

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: P319971

Luminaire Tested: **GAN-SA7C-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319971
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-SA7C-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 43292 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

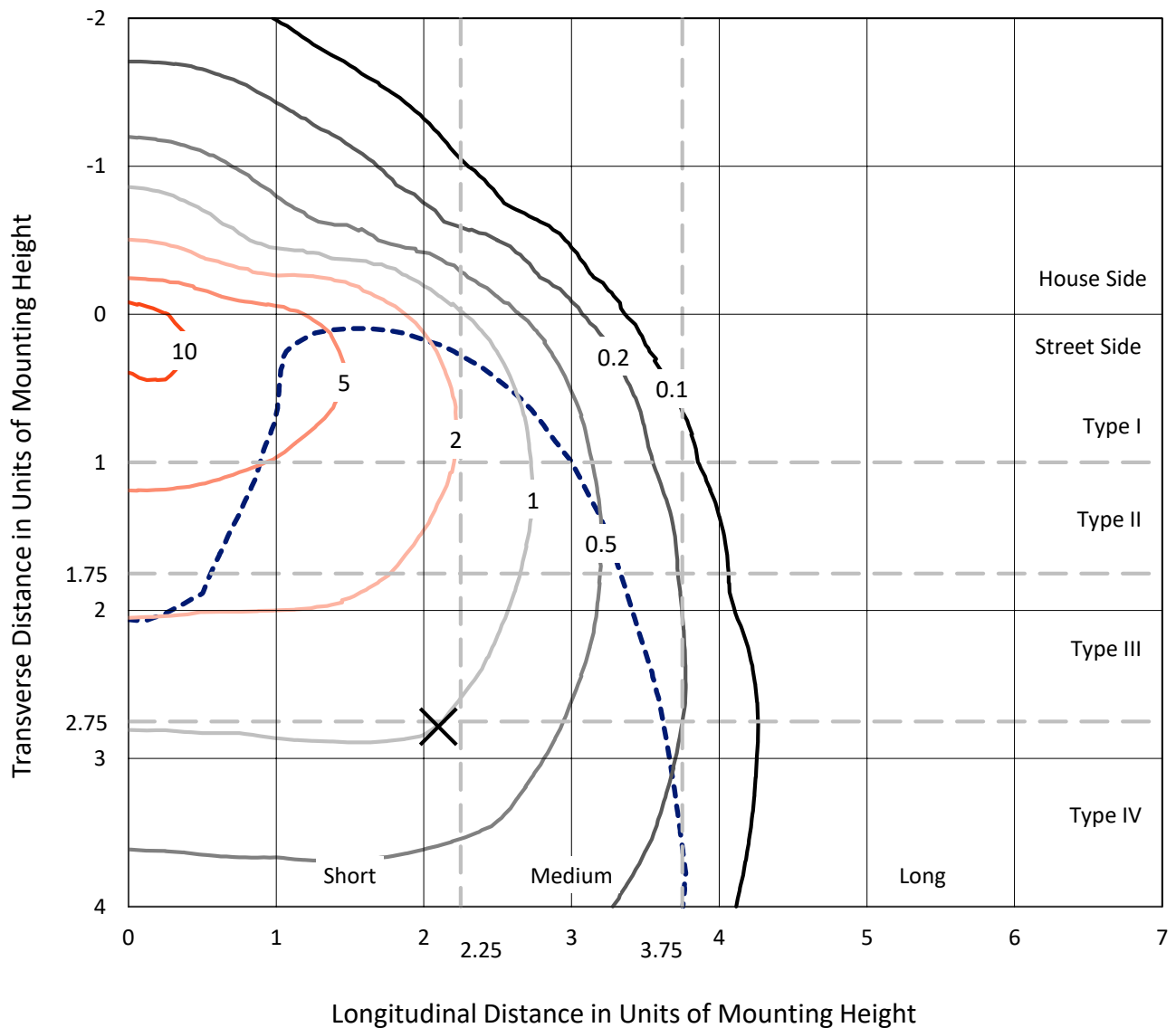
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

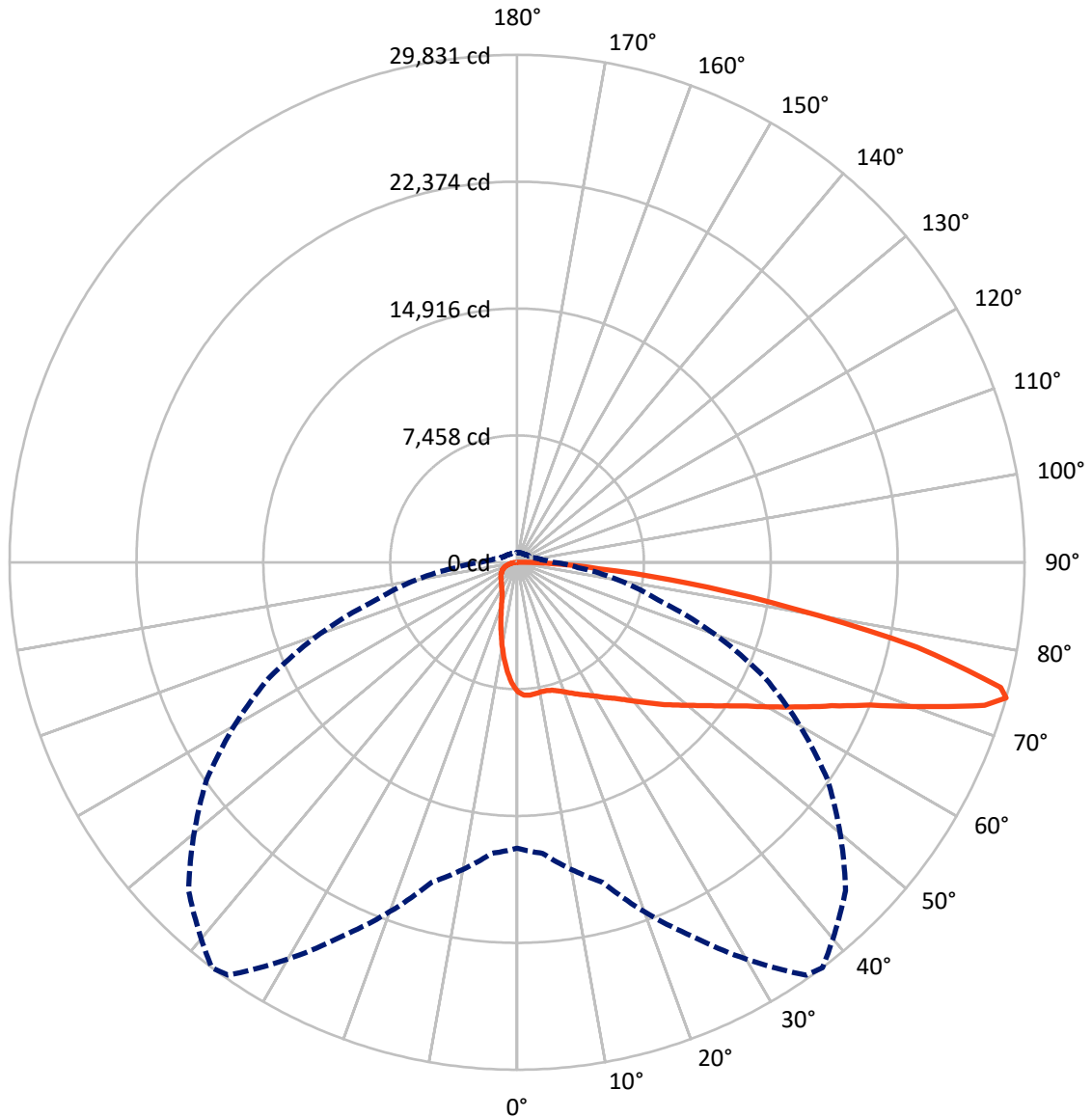
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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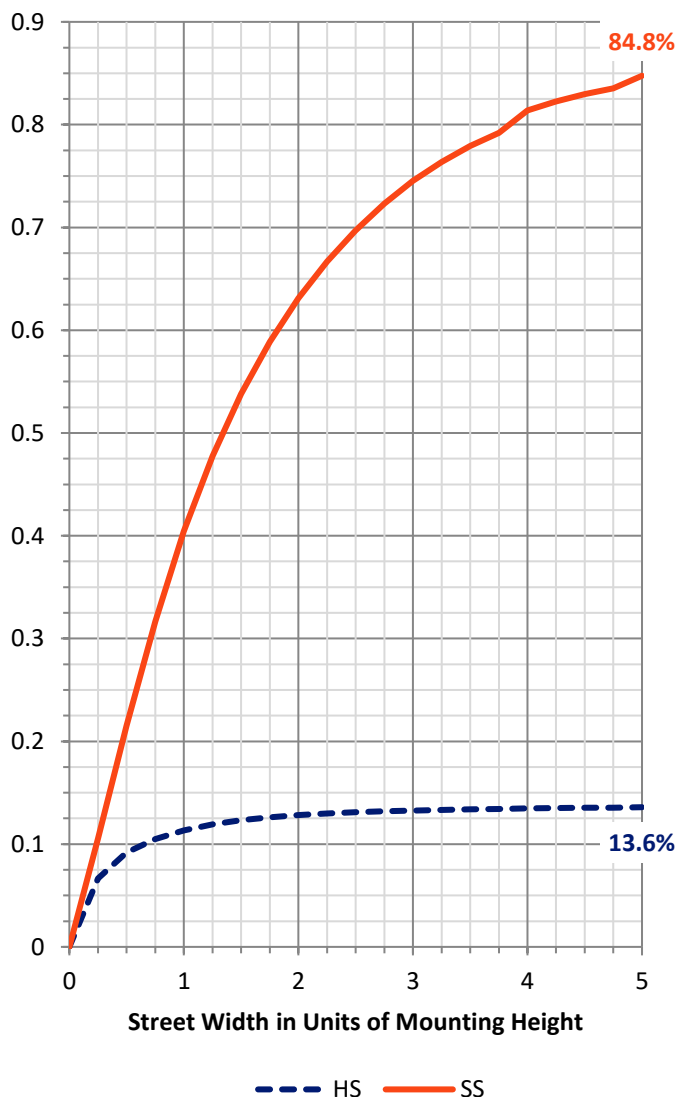
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5956.7	0.0	5956.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	37335.3	0.0	37335.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	43292.0	0.0	43292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.7	1.6
10°-20°	1721.8	4.0
20°-30°	2653.0	6.1
30°-40°	3857.8	8.9
40°-50°	5678.0	13.1
50°-60°	7973.7	18.4
60°-70°	10092.3	23.3
70°-80°	8886.6	20.5
80°-90°	1757.1	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°	43292.0	100.0
0°-180°	43292.0	100.0

Coefficient of Utilization

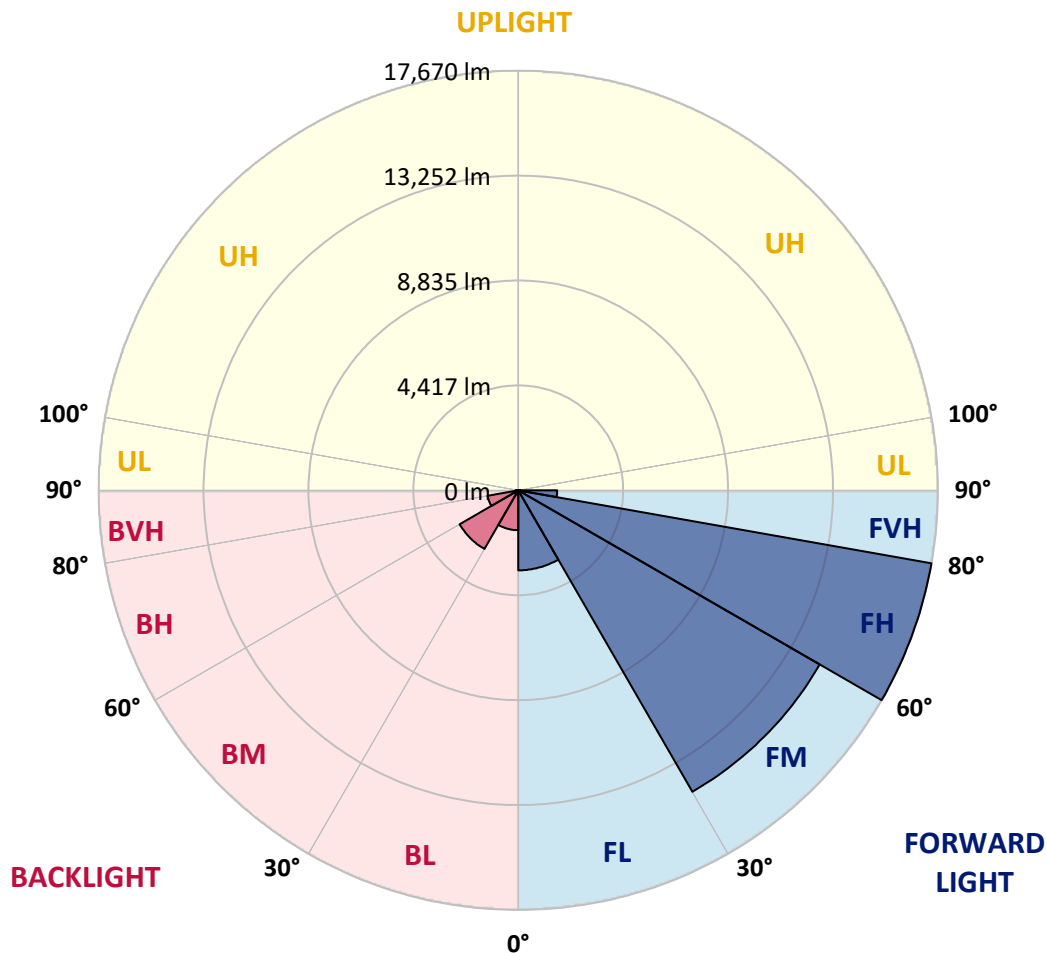


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3368.6	7.8			
FM (30°-60°)	14659.0	33.9			
FH (60°-80°)	17669.6	40.8			G5
FVH (80°-90°)	1638.1	3.8			G5
BL (0°-30°)	1677.9	3.9	B3/2500		
BM (30°-60°)	2850.5	6.6	B3/5000		
BH (60°-80°)	1309.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	119.0	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°	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9
2.5°	7888.7	7890.2	7888.7	7876.5	7847.5	7823.1	7803.3	7774.3	7710.2	7661.4	7588.2
5°	7963.4	7954.2	7948.1	7925.3	7879.5	7852.1	7813.9	7759.0	7653.8	7556.2	7437.3
7.5°	7928.3	7917.6	7903.9	7876.5	7824.6	7801.7	7748.4	7676.7	7550.1	7422.0	7251.2
10°	7820.0	7817.0	7810.9	7804.8	7760.6	7742.3	7693.5	7617.2	7492.2	7336.6	7136.8
12.5°	7699.6	7707.2	7731.6	7763.6	7743.8	7734.6	7704.1	7652.3	7524.2	7356.4	7115.5
15°	7623.3	7644.7	7710.2	7794.1	7810.9	7807.8	7800.2	7766.7	7630.9	7444.9	7164.3
17.5°	7597.4	7632.5	7757.5	7896.3	7945.1	7955.8	7958.8	7900.9	7749.9	7553.2	7214.6
20°	7644.7	7688.9	7871.9	8062.5	8140.3	8146.4	8132.6	8032.0	7862.7	7646.2	7242.1
22.5°	7788.0	7827.7	8056.4	8271.4	8359.9	8369.0	8327.8	8175.3	7981.7	7756.0	7280.2
25°	8064.0	8112.8	8341.6	8556.6	8602.3	8603.9	8544.4	8355.3	8137.2	7910.0	7362.5
27.5°	8423.9	8472.7	8678.6	8889.0	8864.6	8850.9	8770.1	8581.0	8340.0	8122.0	7508.9
30°	8825.0	8878.4	9073.6	9223.0	9165.0	9137.6	9072.0	8828.0	8622.2	8411.7	7733.1
32.5°	9239.8	9288.6	9459.4	9561.5	9488.3	9476.1	9377.0	9154.4	8989.7	8854.0	8096.0
35°	9665.2	9700.3	9868.1	9926.0	9828.4	9825.4	9797.9	9593.6	9489.9	9553.9	8623.7
37.5°	10099.9	10109.0	10252.4	10255.4	10226.4	10238.6	10267.6	10139.5	10168.5	10368.2	9309.9
40°	10487.2	10511.6	10615.3	10647.3	10697.6	10740.3	10885.2	10801.3	11025.5	11379.3	10163.9
42.5°	10773.9	10821.2	10987.4	11069.7	11232.9	11300.0	11504.3	11582.1	12033.5	12564.2	11179.5
45°	11016.4	11089.6	11356.4	11525.7	11801.7	11919.1	12211.9	12472.7	13172.7	13849.7	12248.5
47.5°	11278.7	11371.7	11705.6	12028.9	12404.1	12536.7	13069.0	13459.4	14388.1	15142.9	13256.5
50°	11664.5	11736.1	12062.5	12570.3	13038.5	13209.3	13945.8	14505.5	15623.3	16375.1	14130.3
52.5°	12202.8	12175.3	12451.4	13163.5	13791.8	14002.2	14882.1	15618.7	16875.3	17489.8	14868.4
55°	12744.1	12698.4	12892.1	13784.2	14670.2	14891.3	15913.0	16736.5	18066.3	18493.3	15434.2
57.5°	13346.5	13259.6	13422.8	14484.1	15670.6	15934.4	17067.4	17924.5	19237.5	19304.6	15794.1
60°	13967.2	13849.7	14032.7	15351.8	16940.9	17251.9	18418.5	19083.4	20341.5	19954.2	15910.0
62.5°	14510.1	14427.7	14709.8	16320.2	18372.8	18714.4	19745.3	20315.6	21430.4	20224.1	15492.1
65°	14984.3	14998.0	15486.0	17409.0	19969.4	20333.9	21267.2	21834.5	22287.4	20064.0	14514.6
67.5°	15550.1	15627.9	16460.5	18842.5	21979.3	22378.9	23481.4	23490.6	22766.2	19124.6	12590.1
70°	16375.1	16535.2	17800.9	20831.0	24837.1	25386.1	26237.0	24463.5	22093.7	16577.9	9906.2
72.5°	17107.1	17406.0	19226.8	23106.3	28320.2	28736.5	27848.9	23902.3	19283.2	12423.9	6171.5
74°	16809.7	17180.3	19486.0	24227.1	29631.6	29831.4	27304.5	22264.5	16077.7	8603.9	3586.7
75°	16169.2	16571.8	19107.8	24216.5	29465.4	29354.1	25990.0	20393.4	13241.3	5868.1	2386.6
77.5°	13049.1	13474.6	16100.6	20754.8	24160.0	24054.8	19964.9	13680.5	5799.4	1924.5	1212.3
80°	7586.7	7911.5	9994.6	13180.3	16291.2	16481.8	13130.0	6769.3	2281.3	1081.2	822.0
82.5°	3370.2	3594.3	4828.0	6728.2	9831.5	10077.0	6876.1	3547.1	1409.1	657.3	494.1
85°	2211.2	2377.4	2931.0	3204.0	4681.6	4849.4	3365.6	2761.7	930.2	361.4	362.9
87.5°	1590.5	1750.7	2177.7	1901.6	2148.7	2034.3	1831.5	2555.8	373.6	205.9	122.0
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°	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9
2.5°	7556.2	7531.8	7476.9	7373.2	7315.3	7266.5	7185.6	7138.4	7117.0	7115.5	7124.6
5°	7368.6	7312.2	7170.4	6996.5	6857.8	6731.2	6574.1	6479.6	6412.5	6372.8	6383.5
7.5°	7150.6	7062.1	6839.5	6561.9	6339.3	6093.8	5851.3	5706.4	5593.6	5509.7	5525.0
10°	7001.1	6879.1	6554.3	6154.8	5784.2	5427.4	5093.4	4893.6	4735.0	4613.0	4622.2
12.5°	6950.8	6786.1	6336.2	5802.5	5282.5	4794.5	4358.4	4051.8	3888.7	3749.9	3760.6
15°	6958.4	6737.3	6153.2	5485.3	4831.1	4216.5	3687.4	3329.0	3107.9	3011.8	3013.3
17.5°	6964.5	6680.9	5961.1	5145.2	4384.3	3676.7	3101.8	2738.8	2529.9	2441.5	2443.0
20°	6944.7	6589.4	5723.2	4754.8	3917.6	3181.1	2624.5	2316.4	2157.8	2089.2	2089.2
22.5°	6918.8	6481.1	5454.8	4362.9	3457.1	2751.0	2282.9	2048.0	1956.5	1910.8	1909.3
25°	6931.0	6400.3	5180.3	3960.3	3033.2	2407.9	2055.7	1900.1	1839.1	1810.1	1808.6
27.5°	6996.5	6362.2	4927.2	3559.3	2662.6	2150.2	1903.2	1793.4	1753.7	1735.4	1735.4
30°	7115.5	6362.2	4663.3	3217.7	2354.5	1959.6	1785.7	1711.0	1683.6	1671.4	1671.4
32.5°	7322.9	6397.2	4408.7	2879.1	2109.0	1810.1	1688.1	1637.8	1616.5	1610.4	1610.4
35°	7679.7	6516.2	4160.1	2558.9	1910.8	1688.1	1595.1	1566.1	1550.9	1549.4	1553.9
37.5°	8181.4	6758.7	3926.8	2322.5	1770.5	1589.0	1517.3	1494.5	1485.3	1492.9	1499.0
40°	8812.8	7088.0	3714.8	2109.0	1663.7	1509.7	1445.7	1430.4	1425.8	1436.5	1445.7
42.5°	9575.3	7533.3	3541.0	1955.0	1581.4	1442.6	1384.7	1366.4	1361.8	1374.0	1386.2
45°	10400.3	8012.2	3419.0	1840.6	1517.3	1392.3	1331.3	1311.5	1302.3	1308.4	1322.1
47.5°	11150.6	8465.1	3370.2	1759.8	1456.3	1349.6	1284.0	1259.6	1244.4	1241.3	1252.0
50°	11783.4	8802.1	3393.1	1711.0	1407.5	1302.3	1238.3	1210.8	1187.9	1174.2	1181.8
52.5°	12244.0	9014.1	3414.4	1689.7	1369.4	1250.5	1187.9	1162.0	1131.5	1108.7	1108.7
55°	12577.9	9062.9	3367.1	1672.9	1340.4	1194.0	1131.5	1107.1	1076.6	1050.7	1047.7
57.5°	12709.1	8925.6	3191.8	1648.5	1320.6	1140.7	1072.1	1053.8	1027.8	997.3	995.8
60°	12532.2	8501.7	2853.2	1596.6	1294.7	1096.5	1012.6	1000.4	988.2	959.2	957.7
62.5°	11821.5	7571.5	2415.5	1491.4	1242.8	1049.2	957.7	963.8	965.3	945.5	942.4
65°	10532.9	6293.5	1988.6	1354.2	1165.1	992.8	901.3	930.2	947.0	944.0	939.4
67.5°	8660.3	4898.2	1685.1	1209.3	1062.9	915.0	840.3	873.8	887.5	898.2	895.2
70°	6427.7	3454.0	1393.8	1056.8	939.4	823.5	761.0	777.7	768.6	780.8	785.4
72.5°	3583.7	2072.4	1136.1	904.3	811.3	716.7	672.5	669.5	649.6	649.6	649.6
74°	2150.2	1520.4	998.9	809.8	733.5	646.6	608.5	594.7	576.4	578.0	576.4
75°	1729.3	1306.9	916.5	747.2	678.6	605.4	567.3	549.0	535.3	535.3	533.7
77.5°	1091.9	992.8	738.1	594.7	542.9	498.7	472.7	448.3	448.3	446.8	445.3
80°	825.0	789.9	574.9	449.9	416.3	382.8	366.0	355.3	355.3	359.9	358.4
82.5°	565.8	594.7	404.1	314.1	297.4	273.0	269.9	271.4	266.9	260.8	259.2
85°	413.3	446.8	273.0	198.2	181.5	166.2	178.4	184.5	176.9	163.2	157.1
87.5°	158.6	292.8	146.4	82.3	76.2	65.6	76.2	79.3	85.4	67.1	68.6
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)