

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: P320009

Luminaire Tested: **GAN-SA5C-740-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33592 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

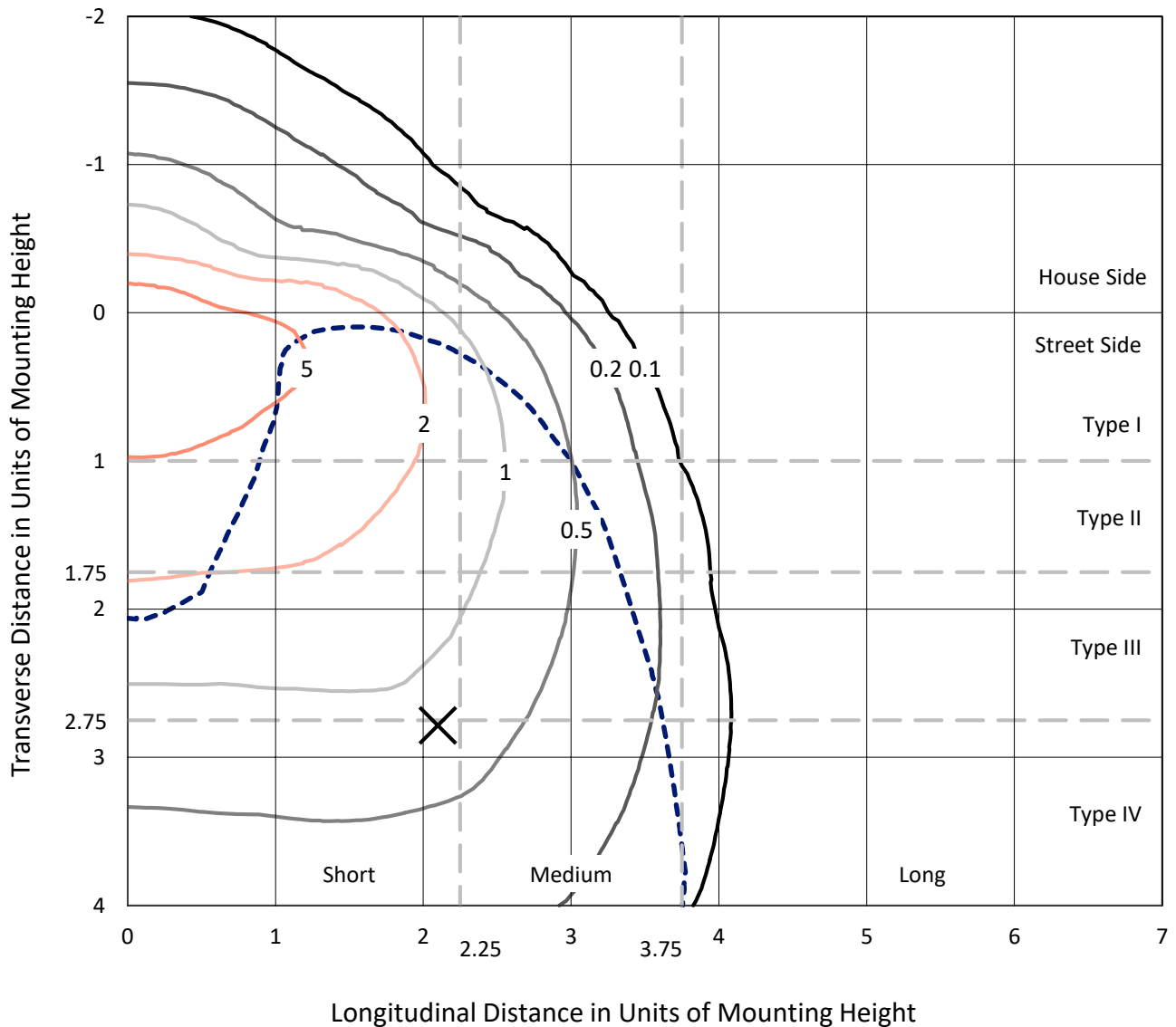
Input Watts (W): 279
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

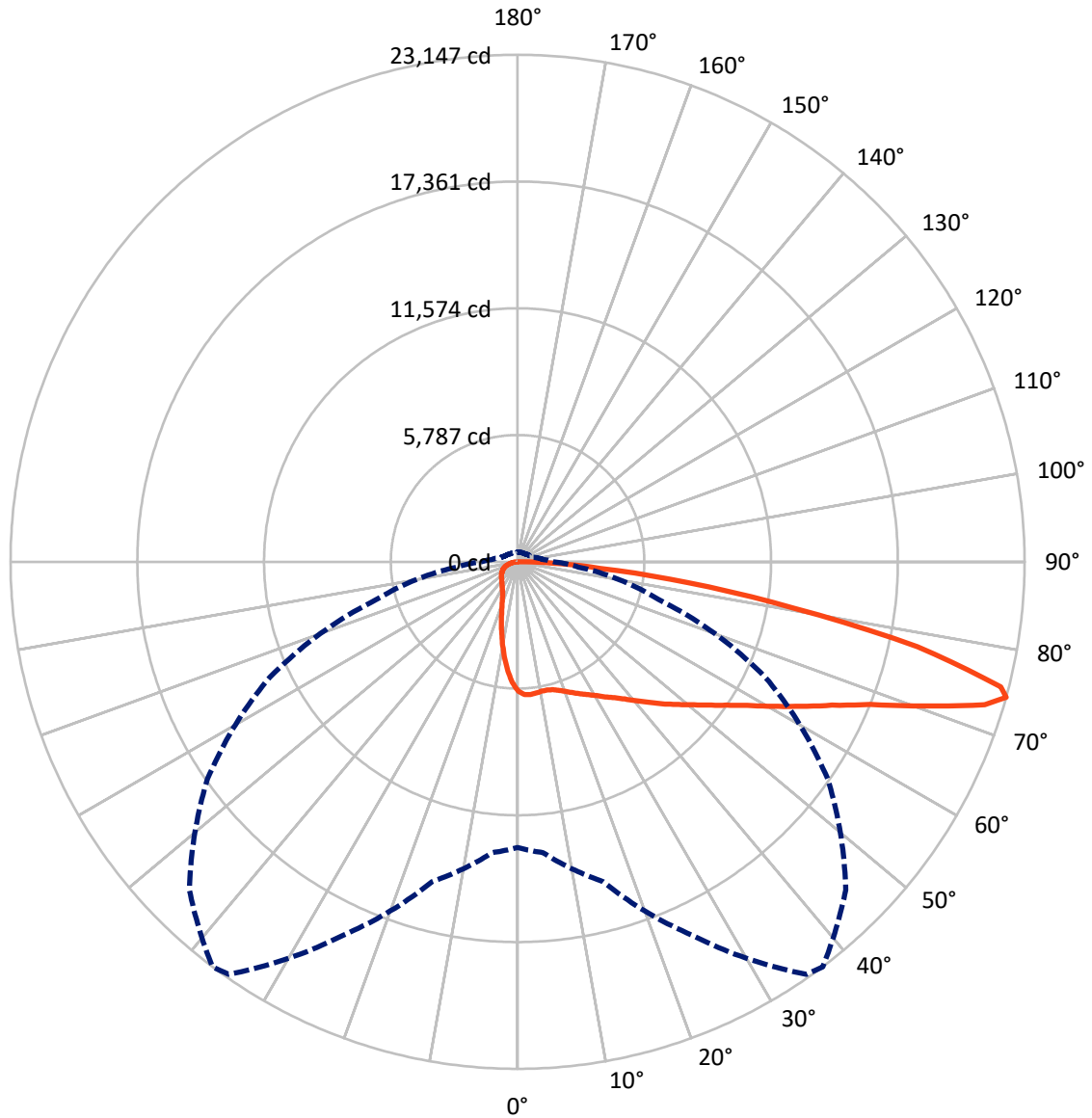
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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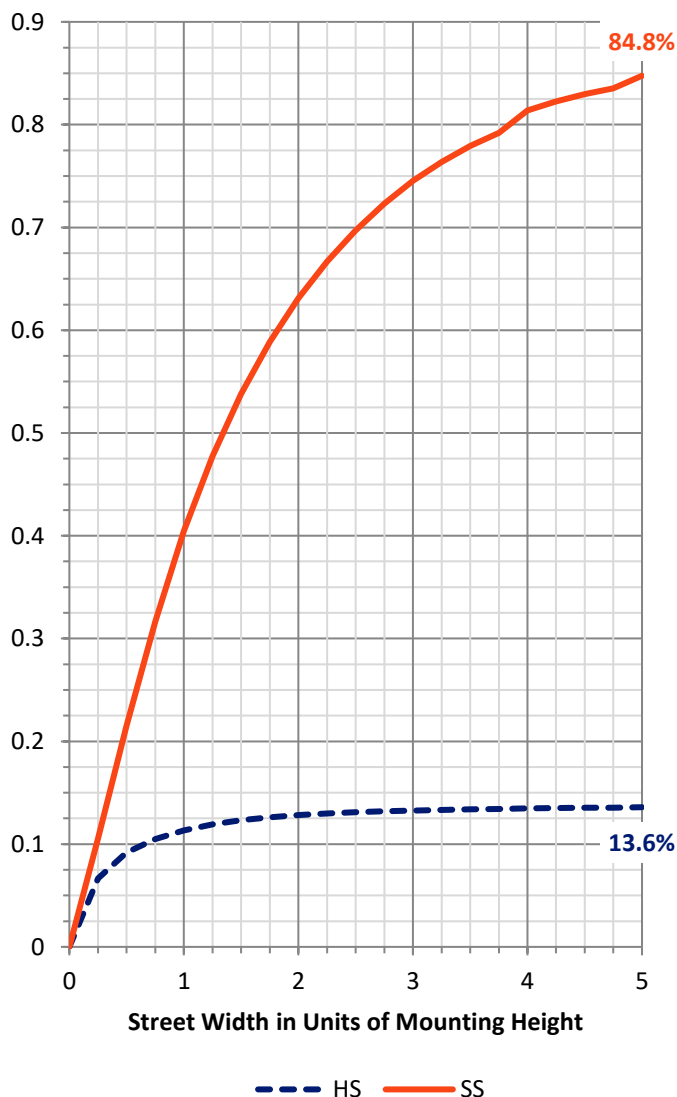
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4622.0	0.0	4622.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	28970.0	0.0	28970.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	33592.0	0.0	33592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.2	1.6
10°-20°	1336.0	4.0
20°-30°	2058.5	6.1
30°-40°	2993.4	8.9
40°-50°	4405.8	13.1
50°-60°	6187.1	18.4
60°-70°	7831.0	23.3
70°-80°	6895.5	20.5
80°-90°	1363.4	4.1
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°	33592.0	100.0
0°-180°	33592.0	100.0

Coefficient of Utilization

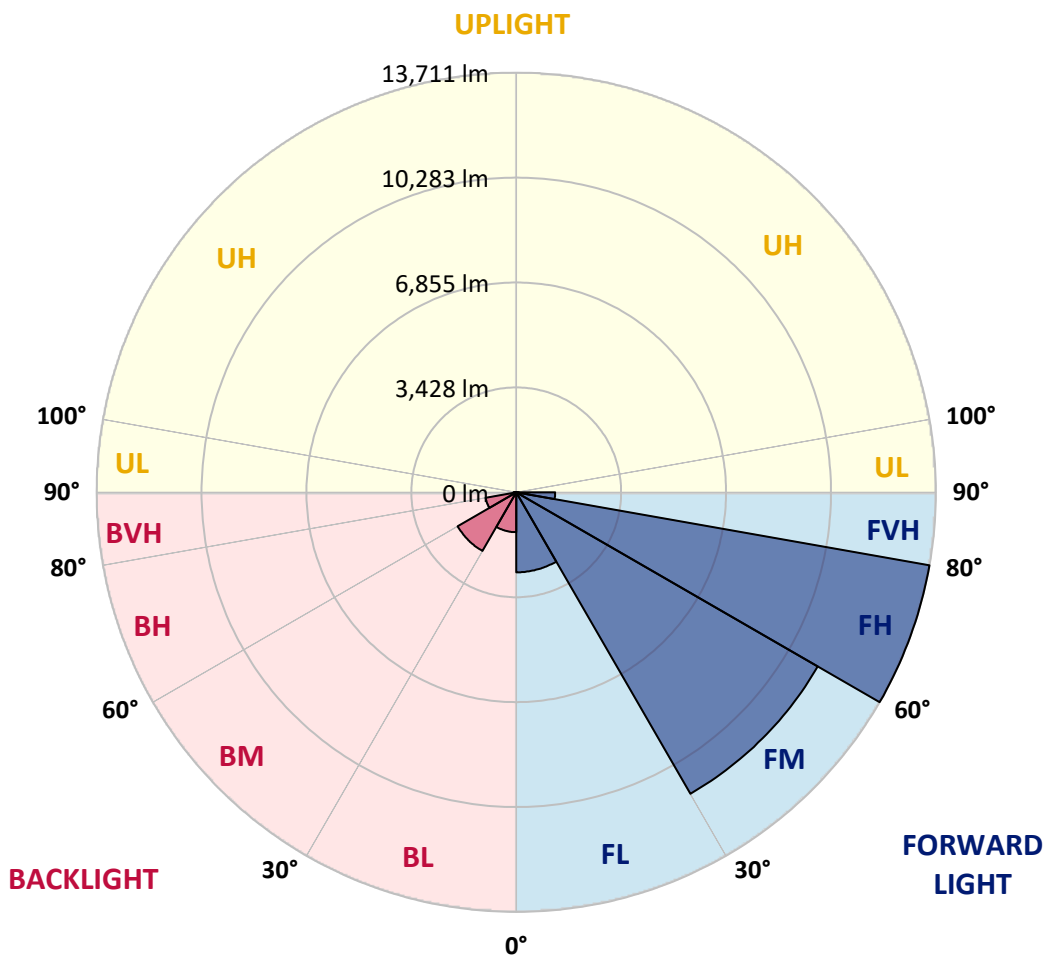


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2613.9	7.8			
FM (30°-60°)	11374.5	33.9			
FH (60°-80°)	13710.5	40.8			G5
FVH (80°-90°)	1271.1	3.8			G5
BL (0°-30°)	1301.9	3.9	B3/2500		
BM (30°-60°)	2211.8	6.6	B2/2500		
BH (60°-80°)	1016.0	3.0	B3/2500		G3/2500
BVH (80°-90°)	92.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8
2.5°	6121.1	6122.3	6121.1	6111.7	6089.2	6070.2	6054.9	6032.4	5982.7	5944.8	5888.0
5°	6179.1	6172.0	6167.3	6149.5	6114.0	6092.7	6063.1	6020.5	5938.9	5863.2	5770.9
7.5°	6151.9	6143.6	6133.0	6111.7	6071.4	6053.7	6012.3	5956.6	5858.4	5759.0	5626.5
10°	6067.9	6065.5	6060.8	6056.0	6021.7	6007.5	5969.7	5910.5	5813.5	5692.8	5537.8
12.5°	5974.4	5980.3	5999.2	6024.1	6008.7	6001.6	5977.9	5937.7	5838.3	5708.2	5521.2
15°	5915.2	5931.8	5982.7	6047.8	6060.8	6058.4	6052.5	6026.5	5921.1	5776.8	5559.1
17.5°	5895.1	5922.3	6019.4	6127.0	6164.9	6173.2	6175.6	6130.6	6013.4	5860.8	5598.1
20°	5931.8	5966.1	6108.1	6256.0	6316.4	6321.1	6310.4	6232.4	6101.0	5933.0	5619.4
22.5°	6043.0	6073.8	6251.3	6418.1	6486.8	6493.9	6461.9	6343.6	6193.3	6018.2	5649.0
25°	6257.2	6295.1	6472.6	6639.4	6674.9	6676.1	6629.9	6483.2	6314.0	6137.7	5712.9
27.5°	6536.5	6574.3	6734.1	6897.4	6878.4	6867.8	6805.1	6658.3	6471.4	6302.2	5826.5
30°	6847.7	6889.1	7040.5	7156.5	7111.5	7090.2	7039.3	6850.0	6690.3	6527.0	6000.4
32.5°	7169.5	7207.4	7339.9	7419.2	7362.4	7352.9	7276.0	7103.2	6975.5	6870.1	6282.0
35°	7499.6	7526.9	7657.0	7702.0	7626.3	7623.9	7602.6	7444.0	7363.6	7413.3	6691.5
37.5°	7836.9	7844.0	7955.2	7957.6	7935.1	7944.6	7967.0	7867.6	7890.1	8045.1	7223.9
40°	8137.4	8156.4	8236.8	8261.7	8300.7	8333.9	8446.3	8381.2	8555.1	8829.7	7886.6
42.5°	8359.9	8396.6	8525.6	8589.4	8716.1	8768.1	8926.7	8987.0	9337.3	9749.1	8674.6
45°	8548.0	8604.8	8811.9	8943.3	9157.4	9248.5	9475.7	9678.1	10221.2	10746.6	9504.1
47.5°	8751.6	8823.7	9082.9	9333.7	9624.8	9727.8	10140.7	10443.7	11164.3	11750.0	10286.3
50°	9050.9	9106.5	9359.8	9753.8	10117.1	10249.6	10821.1	11255.4	12122.7	12706.1	10964.3
52.5°	9468.6	9447.3	9661.5	10214.1	10701.6	10864.9	11547.7	12119.2	13094.2	13571.1	11537.0
55°	9888.7	9853.2	10003.5	10695.7	11383.2	11554.8	12347.6	12986.5	14018.4	14349.7	11976.0
57.5°	10356.1	10288.6	10415.3	11238.8	12159.4	12364.1	13243.3	13908.3	14927.1	14979.2	12255.3
60°	10837.7	10746.6	10888.6	11912.1	13145.1	13386.5	14291.7	14807.6	15783.8	15483.3	12345.2
62.5°	11258.9	11195.0	11413.9	12663.5	14256.2	14521.2	15321.1	15763.7	16628.7	15692.7	12021.0
65°	11626.9	11637.6	12016.2	13508.4	15495.1	15777.9	16502.1	16942.2	17293.7	15568.5	11262.5
67.5°	12065.9	12126.3	12772.4	14620.6	17054.7	17364.7	18220.2	18227.3	17665.2	14839.5	9769.2
70°	12706.1	12830.3	13812.5	16163.6	19272.1	19698.1	20358.4	18982.2	17143.4	12863.5	7686.6
72.5°	13274.1	13506.0	14918.8	17929.1	21974.7	22297.8	21609.1	18546.8	14962.6	9640.2	4788.7
74°	13043.3	13330.9	15120.0	18798.8	22992.4	23147.4	21186.7	17275.9	12475.3	6676.1	2783.1
75°	12546.3	12858.7	14826.5	18790.5	22863.4	22777.0	20166.7	15824.0	10274.4	4553.3	1851.8
77.5°	10125.4	10455.5	12493.1	16104.5	18746.7	18665.1	15491.5	10615.2	4500.0	1493.3	940.7
80°	5886.8	6138.9	7755.2	10227.1	12641.0	12788.9	10188.1	5252.6	1770.2	838.9	637.8
82.5°	2615.1	2789.0	3746.3	5220.6	7628.6	7819.1	5335.4	2752.3	1093.4	510.0	383.4
85°	1715.8	1844.7	2274.3	2486.1	3632.7	3762.8	2611.5	2142.9	721.8	280.4	281.6
87.5°	1234.2	1358.4	1689.7	1475.6	1667.2	1578.5	1421.1	1983.2	289.9	159.7	94.7
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°	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8	5918.8
2.5°	5863.2	5844.2	5801.6	5721.2	5676.2	5638.3	5575.6	5538.9	5522.4	5521.2	5528.3
5°	5717.6	5673.8	5563.8	5428.9	5321.2	5223.0	5101.1	5027.8	4975.7	4944.9	4953.2
7.5°	5548.4	5479.8	5307.0	5091.7	4918.9	4728.4	4540.3	4427.8	4340.3	4275.2	4287.0
10°	5432.5	5337.8	5085.7	4775.7	4488.2	4211.3	3952.2	3797.2	3674.1	3579.4	3586.5
12.5°	5393.4	5265.6	4916.5	4502.4	4098.9	3720.2	3381.8	3144.0	3017.4	2909.7	2918.0
15°	5399.3	5227.7	4774.5	4256.3	3748.6	3271.8	2861.2	2583.1	2411.5	2337.0	2338.2
17.5°	5404.1	5184.0	4625.5	3992.4	3401.9	2852.9	2406.8	2125.2	1963.1	1894.4	1895.6
20°	5388.7	5113.0	4440.9	3689.5	3039.9	2468.3	2036.4	1797.4	1674.3	1621.1	1621.1
22.5°	5368.6	5029.0	4232.6	3385.4	2682.5	2134.6	1771.4	1589.1	1518.2	1482.7	1481.5
25°	5378.0	4966.2	4019.6	3073.0	2353.5	1868.4	1595.1	1474.4	1427.0	1404.6	1403.4
27.5°	5428.9	4936.7	3823.2	2761.8	2066.0	1668.4	1476.7	1391.5	1360.8	1346.6	1346.6
30°	5521.2	4936.7	3618.5	2496.7	1827.0	1520.5	1385.6	1327.6	1306.3	1296.9	1296.9
32.5°	5682.1	4963.9	3420.9	2234.0	1636.5	1404.6	1309.9	1270.8	1254.3	1249.5	1249.5
35°	5959.0	5056.2	3228.0	1985.5	1482.7	1309.9	1237.7	1215.2	1203.4	1202.2	1205.8
37.5°	6348.3	5244.3	3047.0	1802.1	1373.8	1233.0	1177.4	1159.6	1152.5	1158.4	1163.2
40°	6838.2	5499.9	2882.5	1636.5	1291.0	1171.4	1121.8	1109.9	1106.4	1114.7	1121.8
42.5°	7429.8	5845.4	2747.6	1517.0	1227.1	1119.4	1074.4	1060.2	1056.7	1066.1	1075.6
45°	8070.0	6217.0	2652.9	1428.2	1177.4	1080.3	1033.0	1017.6	1010.5	1015.3	1025.9
47.5°	8652.2	6568.4	2615.1	1365.5	1130.0	1047.2	996.3	977.4	965.6	963.2	971.5
50°	9143.2	6829.9	2632.8	1327.6	1092.2	1010.5	960.8	939.5	921.8	911.1	917.0
52.5°	9500.6	6994.4	2649.4	1311.1	1062.6	970.3	921.8	901.7	878.0	860.2	860.2
55°	9759.7	7032.2	2612.7	1298.1	1040.1	926.5	878.0	859.1	835.4	815.3	812.9
57.5°	9861.5	6925.8	2476.6	1279.1	1024.7	885.1	831.8	817.6	797.5	773.9	772.7
60°	9724.2	6596.8	2213.9	1238.9	1004.6	850.8	785.7	776.2	766.8	744.3	743.1
62.5°	9172.8	5875.0	1874.3	1157.3	964.4	814.1	743.1	747.8	749.0	733.6	731.3
65°	8172.9	4883.4	1543.0	1050.8	904.0	770.3	699.3	721.8	734.8	732.5	728.9
67.5°	6719.9	3800.7	1307.5	938.3	824.7	710.0	652.0	678.0	688.7	697.0	694.6
70°	4987.5	2680.1	1081.5	820.0	728.9	639.0	590.5	603.5	596.4	605.8	609.4
72.5°	2780.7	1608.1	881.5	701.7	629.5	556.1	521.8	519.5	504.1	504.1	504.1
74°	1668.4	1179.7	775.1	628.3	569.2	501.7	472.1	461.5	447.3	448.5	447.3
75°	1341.8	1014.1	711.2	579.8	526.6	469.8	440.2	426.0	415.3	415.3	414.1
77.5°	847.2	770.3	572.7	461.5	421.2	386.9	366.8	347.9	347.9	346.7	345.5
80°	640.2	612.9	446.1	349.1	323.0	297.0	284.0	275.7	275.7	279.3	278.1
82.5°	439.0	461.5	313.6	243.8	230.7	211.8	209.4	210.6	207.1	202.3	201.2
85°	320.7	346.7	211.8	153.8	140.8	129.0	138.4	143.2	137.3	126.6	121.9
87.5°	123.1	227.2	113.6	63.9	59.2	50.9	59.2	61.5	66.3	52.1	53.2
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)