

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: P319953

Luminaire Tested: **GAN-SA9A-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319953
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-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 36053 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

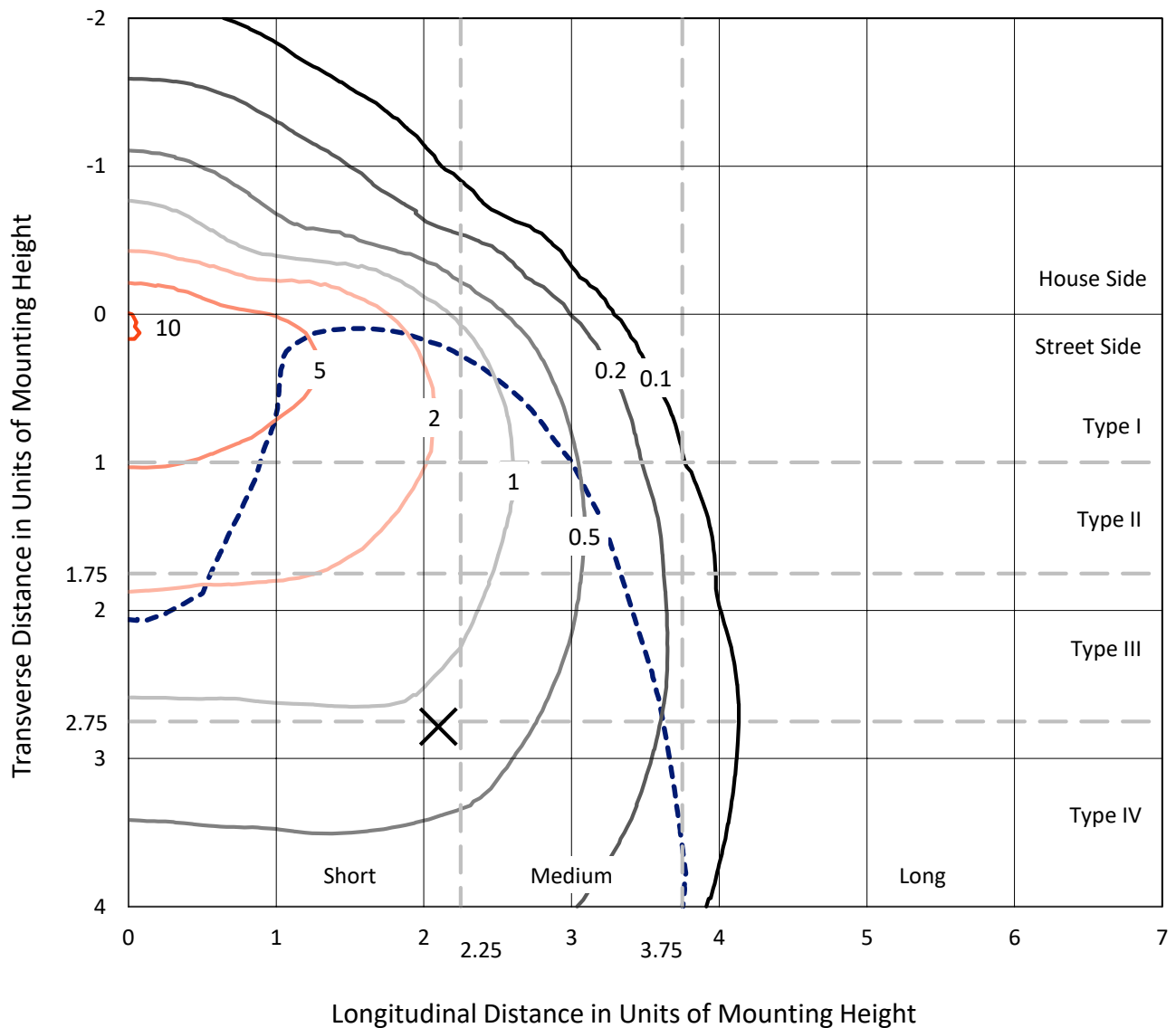
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

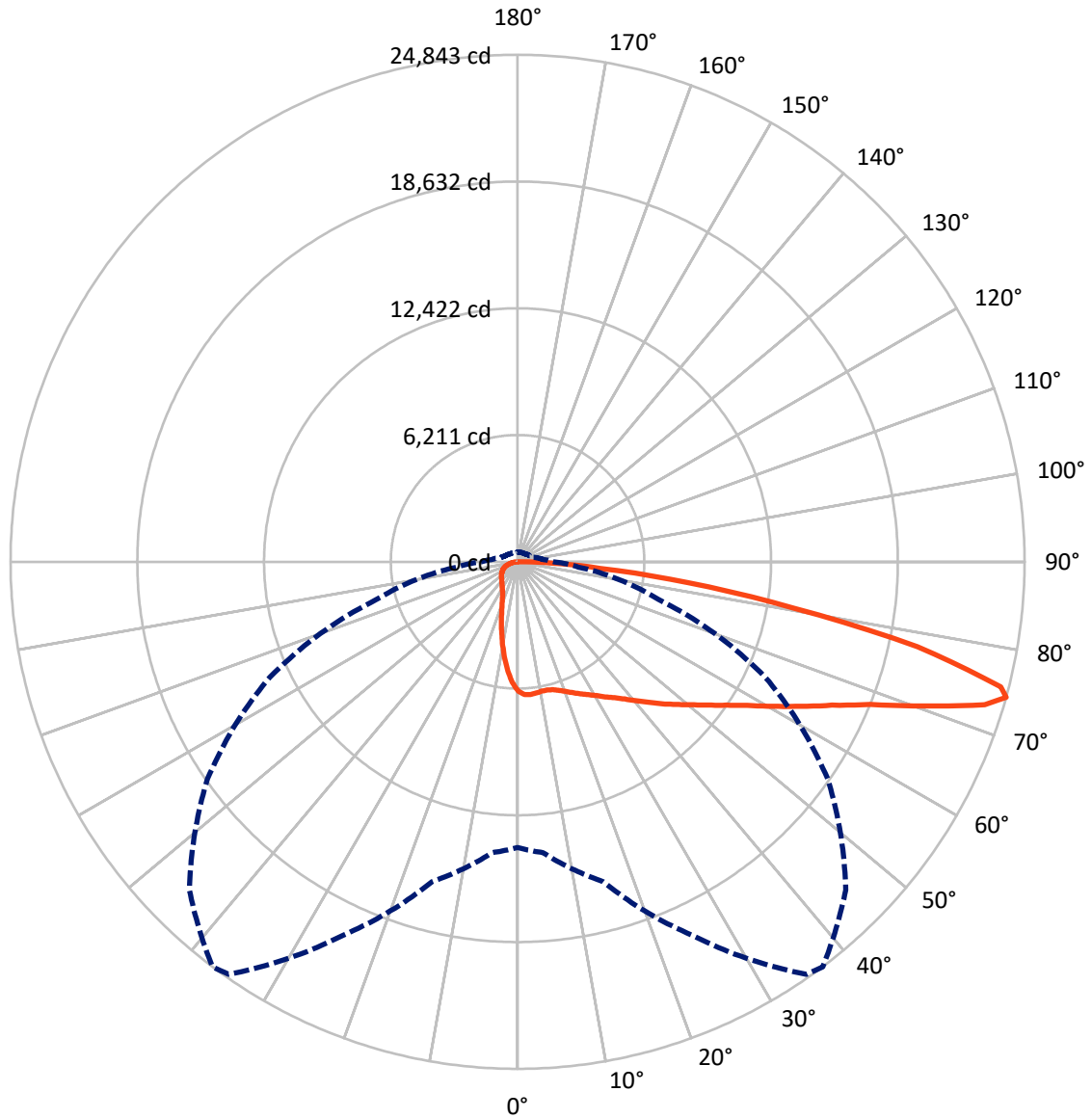
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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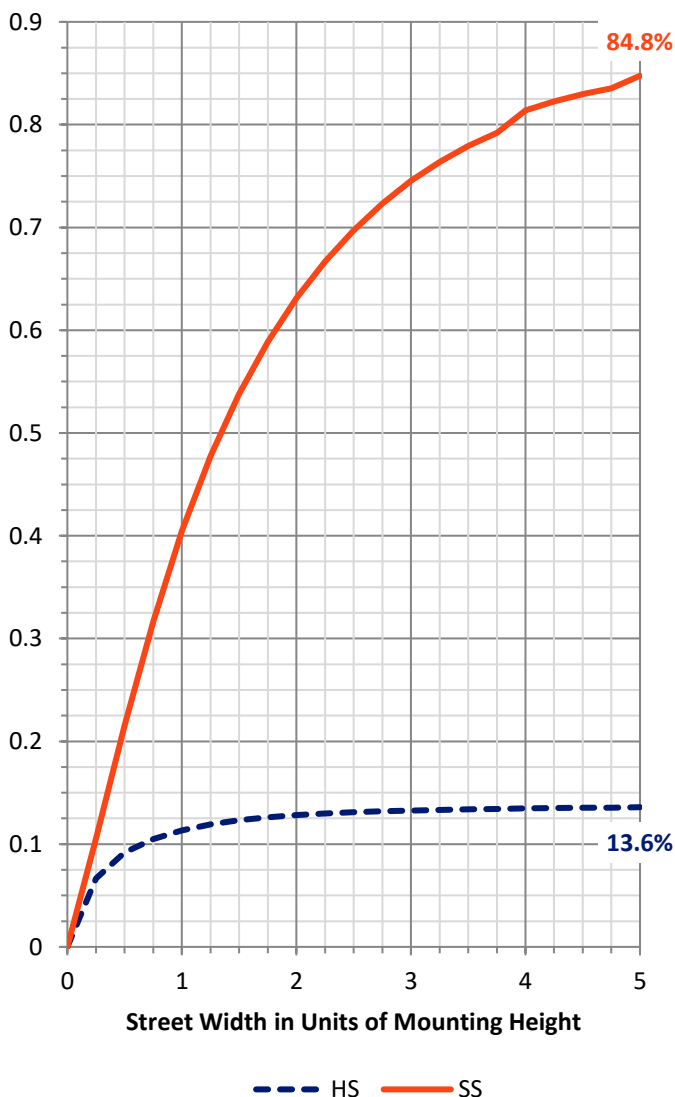
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4960.6	0.0	4960.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	31092.4	0.0	31092.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	36053.0	0.0	36053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.4	1.6
10°-20°	1433.9	4.0
20°-30°	2209.3	6.1
30°-40°	3212.7	8.9
40°-50°	4728.6	13.1
50°-60°	6640.4	18.4
60°-70°	8404.7	23.3
70°-80°	7400.7	20.5
80°-90°	1463.3	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°	36053.0	100.0
0°-180°	36053.0	100.0

Coefficient of Utilization

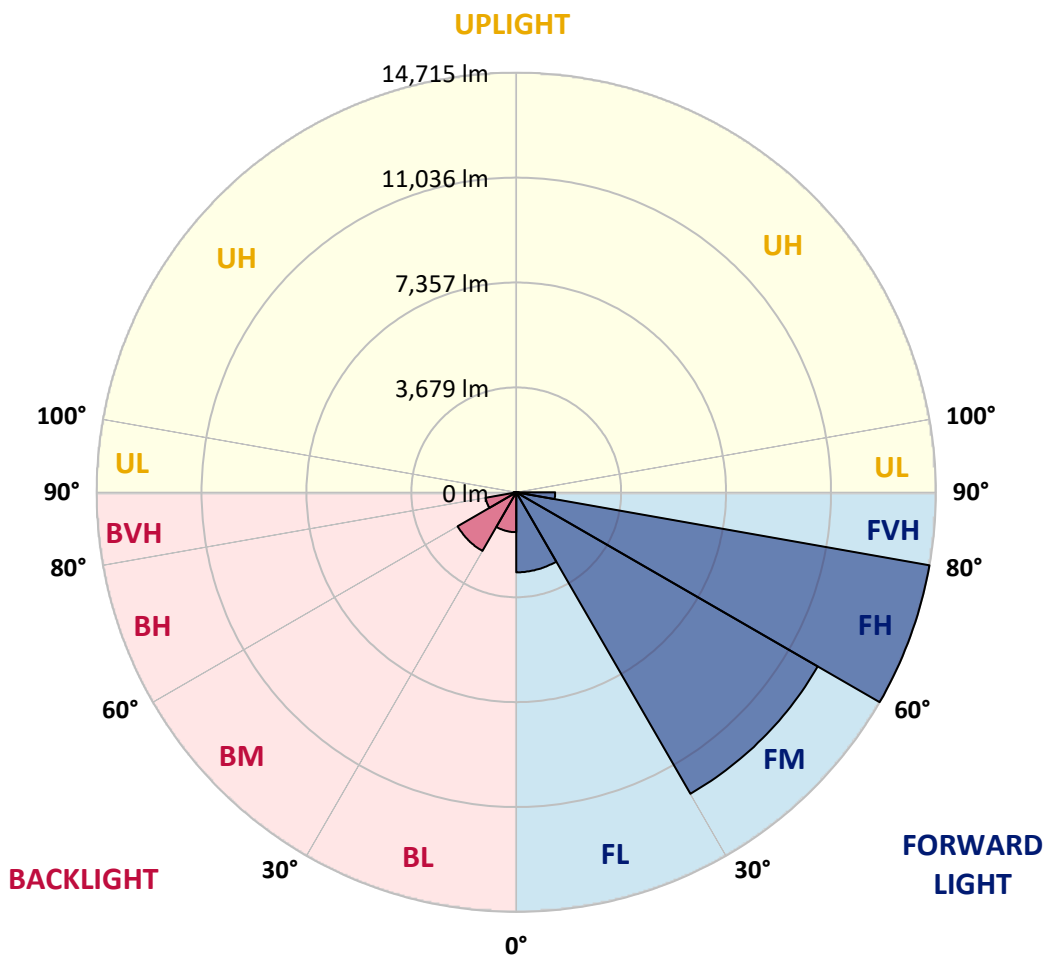


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2805.3	7.8			
FM (30°-60°)	12207.8	33.9			
FH (60°-80°)	14715.0	40.8			G5
FVH (80°-90°)	1364.2	3.8			G5
BL (0°-30°)	1397.3	3.9	B3/2500		
BM (30°-60°)	2373.9	6.6	B2/2500		
BH (60°-80°)	1090.4	3.0	B3/2500		G3/2500
BVH (80°-90°)	99.1	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°	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4
2.5°	6569.6	6570.8	6569.6	6559.4	6535.3	6515.0	6498.4	6474.3	6421.0	6380.3	6319.4
5°	6631.8	6624.2	6619.1	6600.0	6561.9	6539.1	6507.3	6461.6	6374.0	6292.7	6193.7
7.5°	6602.6	6593.7	6582.3	6559.4	6516.2	6497.2	6452.7	6393.0	6287.6	6181.0	6038.7
10°	6512.4	6509.9	6504.8	6499.7	6462.9	6447.6	6407.0	6343.5	6239.4	6109.8	5943.5
12.5°	6412.1	6418.4	6438.8	6465.4	6448.9	6441.3	6415.9	6372.7	6266.0	6126.3	5925.7
15°	6348.6	6366.4	6421.0	6490.8	6504.8	6502.3	6495.9	6468.0	6354.9	6200.0	5966.3
17.5°	6327.0	6356.2	6460.3	6575.9	6616.6	6625.4	6628.0	6579.7	6454.0	6290.2	6008.2
20°	6366.4	6403.2	6555.6	6714.3	6779.1	6784.2	6772.8	6688.9	6548.0	6367.6	6031.1
22.5°	6485.7	6518.8	6709.3	6888.3	6962.0	6969.6	6935.3	6808.3	6647.0	6459.1	6062.8
25°	6715.6	6756.2	6946.7	7125.8	7163.9	7165.2	7115.7	6958.2	6776.6	6587.3	6131.4
27.5°	7015.3	7056.0	7227.4	7402.7	7382.3	7370.9	7303.6	7146.1	6945.5	6763.9	6253.3
30°	7349.3	7393.8	7556.3	7680.8	7632.5	7609.7	7555.1	7351.9	7180.4	7005.2	6440.0
32.5°	7694.8	7735.4	7877.6	7962.7	7901.8	7891.6	7809.1	7623.6	7486.5	7373.5	6742.3
35°	8049.1	8078.3	8218.0	8266.2	8185.0	8182.4	8159.6	7989.4	7903.0	7956.4	7181.7
37.5°	8411.0	8418.6	8538.0	8540.6	8516.4	8526.6	8550.7	8444.0	8468.2	8634.5	7753.2
40°	8733.6	8753.9	8840.3	8866.9	8908.9	8944.4	9065.1	8995.2	9181.9	9476.5	8464.4
42.5°	8972.4	9011.7	9150.1	9218.7	9354.6	9410.5	9580.7	9645.4	10021.3	10463.3	9310.2
45°	9174.3	9235.2	9457.5	9598.4	9828.3	9926.1	10169.9	10387.1	10970.0	11533.9	10200.4
47.5°	9392.7	9470.2	9748.3	10017.5	10330.0	10440.4	10883.7	11208.8	11982.2	12610.8	11039.9
50°	9714.0	9773.7	10045.5	10468.4	10858.3	11000.5	11613.9	12080.0	13010.9	13637.0	11767.6
52.5°	10162.3	10139.5	10369.3	10962.4	11485.6	11660.9	12393.7	13007.1	14053.5	14565.3	12382.2
55°	10613.2	10575.1	10736.3	11479.3	12217.1	12401.3	13252.2	13937.9	15045.4	15400.9	12853.4
57.5°	11114.8	11042.4	11178.3	12062.2	13050.2	13269.9	14213.5	14927.2	16020.7	16076.6	13153.1
60°	11631.7	11533.9	11686.3	12784.8	14108.1	14367.2	15338.7	15892.4	16940.2	16617.6	13249.6
62.5°	12083.8	12015.2	12250.1	13591.2	15300.6	15585.1	16443.6	16918.6	17846.9	16842.4	12901.6
65°	12478.7	12490.2	12896.6	14498.0	16630.3	16933.8	17711.0	18183.5	18560.6	16709.0	12087.6
67.5°	12949.9	13014.7	13708.1	15691.8	18304.1	18636.8	19555.0	19562.6	18959.4	15926.7	10484.9
70°	13637.0	13770.3	14824.4	17347.8	20684.0	21141.2	21849.9	20372.9	18399.4	13805.9	8249.7
72.5°	14246.5	14495.5	16011.8	19242.6	23584.6	23931.3	23192.2	19905.5	16058.8	10346.5	5139.6
74°	13998.9	14307.5	16227.7	20176.0	24676.8	24843.2	22738.8	18541.6	13389.3	7165.2	2987.0
75°	13465.5	13800.8	15912.7	20167.2	24538.4	24445.7	21644.1	16983.3	11027.2	4886.9	1987.5
77.5°	10867.1	11221.5	13408.4	17284.3	20120.2	20032.5	16626.5	11392.9	4829.7	1602.7	1009.6
80°	6318.1	6588.6	8323.4	10976.4	13567.1	13725.9	10934.5	5637.4	1899.9	900.4	684.5
82.5°	2806.6	2993.3	4020.7	5603.1	8187.5	8392.0	5726.3	2954.0	1173.5	547.4	411.5
85°	1841.5	1979.9	2440.9	2668.2	3898.8	4038.5	2802.8	2299.9	774.7	301.0	302.3
87.5°	1324.6	1457.9	1813.5	1583.7	1789.4	1694.1	1525.2	2128.5	311.1	171.4	101.6
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°	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4
2.5°	6292.7	6272.4	6226.7	6140.3	6092.1	6051.4	5984.1	5944.7	5927.0	5925.7	5933.3
5°	6136.5	6089.5	5971.4	5826.6	5711.1	5605.7	5474.8	5396.1	5340.2	5307.2	5316.1
7.5°	5954.9	5881.2	5695.8	5464.7	5279.3	5074.8	4872.9	4752.2	4658.3	4588.4	4601.1
10°	5830.4	5728.8	5458.3	5125.6	4817.0	4519.8	4241.7	4075.3	3943.3	3841.7	3849.3
12.5°	5788.5	5651.4	5276.7	4832.2	4399.2	3992.8	3629.6	3374.3	3238.4	3122.9	3131.8
15°	5794.9	5610.7	5124.3	4568.1	4023.3	3511.5	3070.8	2772.3	2588.2	2508.2	2509.5
17.5°	5800.0	5563.7	4964.3	4284.9	3651.2	3061.9	2583.1	2280.9	2106.9	2033.2	2034.5
20°	5783.5	5487.5	4766.2	3959.8	3262.6	2649.2	2185.6	1929.1	1797.0	1739.9	1739.9
22.5°	5761.9	5397.4	4542.7	3633.4	2879.0	2291.0	1901.1	1705.6	1629.4	1591.3	1590.0
25°	5772.0	5330.1	4314.1	3298.1	2526.0	2005.3	1711.9	1582.4	1531.6	1507.5	1506.2
27.5°	5826.6	5298.3	4103.3	2964.1	2217.4	1790.7	1584.9	1493.5	1460.5	1445.2	1445.2
30°	5925.7	5298.3	3883.6	2679.6	1960.8	1631.9	1487.1	1424.9	1402.0	1391.9	1391.9
32.5°	6098.4	5327.5	3671.5	2397.7	1756.4	1507.5	1405.9	1363.9	1346.2	1341.1	1341.1
35°	6395.6	5426.6	3464.5	2131.0	1591.3	1405.9	1328.4	1304.3	1291.6	1290.3	1294.1
37.5°	6813.4	5628.5	3270.2	1934.2	1474.4	1323.3	1263.6	1244.6	1237.0	1243.3	1248.4
40°	7339.2	5902.8	3093.7	1756.4	1385.5	1257.3	1203.9	1191.2	1187.4	1196.3	1203.9
42.5°	7974.2	6273.7	2948.9	1628.1	1317.0	1201.4	1153.1	1137.9	1134.1	1144.2	1154.4
45°	8661.2	6672.4	2847.3	1532.9	1263.6	1159.5	1108.7	1092.2	1084.6	1089.6	1101.1
47.5°	9286.0	7049.6	2806.6	1465.5	1212.8	1123.9	1069.3	1049.0	1036.3	1033.8	1042.6
50°	9813.1	7330.3	2825.7	1424.9	1172.2	1084.6	1031.2	1008.4	989.3	977.9	984.2
52.5°	10196.6	7506.8	2843.5	1407.1	1140.4	1041.4	989.3	967.7	942.3	923.3	923.3
55°	10474.7	7547.4	2804.1	1393.2	1116.3	994.4	942.3	922.0	896.6	875.0	872.5
57.5°	10583.9	7433.1	2658.1	1372.8	1099.8	949.9	892.8	877.6	856.0	830.6	829.3
60°	10436.6	7080.1	2376.1	1329.7	1078.2	913.1	843.3	833.1	822.9	798.8	797.5
62.5°	9844.8	6305.4	2011.6	1242.0	1035.0	873.7	797.5	802.6	803.9	787.4	784.8
65°	8771.7	5241.2	1656.0	1127.7	970.3	826.8	750.6	774.7	788.7	786.1	782.3
67.5°	7212.2	4079.1	1403.3	1007.1	885.2	762.0	699.8	727.7	739.1	748.0	745.5
70°	5352.9	2876.5	1160.8	880.1	782.3	685.8	633.7	647.7	640.1	650.2	654.0
72.5°	2984.4	1725.9	946.1	753.1	675.6	596.9	560.1	557.5	541.0	541.0	541.0
74°	1790.7	1266.2	831.8	674.4	610.9	538.5	506.7	495.3	480.0	481.3	480.0
75°	1440.1	1088.4	763.3	622.3	565.1	504.2	472.4	457.2	445.8	445.8	444.5
77.5°	909.3	826.8	614.7	495.3	452.1	415.3	393.7	373.4	373.4	372.1	370.8
80°	687.1	657.8	478.8	374.6	346.7	318.8	304.8	295.9	295.9	299.7	298.4
82.5°	471.2	495.3	336.5	261.6	247.6	227.3	224.8	226.1	222.2	217.2	215.9
85°	344.2	372.1	227.3	165.1	151.1	138.4	148.6	153.7	147.3	135.9	130.8
87.5°	132.1	243.8	121.9	68.6	63.5	54.6	63.5	66.0	71.1	55.9	57.1
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)