

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: P319973

Luminaire Tested: **GAN-SA9C-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319973
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-SA9C-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 54720 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

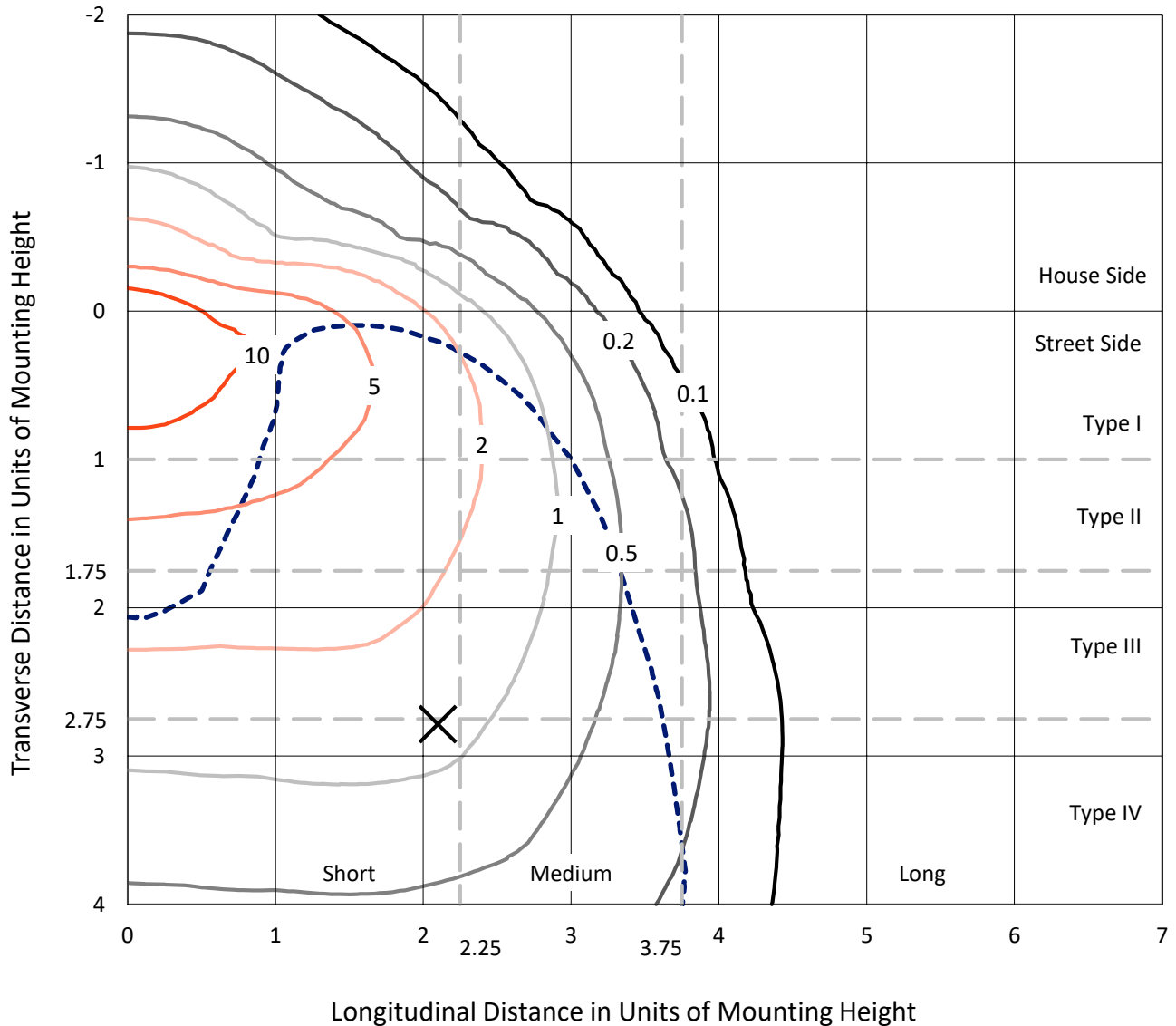
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

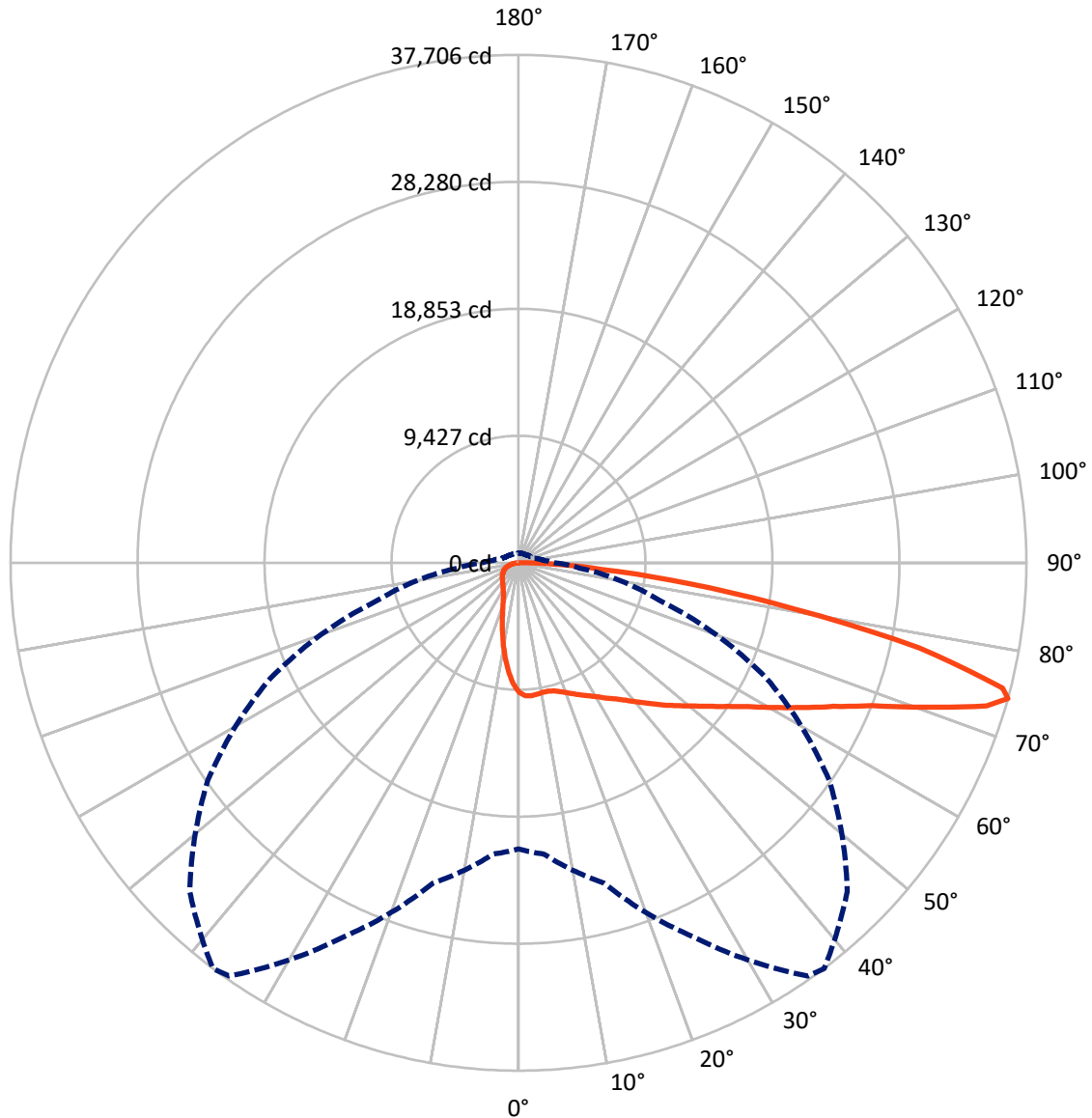
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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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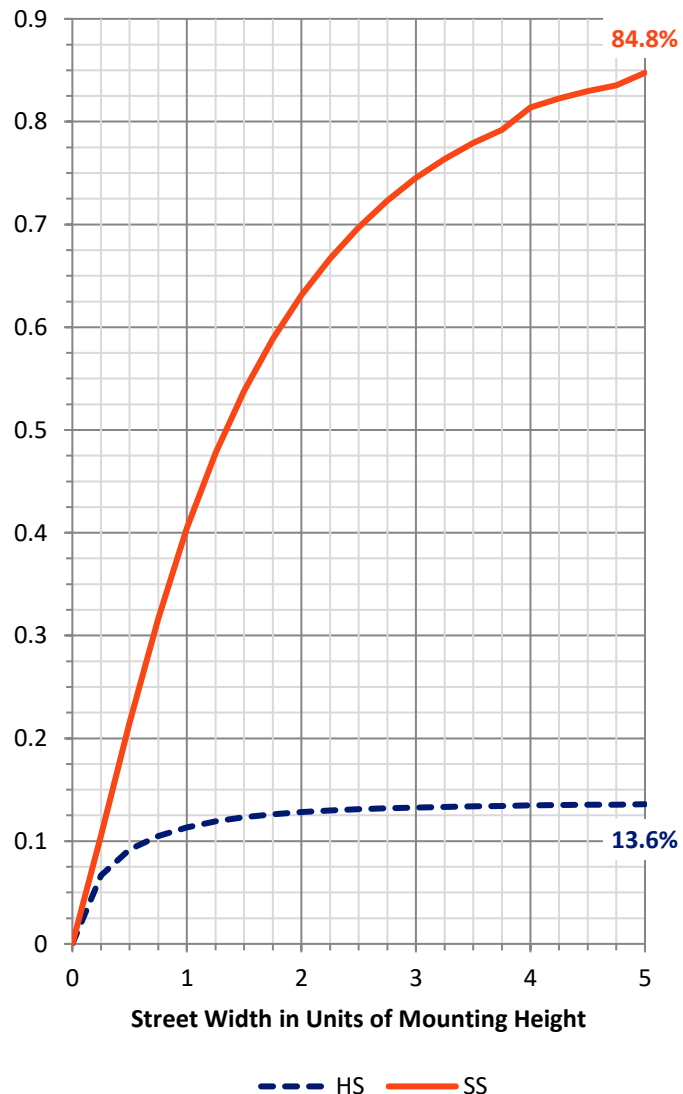
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7529.1	0.0	7529.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	47190.9	0.0	47190.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	54720.0	0.0	54720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	849.0	1.6
10°-20°	2176.3	4.0
20°-30°	3353.3	6.1
30°-40°	4876.1	8.9
40°-50°	7176.9	13.1
50°-60°	10078.6	18.4
60°-70°	12756.4	23.3
70°-80°	11232.5	20.5
80°-90°	2220.9	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°	54720.0	100.0
0°-180°	54720.0	100.0

Coefficient of Utilization



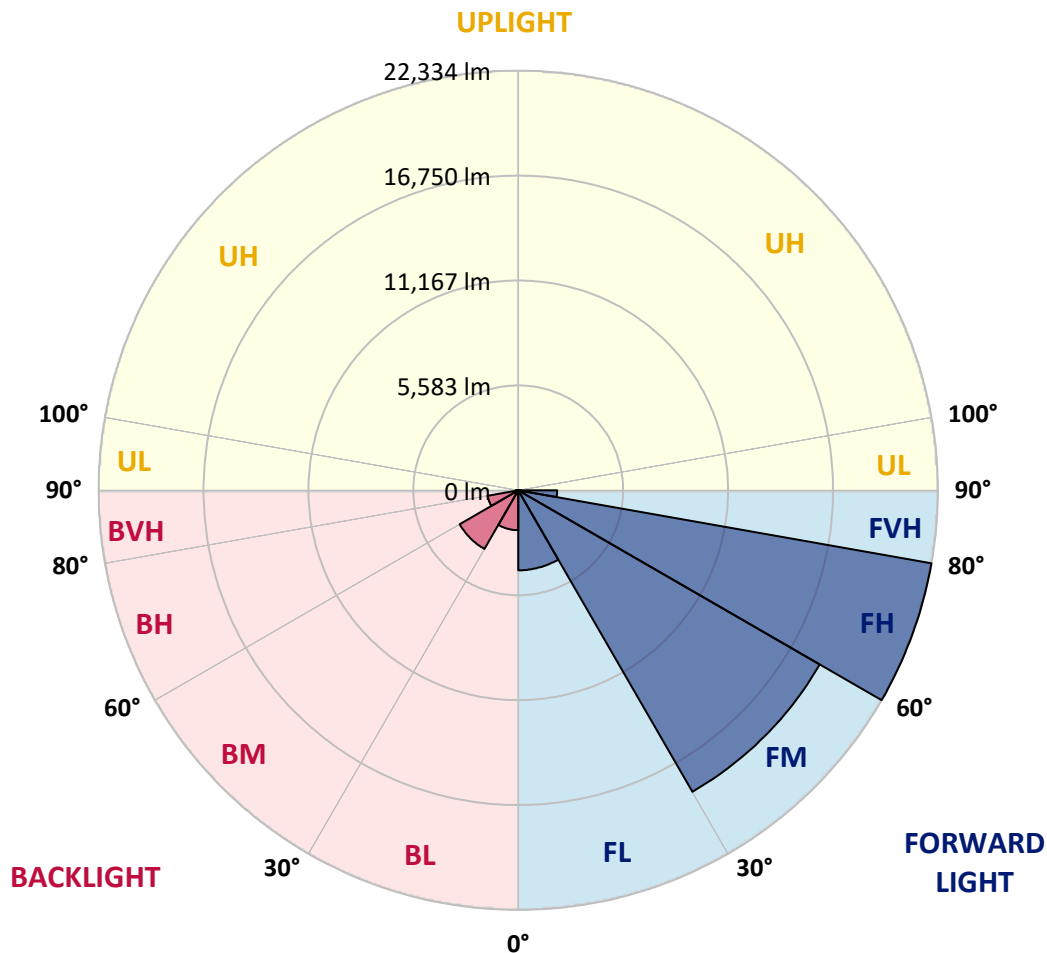
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4257.9	7.8			
FM (30°-60°)	18528.6	33.9			
FH (60°-80°)	22333.9	40.8			G5
FVH (80°-90°)	2070.5	3.8			G5
BL (0°-30°)	2120.8	3.9	B3/2500		
BM (30°-60°)	3603.0	6.6	B3/5000		
BH (60°-80°)	1655.0	3.0	B3/2500		G3/2500
BVH (80°-90°)	150.4	0.3			G2/225
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°	9641.5	9641.5	9641.5	9641.5	9641.5	9641.5	9641.5	9641.5	9641.5	9641.5	9641.5
2.5°	9971.1	9973.0	9971.1	9955.6	9919.0	9888.2	9863.1	9826.5	9745.5	9683.9	9591.3
5°	10065.5	10053.9	10046.2	10017.3	9959.5	9924.8	9876.6	9807.2	9674.2	9550.9	9400.5
7.5°	10021.2	10007.7	9990.3	9955.6	9890.1	9861.2	9793.7	9703.1	9543.1	9381.2	9165.4
10°	9884.3	9880.5	9872.8	9865.0	9809.1	9786.0	9724.3	9628.0	9469.9	9273.3	9020.8
12.5°	9732.0	9741.7	9772.5	9813.0	9787.9	9776.4	9737.8	9672.3	9510.4	9298.4	8993.8
15°	9635.7	9662.7	9745.5	9851.6	9872.8	9868.9	9859.3	9816.9	9645.3	9410.1	9055.5
17.5°	9602.9	9647.2	9805.3	9980.7	10042.4	10055.9	10059.7	9986.5	9795.7	9547.0	9119.1
20°	9662.7	9718.6	9949.9	10190.8	10289.1	10296.8	10279.5	10152.2	9938.3	9664.6	9153.8
22.5°	9843.8	9894.0	10183.1	10454.9	10566.7	10578.2	10526.2	10333.4	10088.6	9803.4	9202.0
25°	10192.7	10254.4	10543.5	10815.3	10873.1	10875.1	10799.9	10560.9	10285.2	9998.0	9306.1
27.5°	10647.6	10709.3	10969.5	11235.5	11204.7	11187.3	11085.2	10846.2	10541.6	10266.0	9491.1
30°	11154.6	11222.0	11468.7	11657.6	11584.4	11549.7	11466.8	11158.4	10898.2	10632.2	9774.5
32.5°	11678.8	11740.5	11956.4	12085.5	11993.0	11977.6	11852.3	11570.9	11362.7	11191.2	10233.2
35°	12216.6	12261.0	12473.0	12546.2	12422.9	12419.0	12384.3	12126.0	11995.0	12075.9	10900.1
37.5°	12766.0	12777.5	12958.7	12962.6	12925.9	12941.4	12978.0	12816.1	12852.7	13105.2	11767.5
40°	13255.6	13286.4	13417.5	13457.9	13521.5	13575.5	13758.6	13652.6	13936.0	14383.1	12846.9
42.5°	13617.9	13677.7	13887.8	13991.9	14198.1	14282.9	14541.2	14639.5	15210.1	15880.8	14130.6
45°	13924.4	14016.9	14354.2	14568.2	14917.1	15065.5	15435.6	15765.2	16649.9	17505.7	15481.8
47.5°	14255.9	14373.5	14795.6	15204.3	15678.4	15846.1	16518.8	17012.3	18186.1	19140.3	16755.9
50°	14743.6	14834.2	15246.7	15888.5	16480.3	16696.2	17627.2	18334.6	19747.4	20697.7	17860.4
52.5°	15424.0	15389.3	15738.2	16638.3	17432.5	17698.5	18810.7	19741.7	21329.9	22106.7	18793.3
55°	16108.3	16050.5	16295.2	17422.8	18542.7	18822.2	20113.7	21154.5	22835.3	23375.0	19508.4
57.5°	16869.6	16759.8	16966.0	18307.6	19807.2	20140.6	21572.8	22656.1	24315.7	24400.5	19963.3
60°	17654.1	17505.7	17737.0	19404.3	21412.8	21806.0	23280.6	24121.0	25711.2	25221.6	20109.8
62.5°	18340.3	18236.3	18592.9	20628.3	23222.8	23654.5	24957.5	25678.4	27087.4	25562.8	19581.7
65°	18939.8	18957.2	19574.0	22004.6	25240.9	25701.5	26881.2	27598.2	28170.7	25360.4	18346.1
67.5°	19654.9	19753.2	20805.6	23816.4	27781.3	28286.3	29679.9	29691.5	28775.9	24173.0	15913.6
70°	20697.7	20900.1	22499.9	26329.9	31393.5	32087.4	33163.0	30921.3	27925.9	20954.1	12521.2
72.5°	21622.9	22000.7	24302.2	29205.8	35796.0	36322.2	35200.4	30211.9	24373.5	15703.5	7800.7
74°	21247.0	21715.4	24629.8	30622.5	37453.6	37706.1	34512.2	28141.8	20321.8	10875.1	4533.5
75°	20437.5	20946.4	24151.8	30609.0	37243.5	37102.8	32850.7	25776.7	16736.7	7417.1	3016.6
77.5°	16493.8	17031.6	20350.7	26233.5	30537.7	30404.7	25235.1	17291.8	7330.4	2432.5	1532.4
80°	9589.4	10000.0	12633.0	16659.5	20591.7	20832.6	16595.9	8556.3	2883.6	1366.6	1038.9
82.5°	4259.8	4543.2	6102.5	8504.2	12426.7	12737.0	8691.2	4483.4	1781.0	830.8	624.5
85°	2794.9	3005.0	3704.7	4049.7	5917.5	6129.5	4254.0	3490.7	1175.8	456.8	458.7
87.5°	2010.4	2212.8	2752.5	2403.6	2715.9	2571.3	2315.0	3230.5	472.2	260.2	154.2
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°	9641.5	9641.5	9641.5	9641.5	9641.5	9641.5	9641.5	9641.5	9641.5	9641.5	9641.5
2.5°	9550.9	9520.0	9450.6	9319.6	9246.3	9184.6	9082.5	9022.7	8995.7	8993.8	9005.4
5°	9313.8	9242.5	9063.2	8843.5	8668.1	8508.1	8309.5	8190.0	8105.2	8055.1	8068.6
7.5°	9038.1	8926.3	8644.9	8294.1	8012.7	7702.4	7395.9	7212.8	7070.1	6964.1	6983.4
10°	8849.2	8695.0	8284.5	7779.5	7311.1	6860.0	6437.9	6185.4	5984.9	5830.7	5842.3
12.5°	8785.6	8577.5	8008.8	7334.2	6676.9	6060.1	5508.9	5121.4	4915.2	4739.8	4753.3
15°	8795.3	8515.8	7777.5	6933.3	6106.4	5329.6	4660.7	4207.8	3928.3	3806.9	3808.8
17.5°	8803.0	8444.5	7534.7	6503.5	5541.6	4647.2	3920.6	3461.8	3197.8	3086.0	3087.9
20°	8777.9	8328.8	7234.0	6010.0	4951.8	4020.8	3317.3	2927.9	2727.4	2640.7	2640.7
22.5°	8745.2	8192.0	6894.7	5514.6	4369.7	3477.2	2885.5	2588.7	2473.0	2415.2	2413.3
25°	8760.6	8089.8	6547.8	5005.8	3833.8	3043.6	2598.3	2401.7	2324.6	2288.0	2286.0
27.5°	8843.5	8041.6	6227.8	4498.8	3365.4	2717.8	2405.5	2266.8	2216.6	2193.5	2193.5
30°	8993.8	8041.6	5894.4	4067.1	2976.1	2476.9	2257.1	2162.7	2128.0	2112.6	2112.6
32.5°	9255.9	8085.9	5572.5	3639.2	2665.8	2288.0	2133.8	2070.2	2043.2	2035.5	2035.5
35°	9707.0	8236.3	5258.3	3234.4	2415.2	2133.8	2016.2	1979.6	1960.3	1958.4	1964.1
37.5°	10341.1	8542.8	4963.4	2935.6	2237.8	2008.5	1917.9	1889.0	1877.4	1887.0	1894.8
40°	11139.1	8959.1	4695.4	2665.8	2102.9	1908.2	1827.3	1808.0	1802.2	1815.7	1827.3
42.5°	12102.9	9521.9	4475.7	2471.1	1998.8	1823.4	1750.2	1727.1	1721.3	1736.7	1752.1
45°	13145.7	10127.2	4321.5	2326.5	1917.9	1759.8	1682.7	1657.7	1646.1	1653.8	1671.2
47.5°	14094.0	10699.7	4259.8	2224.4	1840.8	1705.9	1623.0	1592.1	1572.9	1569.0	1582.5
50°	14893.9	11125.6	4288.7	2162.7	1779.1	1646.1	1565.1	1530.5	1501.5	1484.2	1493.8
52.5°	15476.1	11393.6	4315.7	2135.7	1730.9	1580.6	1501.5	1468.8	1430.2	1401.3	1401.3
55°	15898.2	11455.2	4256.0	2114.5	1694.3	1509.2	1430.2	1399.4	1360.8	1328.1	1324.2
57.5°	16063.9	11281.8	4034.3	2083.6	1669.2	1441.8	1355.0	1331.9	1299.1	1260.6	1258.7
60°	15840.4	10745.9	3606.4	2018.1	1636.5	1385.9	1279.9	1264.5	1249.0	1212.4	1210.5
62.5°	14942.1	9570.1	3053.2	1885.1	1570.9	1326.1	1210.5	1218.2	1220.1	1195.1	1191.2
65°	13313.4	7954.9	2513.5	1711.6	1472.6	1254.8	1139.2	1175.8	1197.0	1193.1	1187.4
67.5°	10946.4	6191.2	2129.9	1528.5	1343.5	1156.5	1062.1	1104.5	1121.8	1135.3	1131.5
70°	8124.5	4365.8	1761.8	1335.8	1187.4	1040.9	961.8	983.0	971.5	986.9	992.7
72.5°	4529.7	2619.5	1436.0	1143.0	1025.4	905.9	850.0	846.2	821.1	821.1	821.1
74°	2717.8	1921.7	1262.5	1023.5	927.1	817.3	769.1	751.7	728.6	730.5	728.6
75°	2185.8	1651.9	1158.4	944.5	857.7	765.2	717.0	693.9	676.6	676.6	674.6
77.5°	1380.1	1254.8	932.9	751.7	686.2	630.3	597.5	566.7	566.7	564.8	562.8
80°	1042.8	998.5	726.7	568.6	526.2	483.8	462.6	449.1	449.1	454.9	453.0
82.5°	715.1	751.7	510.8	397.1	375.9	345.0	341.2	343.1	337.3	329.6	327.7
85°	522.4	564.8	345.0	250.6	229.4	210.1	225.5	233.2	223.6	206.2	198.5
87.5°	200.5	370.1	185.0	104.1	96.4	82.9	96.4	100.2	107.9	84.8	86.7
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)