	2525.1
22.5°	5475.7	4594.5	2911.9	2209.8	2204.9	2297.7	2364.2	2418.4	2400.3	2374.0	2391.3
25°	5408.3	4381.0	2593.3	2076.8	2126.9	2220.5	2302.6	2266.5	2205.7	2194.2	2200.8
27.5°	5288.4	4108.4	2298.5	1953.6	2036.5	2149.0	2144.1	2108.0	2086.6	2071.9	2080.9
30°	5159.5	3812.8	2040.6	1846.0	1936.4	2029.1	2010.3	2009.4	1988.1	1964.3	1975.8
32.5°	5032.2	3515.5	1836.2	1757.3	1860.8	1873.1	1914.2	1926.5	1884.6	1834.5	1831.2
35°	4921.4	3234.7	1681.0	1676.9	1769.7	1771.3	1831.2	1814.0	1709.7	1658.0	1658.0
37.5°	4838.4	2954.6	1562.7	1604.6	1649.8	1692.5	1722.8	1651.4	1634.2	1605.4	1604.6
40°	4802.3	2708.3	1488.8	1549.6	1565.2	1619.4	1541.4	1569.3	1577.5	1562.7	1562.7
42.5°	4764.5	2493.9	1424.8	1507.7	1505.2	1497.8	1458.4	1494.6	1527.4	1528.2	1525.8
45°	4726.7	2309.2	1368.1	1418.2	1452.7	1373.0	1380.4	1419.0	1465.0	1481.4	1481.4
47.5°	4684.9	2163.0	1316.4	1323.8	1377.1	1323.8	1318.0	1347.6	1401.8	1428.0	1433.8
50°	4592.9	2031.6	1257.2	1240.8	1255.6	1273.7	1278.6	1292.5	1352.5	1394.4	1404.2
52.5°	4465.6	1914.2	1181.7	1164.4	1164.4	1232.6	1255.6	1259.7	1310.6	1360.7	1370.6
55°	4359.7	1839.5	1103.7	1100.4	1097.1	1189.1	1228.5	1235.1	1270.4	1309.8	1314.7
57°	4367.1	1833.7	1043.7	1047.0	1046.2	1144.7	1203.0	1217.0	1235.1	1268.7	1274.5
57.5°	4371.2	1837.8	1030.6	1032.2	1031.4	1132.4	1195.6	1211.2	1225.2	1260.5	1266.3
60°	4432.8	1848.5	977.2	959.1	963.3	1066.7	1153.8	1173.5	1182.5	1229.3	1236.7
62.5°	4341.6	1800.9	934.5	891.0	891.0	997.7	1095.5	1126.7	1140.6	1203.9	1216.2
65°	4077.2	1667.0	884.4	813.8	822.0	928.8	1025.7	1076.6	1097.9	1176.8	1189.9
67.5°	3669.1	1511.8	831.0	744.8	753.0	856.5	953.4	1008.4	1042.1	1147.2	1157.9
70°	3137.8	1322.1	758.8	671.7	681.6	777.7	868.0	930.4	980.5	1119.3	1122.6
72.5°	2313.3	1084.0	657.8	591.3	601.9	685.7	781.8	854.0	921.4	1049.5	1047.8
75°	1375.5	847.5	546.1	510.0	517.3	595.4	703.8	791.6	892.6	1022.4	1038.0
77.5°	834.3	638.1	445.1	427.0	436.0	515.7	647.9	741.5	880.3	964.1	959.1
80°	504.2	455.8	355.6	344.1	353.1	441.0	599.5	703.8	769.5	823.6	823.6
82.5°	263.6	278.4	261.1	252.1	264.4	358.0	545.3	614.2	679.9	583.9	545.3
85°	107.6	145.3	158.5	157.7	165.1	248.0	470.5	525.6	438.5	416.3	426.2
87.5°	36.1	61.6	77.2	66.5	69.8	156.0	326.0	253.7	301.4	210.2	199.5
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)