

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: P320958

Luminaire Tested: **GAN-SA4B-740-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320958  
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-SA4B-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23650 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

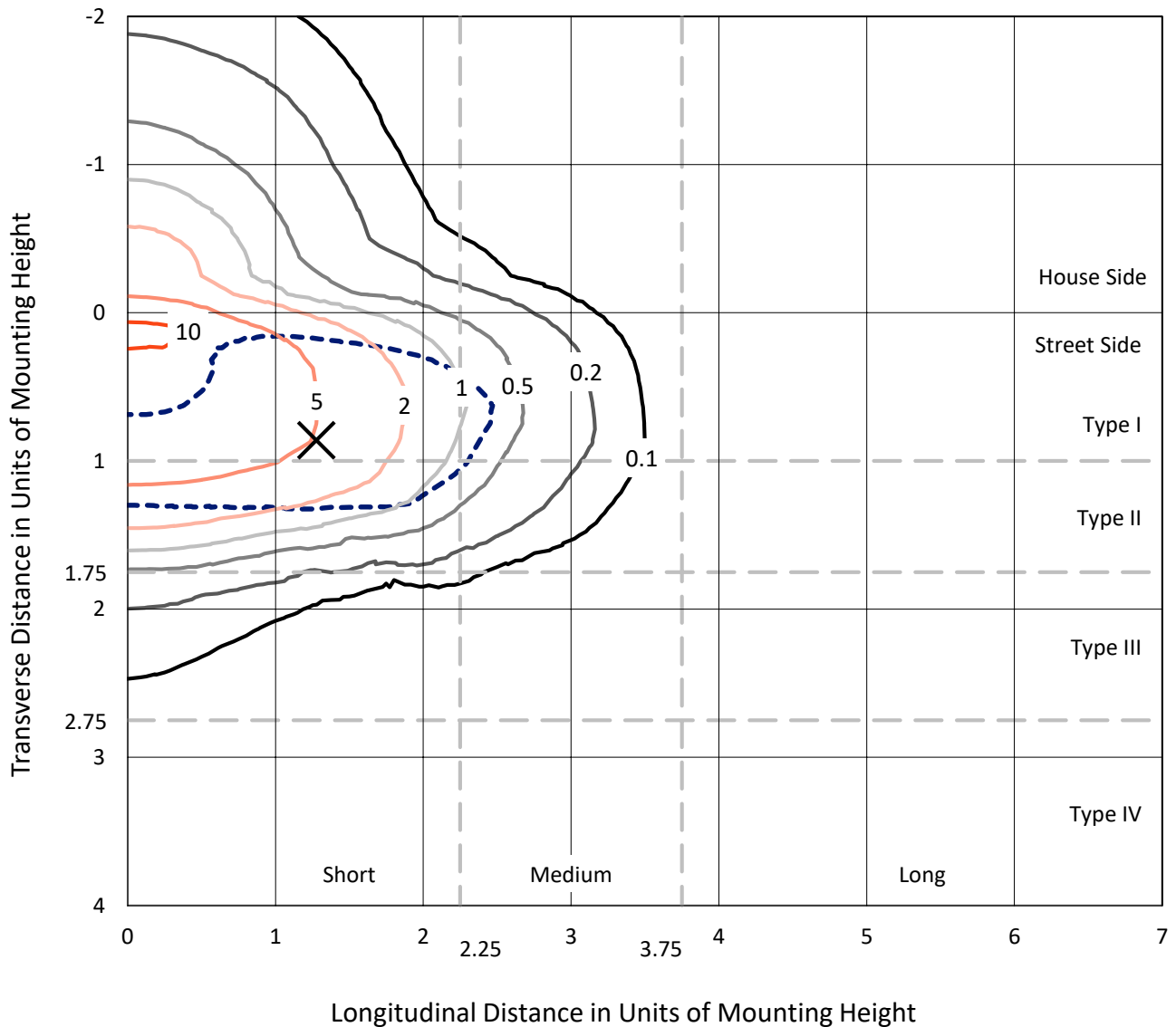
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

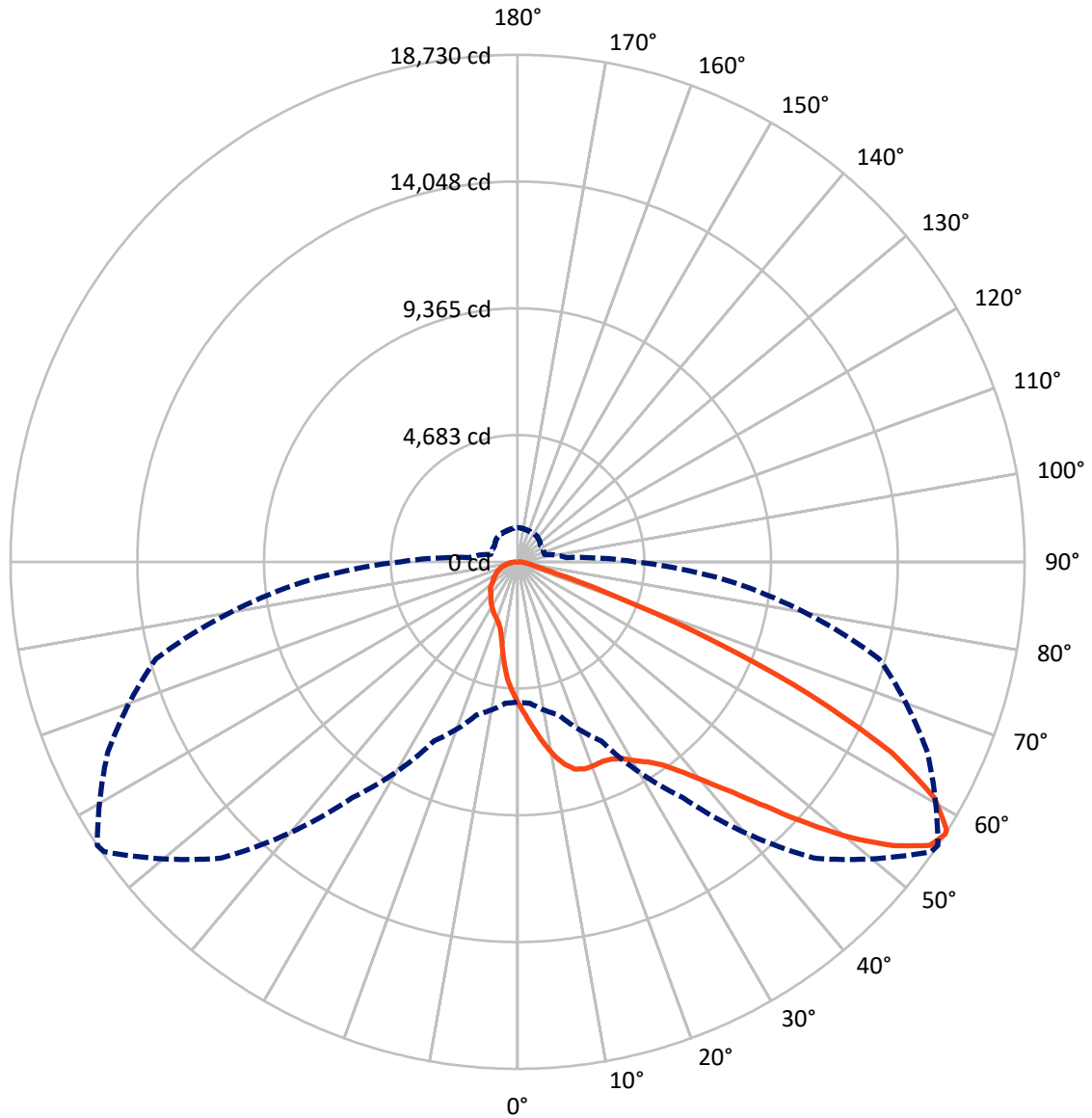
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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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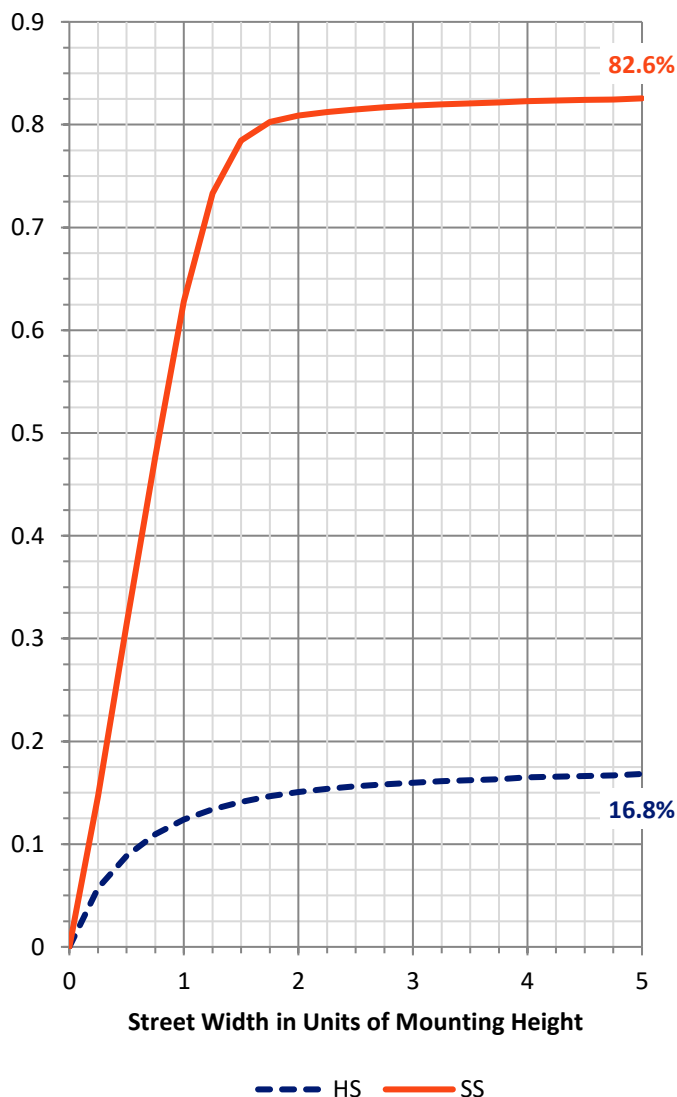
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4076.8	0.0	4076.8
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	19573.3	0.0	19573.3
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	23650.0	0.0	23650.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	501.1	2.1
10°-20°	1416.7	6.0
20°-30°	2307.5	9.8
30°-40°	3449.5	14.6
40°-50°	5232.1	22.1
50°-60°	5864.3	24.8
60°-70°	3463.7	14.6
70°-80°	1134.8	4.8
80°-90°	280.4	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°	23650.0	100.0
0°-180°	23650.0	100.0

**Coefficient of Utilization**

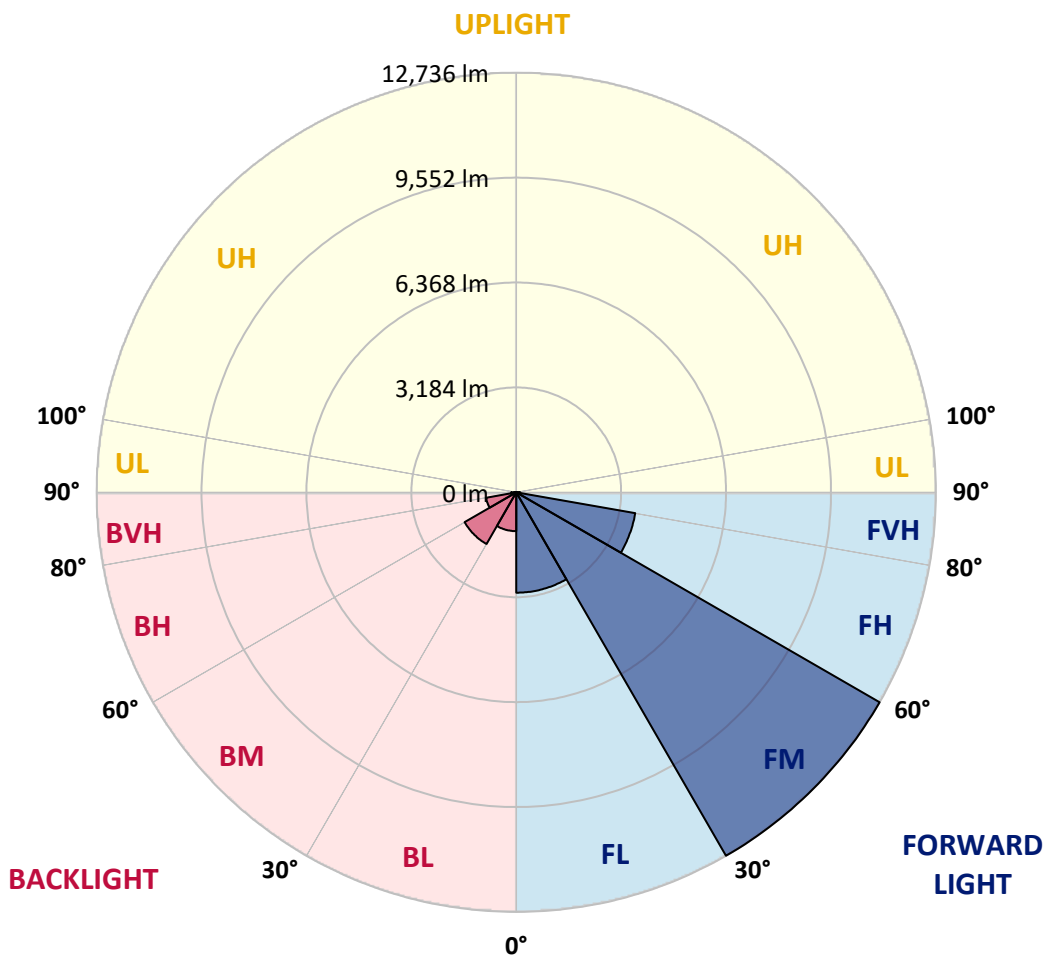


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3046.5	12.9			
FM (30°-60°)	12736.3	53.9			
FH (60°-80°)	3667.0	15.5			G2/5000
FVH (80°-90°)	123.5	0.5			G2/225
BL (0°-30°)	1178.8	5.0	B3/2500		
BM (30°-60°)	1809.5	7.7	B2/2500		
BH (60°-80°)	931.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	156.9	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°	5245.6	5245.6	5245.6	5245.6	5245.6	5245.6	5245.6	5245.6	5245.6	5245.6	5245.6
2.5°	6023.4	6078.7	6054.3	5969.8	5904.7	5812.9	5710.5	5679.6	5571.5	5450.4	5304.9
5°	6976.8	6949.1	6909.3	6777.7	6638.7	6476.9	6220.1	6179.5	5938.9	5665.0	5375.6
7.5°	7519.7	7517.3	7493.7	7416.5	7289.7	7078.4	6768.7	6720.8	6357.5	5916.9	5468.3
10°	7440.9	7435.2	7474.2	7554.7	7592.9	7549.0	7288.1	7240.1	6793.9	6195.7	5575.6
12.5°	6993.0	6996.3	7058.9	7227.9	7457.9	7734.3	7692.0	7668.4	7246.6	6511.1	5705.6
15°	6644.4	6651.7	6701.3	6848.4	7119.8	7621.3	7937.5	7945.6	7684.7	6858.9	5857.6
17.5°	6491.6	6507.0	6529.8	6633.0	6881.7	7396.2	7996.0	8039.9	8068.3	7219.8	6003.9
20°	6540.3	6555.0	6561.5	6627.3	6831.3	7259.6	7955.4	8034.2	8362.5	7559.5	6150.2
22.5°	6759.0	6767.9	6772.0	6789.0	6947.5	7298.6	7928.5	8011.4	8575.5	7864.3	6260.7
25°	7121.5	7115.0	7088.9	7067.0	7173.5	7453.1	7990.3	8069.1	8748.6	8140.7	6333.1
27.5°	7555.5	7547.3	7497.0	7436.8	7497.8	7693.6	8168.3	8230.9	8903.9	8399.1	6369.6
30°	8076.5	8055.3	7960.2	7888.7	7912.3	8054.5	8461.7	8518.6	9143.6	8692.5	6405.4
32.5°	8678.7	8656.0	8518.6	8399.9	8399.9	8518.6	8764.1	8811.2	9346.8	9024.1	6463.1
35°	9433.0	9404.5	9225.7	9026.6	8970.5	9030.6	9176.1	9209.5	9712.6	9441.9	6568.0
37.5°	10322.1	10283.9	10052.3	9785.7	9663.0	9659.7	9764.6	9832.8	10296.9	9990.5	6746.0
40°	11213.7	11186.9	10984.5	10774.8	10534.3	10457.0	10618.8	10639.9	11060.9	10671.6	6973.5
42.5°	11903.0	11898.1	11860.7	11888.3	11642.1	11486.0	11612.8	11629.9	11994.0	11408.8	7215.7
45°	12267.1	12275.2	12456.5	12858.0	12949.0	12835.2	12897.8	12902.7	13060.3	12152.5	7437.6
47.5°	11975.3	12017.6	12476.0	13374.1	14119.4	14497.3	14393.3	14453.4	14094.2	12791.3	7611.6
50°	10838.2	10890.3	11670.5	13144.1	14665.5	16105.8	16051.3	16037.5	14928.1	13259.5	7705.8
52.5°	9429.7	9470.3	10114.1	11948.5	14264.9	16994.9	17494.8	17423.3	15669.3	13609.8	7723.7
55°	7284.8	7348.2	7965.1	9562.2	12644.2	16655.2	18556.3	18492.1	16344.7	13793.5	7702.6
57°	5178.9	5245.6	5858.4	7297.8	10636.7	15479.1	18661.9	18730.2	16709.7	13824.3	7726.2
57.5°	4621.4	4689.7	5296.8	6694.8	10010.8	15054.1	18570.9	18684.7	16775.5	13819.5	7739.2
60°	2326.9	2353.0	2739.8	3737.1	6328.2	12170.4	17383.4	17676.8	16834.8	13580.5	7795.2
62.5°	1446.7	1428.0	1415.8	1721.4	3078.8	8070.8	14932.9	15497.8	15699.4	13001.8	7659.5
65°	1272.0	1237.0	1102.9	1078.5	1359.8	3920.0	11245.4	11948.5	13273.3	12089.9	7336.0
67.5°	1194.8	1160.6	1009.5	918.4	919.2	1554.0	6981.7	7773.3	10340.0	10548.1	6572.8
70°	1115.1	1084.2	942.8	835.5	782.7	860.7	3212.1	3812.7	6740.3	8291.0	5493.5
72.5°	1012.7	991.6	857.5	746.9	690.9	644.5	1229.7	1452.4	3902.1	5568.3	3815.1
75°	905.4	885.9	771.3	665.7	597.4	507.2	692.5	746.1	1982.3	2848.7	1878.3
77.5°	787.6	776.2	686.0	588.4	534.0	420.2	490.1	516.1	850.2	1221.6	942.0
80°	626.6	648.6	599.8	524.2	473.8	336.5	347.1	364.1	495.0	596.6	534.8
82.5°	408.0	446.2	469.8	425.9	390.1	265.0	249.5	256.8	322.7	364.1	232.5
85°	169.9	191.0	308.9	278.8	259.3	193.4	167.4	170.7	199.9	207.3	95.1
87.5°	75.6	80.5	135.7	127.6	109.7	66.6	71.5	78.0	106.5	100.8	36.6
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°	5245.6	5245.6	5245.6	5245.6	5245.6	5245.6	5245.6	5245.6	5245.6	5245.6	5245.6
2.5°	5250.5	5182.2	5065.2	4935.9	4830.3	4745.7	4660.4	4601.9	4533.6	4497.0	4478.3
5°	5254.5	5120.4	4874.2	4621.4	4395.4	4189.0	3992.3	3841.1	3699.7	3623.3	3602.2
7.5°	5271.6	5070.0	4671.8	4255.6	3854.1	3487.6	3204.7	3027.6	2899.9	2843.1	2826.8
10°	5285.4	5010.7	4421.4	3805.4	3259.2	2887.8	2668.3	2569.2	2525.3	2517.9	2510.6
12.5°	5317.9	4949.7	4158.1	3335.6	2796.7	2539.9	2463.5	2457.0	2469.2	2487.1	2487.1
15°	5369.1	4889.6	3857.4	2932.5	2502.5	2412.3	2427.7	2463.5	2496.8	2524.5	2528.5
17.5°	5406.5	4815.6	3533.9	2609.8	2345.6	2370.0	2425.3	2475.7	2509.8	2536.6	2539.1
20°	5433.3	4701.0	3188.5	2363.5	2255.4	2331.0	2400.1	2444.8	2468.4	2495.2	2499.3
22.5°	5419.5	4547.4	2882.1	2187.2	2182.3	2274.1	2340.0	2393.6	2375.7	2349.7	2366.8
25°	5352.9	4336.1	2566.7	2055.5	2105.1	2197.7	2279.0	2243.2	2183.1	2171.7	2178.2
27.5°	5234.2	4066.3	2274.9	1933.6	2015.7	2127.0	2122.1	2086.4	2065.2	2050.6	2059.5
30°	5106.6	3773.7	2019.7	1827.1	1916.5	2008.3	1989.7	1988.8	1967.7	1944.1	1955.5
32.5°	4980.6	3479.5	1817.3	1739.3	1841.7	1853.9	1894.6	1906.7	1865.3	1815.7	1812.5
35°	4870.9	3201.5	1663.7	1659.7	1751.5	1753.1	1812.5	1795.4	1692.2	1641.0	1641.0
37.5°	4788.8	2924.3	1546.7	1588.1	1632.8	1675.1	1705.2	1634.5	1617.4	1589.0	1588.1
40°	4753.1	2680.5	1473.5	1533.7	1549.1	1602.8	1525.6	1553.2	1561.3	1546.7	1546.7
42.5°	4715.7	2468.4	1410.1	1492.2	1489.8	1482.5	1443.5	1479.2	1511.7	1512.6	1510.1
45°	4678.3	2285.5	1354.1	1403.6	1437.8	1358.9	1366.3	1404.5	1450.0	1466.2	1466.2
47.5°	4636.8	2140.8	1302.9	1310.2	1363.0	1310.2	1304.5	1333.7	1387.4	1413.4	1419.1
50°	4545.8	2010.8	1244.3	1228.1	1242.7	1260.6	1265.5	1279.3	1338.6	1380.1	1389.8
52.5°	4419.8	1894.6	1169.6	1152.5	1152.5	1220.0	1242.7	1246.8	1297.2	1346.8	1356.5
55°	4315.0	1820.6	1092.4	1089.1	1085.9	1176.9	1215.9	1222.4	1257.3	1296.4	1301.2
57°	4322.3	1814.9	1033.0	1036.3	1035.5	1133.0	1190.7	1204.5	1222.4	1255.7	1261.4
57.5°	4326.4	1819.0	1020.0	1021.6	1020.8	1120.8	1183.4	1198.8	1212.6	1247.6	1253.3
60°	4387.3	1829.5	967.2	949.3	953.4	1055.8	1141.9	1161.4	1170.4	1216.7	1224.0
62.5°	4297.1	1782.4	924.9	881.9	881.9	987.5	1084.2	1115.1	1128.9	1191.5	1203.7
65°	4035.4	1649.9	875.3	805.5	813.6	919.2	1015.1	1065.5	1086.7	1164.7	1177.7
67.5°	3631.4	1496.3	822.5	737.2	745.3	847.7	943.6	998.1	1031.4	1135.4	1146.0
70°	3105.6	1308.6	751.0	664.8	674.6	769.7	859.1	920.9	970.4	1107.8	1111.1
72.5°	2289.6	1072.9	651.0	585.2	595.8	678.7	773.8	845.3	911.9	1038.7	1037.1
75°	1361.4	838.8	540.5	504.7	512.0	589.3	696.5	783.5	883.5	1011.9	1027.3
77.5°	825.8	631.5	440.5	422.6	431.6	510.4	641.3	733.9	871.3	954.2	949.3
80°	499.0	451.1	351.9	340.5	349.5	436.5	593.3	696.5	761.6	815.2	815.2
82.5°	260.9	275.5	258.5	249.5	261.7	354.4	539.7	607.9	673.0	577.9	539.7
85°	106.5	143.9	156.9	156.1	163.4	245.5	465.7	520.2	434.0	412.1	421.8
87.5°	35.8	61.0	76.4	65.8	69.1	154.4	322.7	251.1	298.3	208.1	197.5
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)