

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: P320033

Luminaire Tested: **GAN-SA9A-750-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320033
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-SA9A-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 615mA 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: 39588 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

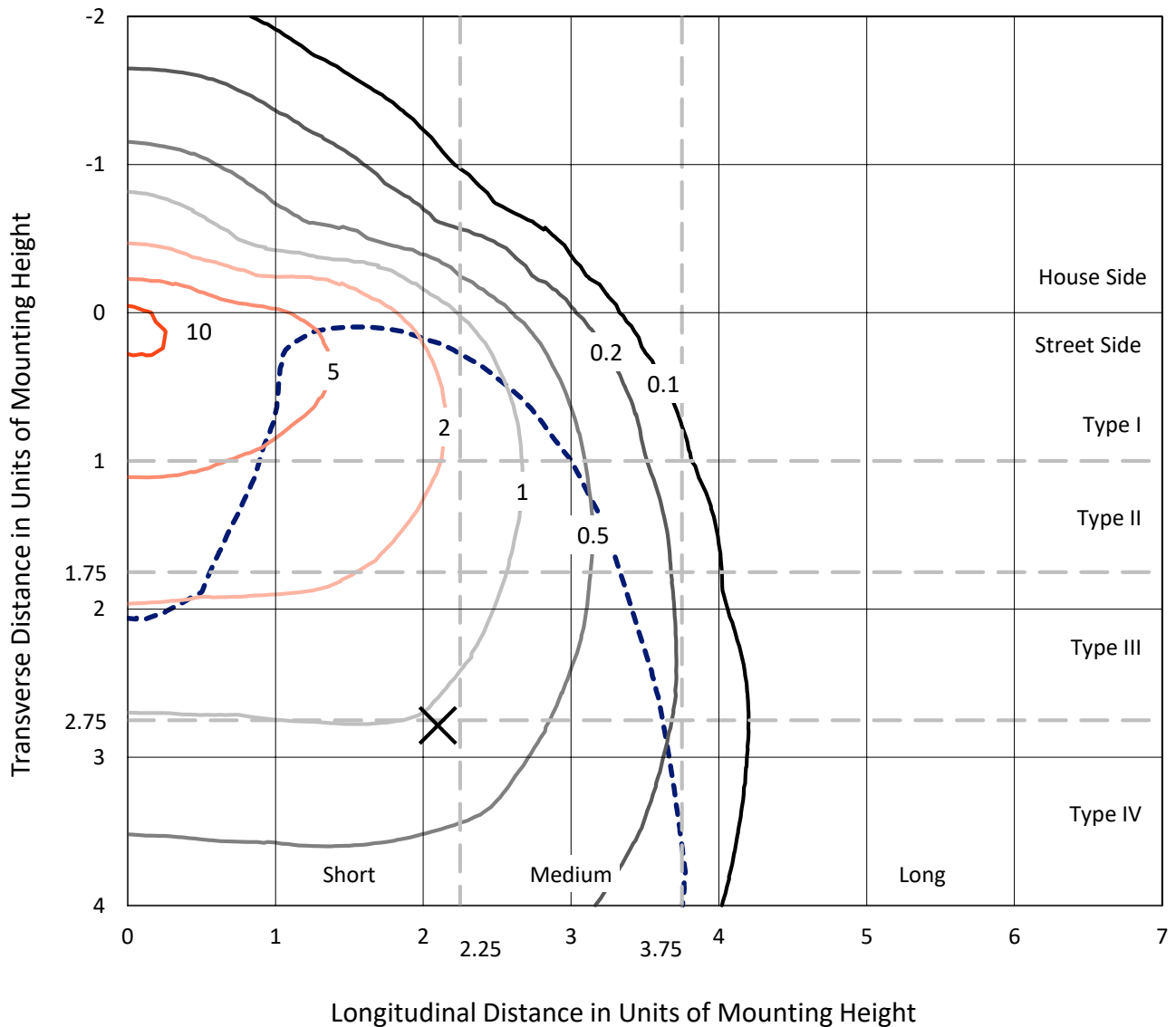
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

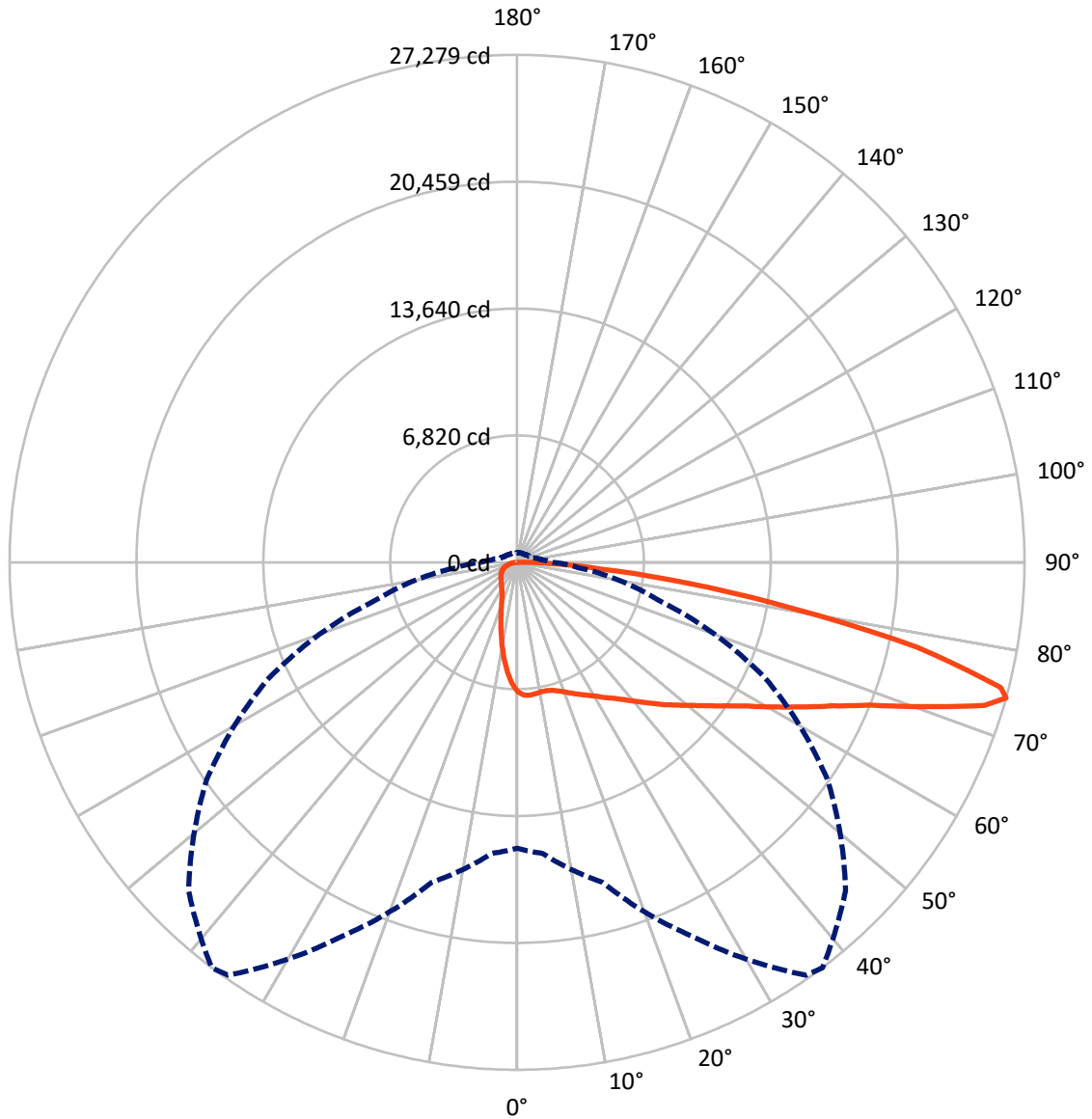
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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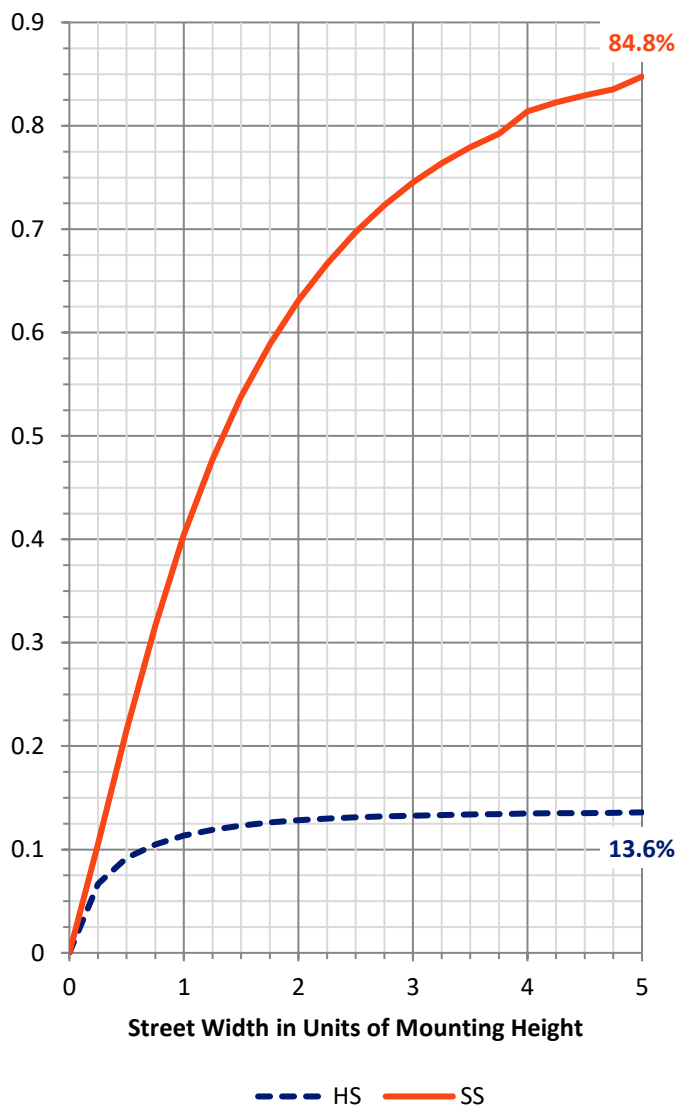
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5447.0	0.0	5447.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	34141.0	0.0	34141.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	39588.0	0.0	39588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.3	1.6
10°-20°	1574.5	4.0
20°-30°	2426.0	6.1
30°-40°	3527.7	8.9
40°-50°	5192.2	13.1
50°-60°	7291.5	18.4
60°-70°	9228.8	23.3
70°-80°	8126.3	20.5
80°-90°	1606.7	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°	39588.0	100.0
0°-180°	39588.0	100.0

Coefficient of Utilization

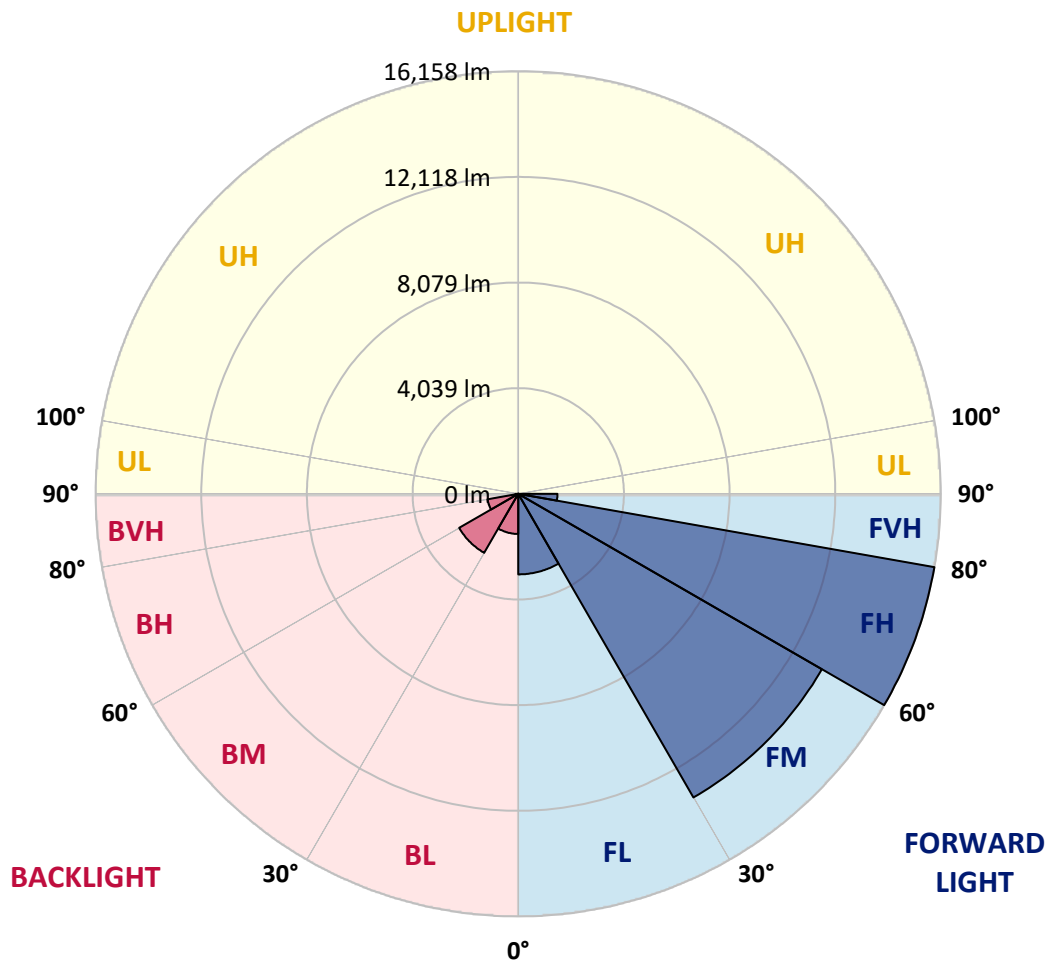


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3080.4	7.8			
FM (30°-60°)	13404.8	33.9			
FH (60°-80°)	16157.8	40.8			G5
FVH (80°-90°)	1497.9	3.8			G5
BL (0°-30°)	1534.3	3.9	B3/2500		
BM (30°-60°)	2606.6	6.6	B3/5000		
BH (60°-80°)	1197.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	108.8	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°	6975.3	6975.3	6975.3	6975.3	6975.3	6975.3	6975.3	6975.3	6975.3	6975.3	6975.3
2.5°	7213.7	7215.1	7213.7	7202.6	7176.1	7153.7	7135.6	7109.1	7050.6	7005.9	6939.0
5°	7282.0	7273.7	7268.1	7247.2	7205.3	7180.2	7145.4	7095.2	6999.0	6909.7	6800.9
7.5°	7250.0	7240.2	7227.7	7202.6	7155.1	7134.2	7085.4	7019.9	6904.1	6787.0	6630.8
10°	7151.0	7148.2	7142.6	7137.0	7096.6	7079.8	7035.2	6965.5	6851.1	6708.9	6526.2
12.5°	7040.8	7047.8	7070.1	7099.4	7081.2	7072.9	7045.0	6997.6	6880.4	6727.0	6506.7
15°	6971.1	6990.6	7050.6	7127.3	7142.6	7139.8	7132.8	7102.2	6978.0	6807.9	6551.3
17.5°	6947.4	6979.4	7093.8	7220.7	7265.3	7275.1	7277.9	7224.9	7086.8	6906.9	6597.3
20°	6990.6	7031.0	7198.4	7372.7	7443.8	7449.4	7436.8	7344.8	7190.0	6992.0	6622.4
22.5°	7121.7	7157.9	7367.1	7563.7	7644.6	7653.0	7615.3	7475.9	7298.8	7092.4	6657.3
25°	7374.1	7418.7	7627.9	7824.5	7866.3	7867.7	7813.3	7640.4	7441.0	7233.2	6732.6
27.5°	7703.2	7747.8	7936.1	8128.5	8106.2	8093.6	8019.7	7846.8	7626.5	7427.1	6866.5
30°	8069.9	8118.7	8297.2	8433.9	8380.9	8355.8	8295.8	8072.7	7884.5	7692.0	7071.5
32.5°	8449.2	8493.9	8650.0	8743.5	8676.5	8665.4	8574.7	8371.1	8220.5	8096.4	7403.4
35°	8838.3	8870.4	9023.8	9076.8	8987.5	8984.7	8959.6	8772.8	8677.9	8736.5	7885.9
37.5°	9235.7	9244.1	9375.2	9378.0	9351.5	9362.6	9389.1	9272.0	9298.5	9481.2	8513.4
40°	9589.9	9612.2	9707.1	9736.3	9782.4	9821.4	9953.9	9877.2	10082.2	10405.7	9294.3
42.5°	9852.1	9895.3	10047.3	10122.6	10271.8	10333.2	10520.1	10591.2	11003.9	11489.2	10223.0
45°	10073.8	10140.8	10384.8	10539.6	10792.0	10899.4	11167.1	11405.6	12045.6	12664.8	11200.6
47.5°	10313.7	10398.7	10704.1	10999.8	11342.8	11464.1	11950.8	12307.8	13157.0	13847.3	12122.3
50°	10666.5	10732.0	11030.4	11494.8	11922.9	12079.1	12752.6	13264.4	14286.6	14974.1	12921.4
52.5°	11158.7	11133.6	11386.0	12037.3	12611.8	12804.2	13608.9	14282.4	15431.5	15993.4	13596.3
55°	11653.8	11611.9	11789.0	12604.8	13415.0	13617.2	14551.5	15304.6	16520.6	16911.0	14113.7
57.5°	12204.6	12125.1	12274.3	13244.9	14329.8	14571.1	15607.2	16390.9	17591.5	17652.9	14442.8
60°	12772.2	12664.8	12832.1	14038.4	15491.4	15775.9	16842.7	17450.7	18601.1	18246.9	14548.7
62.5°	13268.6	13193.3	13451.3	14923.9	16800.8	17113.2	18055.9	18577.4	19596.8	18493.8	14166.7
65°	13702.3	13714.8	14161.1	15919.5	18260.9	18594.2	19447.6	19966.3	20380.5	18347.3	13272.8
67.5°	14219.6	14290.8	15052.2	17230.4	20098.8	20464.2	21472.4	21480.8	20818.4	17488.3	11512.9
70°	14974.1	15120.5	16277.9	19048.8	22712.1	23214.1	23992.2	22370.5	20203.4	15159.5	9058.6
72.5°	15643.4	15916.7	17581.8	21129.4	25897.1	26277.8	25466.2	21857.3	17633.4	11360.9	5643.5
74°	15371.5	15710.4	17818.8	22154.3	27096.4	27279.1	24968.4	20359.6	14702.1	7867.7	3279.8
75°	14785.8	15154.0	17473.0	22144.5	26944.4	26842.6	23766.3	18648.6	12108.4	5366.0	2182.4
77.5°	11932.7	12321.7	14723.1	18979.0	22092.9	21996.7	18256.7	12510.0	5303.3	1759.8	1108.6
80°	6937.6	7234.6	9139.5	12052.6	14897.4	15071.7	12006.6	6190.2	2086.2	988.7	751.6
82.5°	3081.8	3286.8	4415.0	6152.5	8990.3	9214.8	6287.8	3243.6	1288.5	601.0	451.8
85°	2022.0	2174.0	2680.2	2929.8	4281.1	4434.5	3077.6	2525.4	850.6	330.5	331.9
87.5°	1454.5	1600.9	1991.3	1738.9	1964.8	1860.3	1674.8	2337.2	341.7	188.3	111.6
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°	6975.3	6975.3	6975.3	6975.3	6975.3	6975.3	6975.3	6975.3	6975.3	6975.3	6975.3
2.5°	6909.7	6887.4	6837.2	6742.4	6689.4	6644.8	6570.8	6527.6	6508.1	6506.7	6515.1
5°	6738.2	6686.6	6556.9	6397.9	6271.0	6155.3	6011.7	5925.2	5863.8	5827.6	5837.3
7.5°	6538.8	6457.9	6254.3	6000.5	5796.9	5572.4	5350.7	5218.2	5115.0	5038.3	5052.2
10°	6402.1	6290.6	5993.5	5628.2	5289.3	4963.0	4657.6	4474.9	4329.9	4218.3	4226.7
12.5°	6356.1	6205.5	5794.1	5306.0	4830.5	4384.3	3985.5	3705.2	3556.0	3429.1	3438.8
15°	6363.1	6160.9	5626.8	5016.0	4417.8	3855.8	3371.9	3044.2	2842.0	2754.1	2755.5
17.5°	6368.6	6109.3	5451.1	4705.0	4009.2	3362.1	2836.4	2504.5	2313.5	2232.6	2234.0
20°	6350.5	6025.6	5233.5	4348.0	3582.5	2908.9	2399.9	2118.2	1973.2	1910.5	1910.5
22.5°	6326.8	5926.6	4988.1	3989.6	3161.3	2515.7	2087.6	1872.8	1789.1	1747.3	1745.9
25°	6338.0	5852.7	4737.1	3621.5	2773.6	2201.9	1879.8	1737.5	1681.8	1655.3	1653.9
27.5°	6397.9	5817.8	4505.6	3254.7	2434.8	1966.2	1740.3	1639.9	1603.7	1586.9	1586.9
30°	6506.7	5817.8	4264.4	2942.4	2153.1	1791.9	1633.0	1564.6	1539.5	1528.4	1528.4
32.5°	6696.4	5849.9	4031.5	2632.8	1928.6	1655.3	1543.7	1497.7	1478.2	1472.6	1472.6
35°	7022.7	5958.7	3804.2	2340.0	1747.3	1543.7	1458.6	1432.1	1418.2	1416.8	1421.0
37.5°	7481.5	6180.4	3590.8	2123.8	1619.0	1453.1	1387.5	1366.6	1358.2	1365.2	1370.8
40°	8058.8	6481.6	3397.0	1928.6	1521.4	1380.5	1322.0	1308.0	1303.9	1313.6	1322.0
42.5°	8756.0	6888.8	3238.0	1787.7	1446.1	1319.2	1266.2	1249.5	1245.3	1256.4	1267.6
45°	9510.4	7326.7	3126.5	1683.2	1387.5	1273.2	1217.4	1199.3	1190.9	1196.5	1209.0
47.5°	10196.5	7740.8	3081.8	1609.2	1331.7	1234.1	1174.2	1151.9	1137.9	1135.1	1144.9
50°	10775.2	8049.0	3102.7	1564.6	1287.1	1190.9	1132.3	1107.2	1086.3	1073.8	1080.7
52.5°	11196.4	8242.8	3122.3	1545.1	1252.3	1143.5	1086.3	1062.6	1034.7	1013.8	1013.8
55°	11501.8	8287.5	3079.0	1529.8	1225.8	1091.9	1034.7	1012.4	984.5	960.8	958.0
57.5°	11621.7	8162.0	2918.7	1507.4	1207.6	1043.1	980.3	963.6	939.9	912.0	910.6
60°	11459.9	7774.3	2609.1	1460.0	1183.9	1002.6	925.9	914.8	903.6	877.1	875.7
62.5°	10810.1	6923.7	2208.9	1363.8	1136.5	959.4	875.7	881.3	882.7	864.6	861.8
65°	9631.8	5755.1	1818.4	1238.3	1065.4	907.8	824.1	850.6	866.0	863.2	859.0
67.5°	7919.3	4479.1	1540.9	1105.8	972.0	836.7	768.4	799.0	811.6	821.4	818.6
70°	5877.8	3158.5	1274.6	966.4	859.0	753.0	695.9	711.2	702.8	714.0	718.2
72.5°	3277.1	1895.1	1038.9	826.9	741.9	655.4	615.0	612.2	594.1	594.1	594.1
74°	1966.2	1390.3	913.4	740.5	670.8	591.3	556.4	543.9	527.1	528.5	527.1
75°	1581.4	1195.1	838.1	683.3	620.5	553.6	518.8	502.0	489.5	489.5	488.1
77.5°	998.5	907.8	674.9	543.9	496.4	456.0	432.3	410.0	410.0	408.6	407.2
80°	754.4	722.3	525.7	411.4	380.7	350.0	334.7	324.9	324.9	329.1	327.7
82.5°	517.4	543.9	369.5	287.3	271.9	249.6	246.8	248.2	244.0	238.5	237.1
85°	377.9	408.6	249.6	181.3	165.9	152.0	163.2	168.7	161.8	149.2	143.6
87.5°	145.0	267.7	133.9	75.3	69.7	60.0	69.7	72.5	78.1	61.4	62.8
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)