

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: P321587

Luminaire Tested: **GAN-SA3A-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10942 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

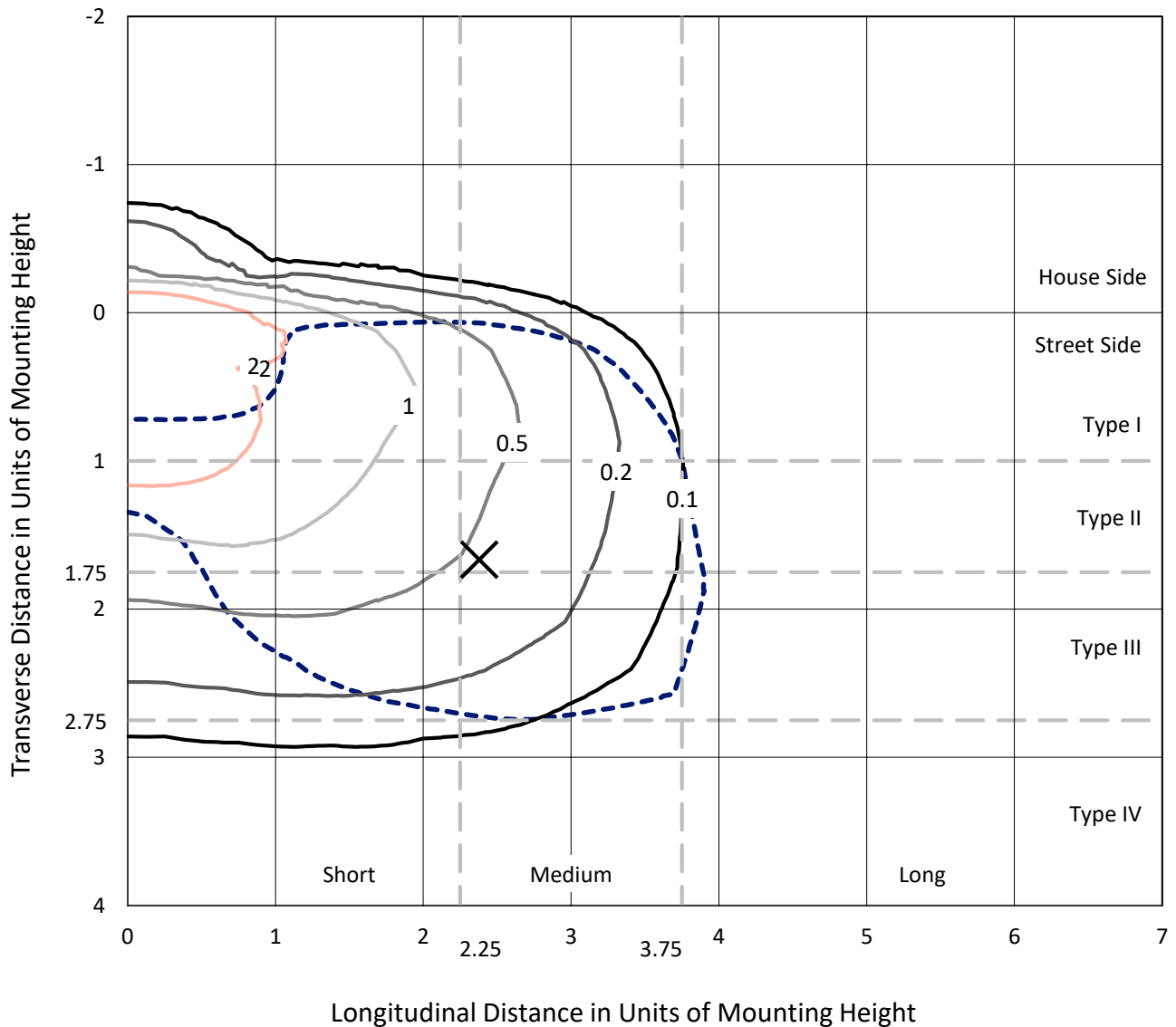
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321587
 CATALOG NUMBER: GAN-SA3A-740-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

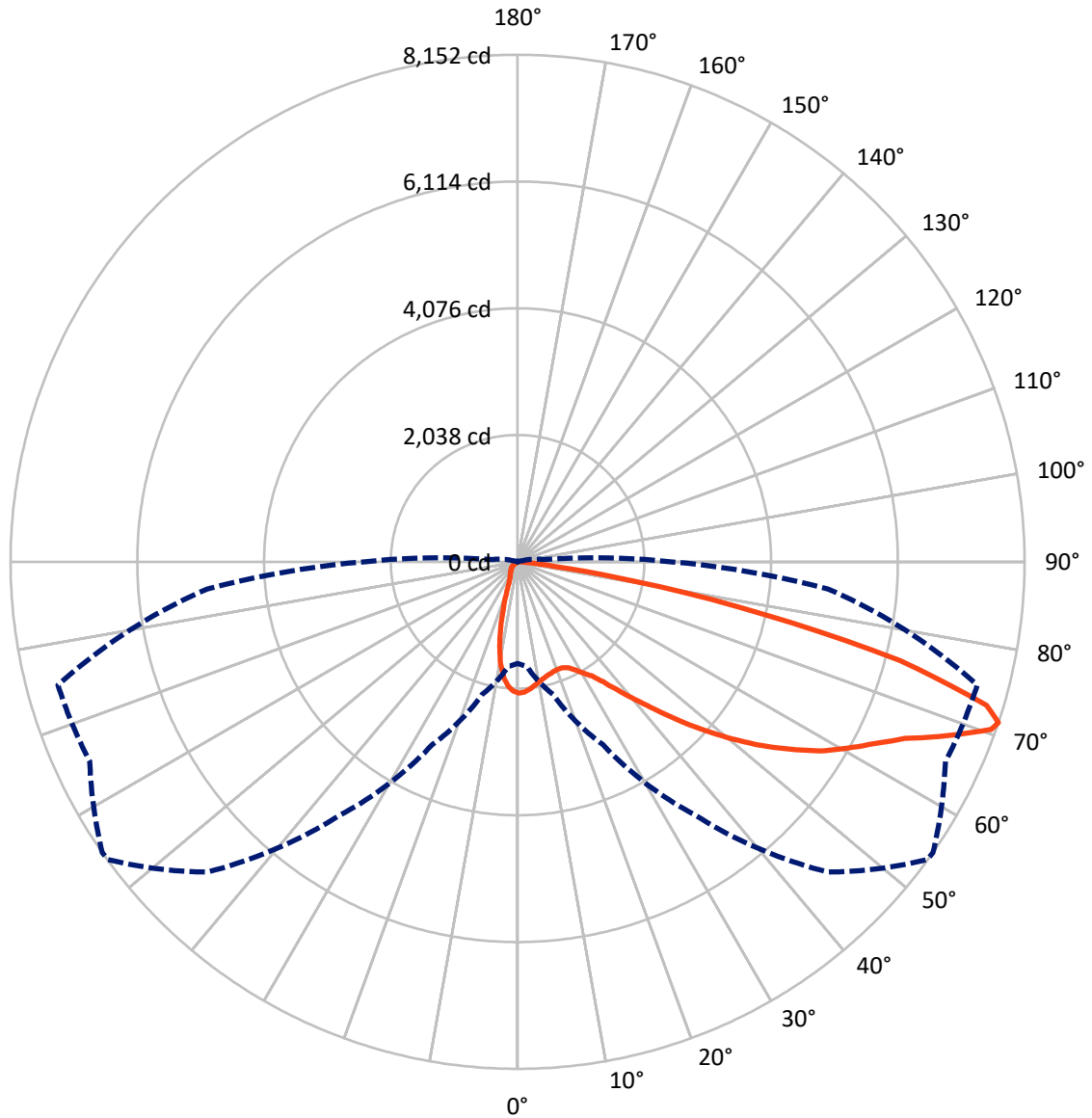
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P321587
CATALOG NUMBER: GAN-SA3A-740-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P321587
 CATALOG NUMBER: GAN-SA3A-740-U-T3R-HSS

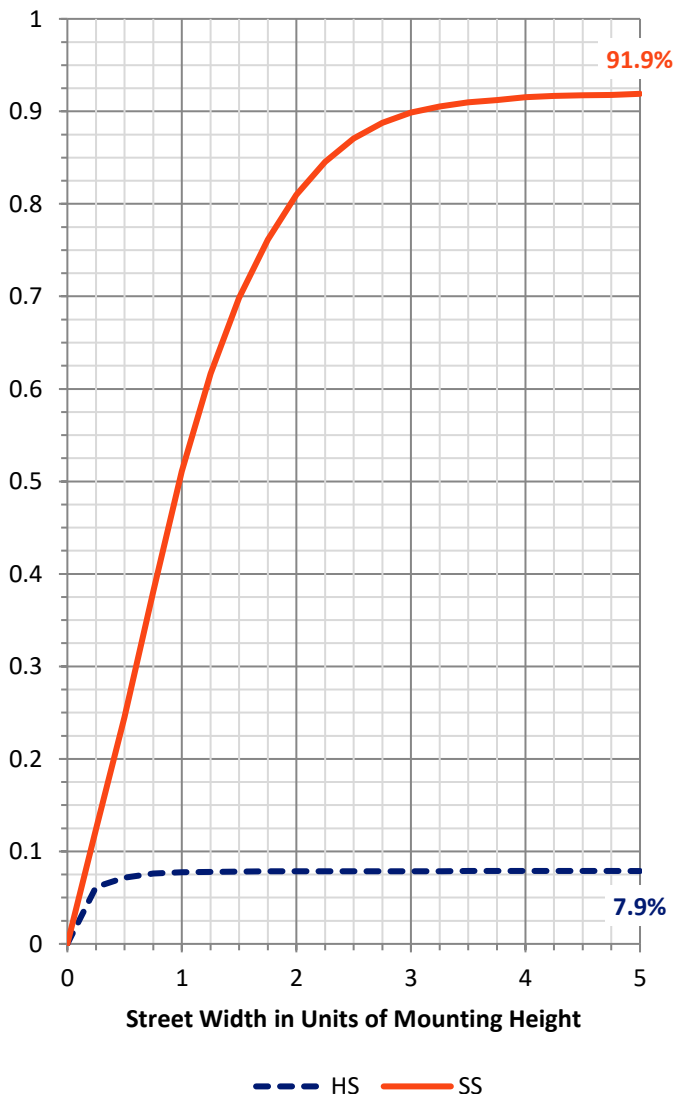
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	866.3	0.0	866.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	10075.7	0.0	10075.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	10942.0	0.0	10942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	1.6
10°-20°	406.2	3.7
20°-30°	652.8	6.0
30°-40°	1109.1	10.1
40°-50°	1721.4	15.7
50°-60°	2314.4	21.2
60°-70°	2831.3	25.9
70°-80°	1655.4	15.1
80°-90°	71.6	0.7
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°	10942.0	100.0
0°-180°	10942.0	100.0

Coefficient of Utilization

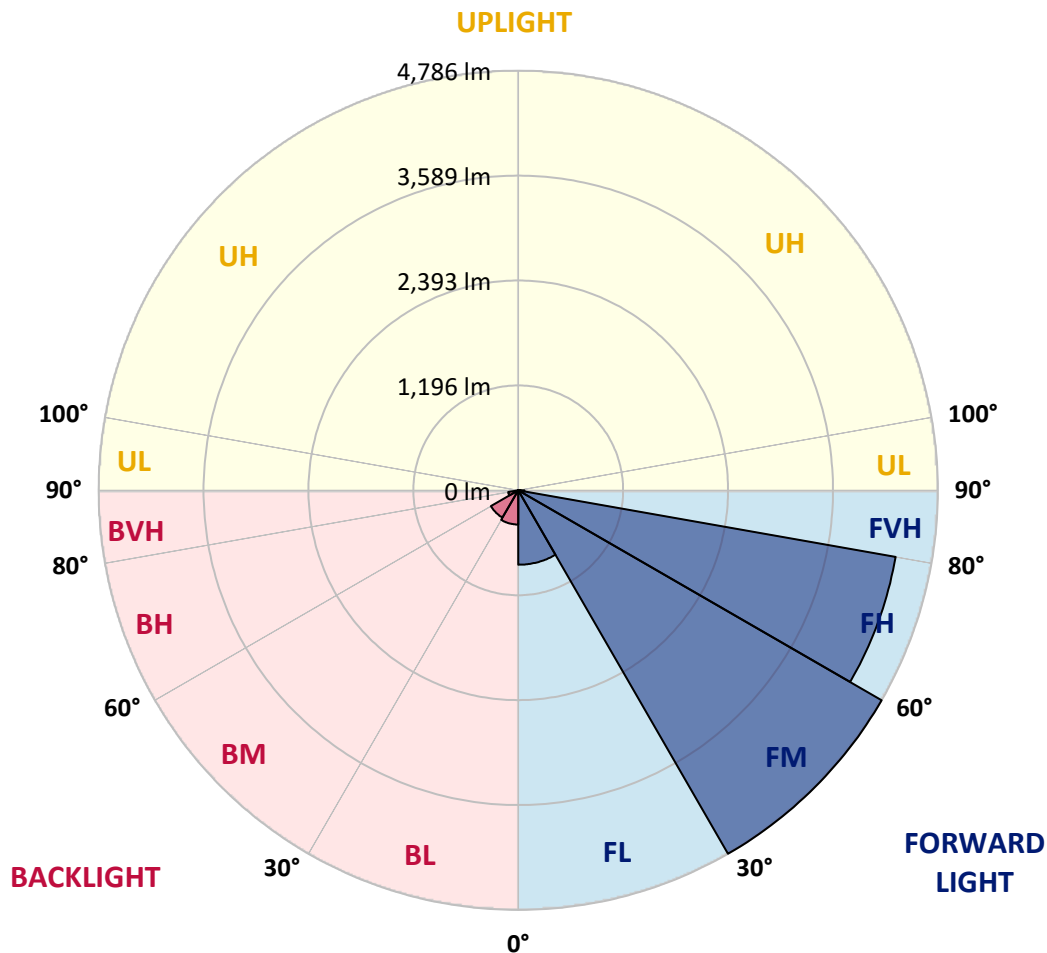


REPORT NUMBER: P321587
 CATALOG NUMBER: GAN-SA3A-740-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	848.9	7.8			
FM (30°-60°)	4785.7	43.7			
FH (60°-80°)	4370.6	39.9			G2/5000
FVH (80°-90°)	70.4	0.6			G1/100
BL (0°-30°)	389.9	3.6	B1/500		
BM (30°-60°)	359.2	3.3	B1/1000		
BH (60°-80°)	116.1	1.1	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





REPORT NUMBER: P321587

CATALOG NUMBER: GAN-SA3A-740-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2110.2	2110.2	2110.2	2110.2	2110.2	2110.2	2110.2	2110.2	2110.2	2110.2	2110.2
2.5°	2048.3	2050.8	2059.6	2063.5	2072.9	2088.6	2096.4	2096.9	2109.7	2114.6	2118.6
5°	1903.4	1918.1	1932.8	1948.6	1977.1	2014.9	2052.2	2055.7	2096.9	2127.4	2143.6
7.5°	1778.6	1791.8	1809.5	1834.6	1874.9	1934.3	1996.7	2004.1	2082.2	2151.5	2187.8
10°	1650.3	1661.1	1686.7	1723.5	1779.1	1858.6	1942.7	1954.9	2068.9	2183.9	2247.8
12.5°	1513.3	1519.6	1550.6	1603.7	1685.2	1786.4	1897.0	1913.2	2060.6	2221.2	2318.5
15°	1409.1	1412.0	1441.5	1496.5	1589.9	1721.6	1861.6	1881.3	2062.5	2266.0	2395.7
17.5°	1382.6	1384.0	1399.8	1437.6	1520.1	1663.6	1833.6	1857.7	2068.4	2309.7	2473.3
20°	1490.2	1479.8	1463.6	1457.7	1493.1	1628.7	1816.9	1843.9	2076.3	2348.5	2543.1
22.5°	1785.4	1755.0	1687.7	1597.8	1543.2	1631.2	1821.3	1848.3	2101.4	2396.2	2623.6
25°	2223.7	2181.4	2067.0	1890.1	1720.1	1701.9	1858.2	1885.7	2150.0	2453.1	2700.8
27.5°	2722.4	2680.6	2540.6	2288.1	1998.2	1841.9	1942.7	1968.2	2222.2	2503.7	2759.7
30°	3199.9	3188.2	3023.1	2736.1	2348.0	2068.9	2051.7	2073.4	2275.8	2534.2	2806.4
32.5°	3604.8	3586.1	3453.5	3174.4	2748.4	2341.6	2180.0	2186.4	2316.1	2573.5	2867.3
35°	3980.2	3957.1	3840.6	3576.8	3159.2	2674.7	2377.5	2368.1	2404.0	2652.6	2955.8
37.5°	4307.9	4329.0	4199.8	3948.7	3527.7	3021.1	2643.8	2615.8	2541.6	2781.3	3084.0
40°	4582.0	4582.0	4514.7	4305.4	3925.6	3379.3	2945.0	2908.1	2748.4	2979.8	3246.6
42.5°	4680.8	4701.9	4727.0	4608.5	4281.8	3751.7	3280.5	3242.2	3039.8	3261.4	3452.0
45°	4686.7	4720.1	4848.3	4847.8	4603.6	4121.7	3658.8	3640.7	3413.2	3623.0	3706.5
47.5°	4603.6	4645.4	4856.7	4976.5	4858.6	4466.1	4072.5	4049.9	3851.9	4066.1	3972.8
50°	4475.4	4521.6	4767.2	5027.1	5032.1	4765.8	4508.3	4474.4	4334.9	4572.7	4247.9
52.5°	4246.0	4335.4	4687.2	5038.9	5146.0	5024.7	4923.0	4908.3	4875.3	5060.6	4467.0
55°	3755.1	3854.4	4486.2	5042.9	5251.7	5254.1	5311.6	5315.6	5381.9	5516.5	4630.2
57.5°	3523.2	3579.2	4135.4	5061.5	5408.4	5514.5	5707.6	5738.1	5840.8	5949.4	4816.4
60°	3377.3	3443.6	3962.5	5036.0	5654.6	5856.0	6074.6	6085.0	6195.0	6396.0	5068.4
62.5°	3260.9	3326.2	3853.4	4937.7	5931.2	6266.7	6433.3	6434.3	6516.8	6928.1	5354.9
65°	2973.4	3028.5	3632.8	4827.2	6113.9	6673.1	6849.9	6843.5	6910.9	7489.1	5687.5
67.5°	2557.8	2600.0	3182.3	4408.1	6045.2	7042.5	7478.8	7457.7	7376.1	7974.1	5818.2
70°	1977.5	1992.8	2508.2	3673.6	5400.5	7184.5	8086.6	8075.8	7661.6	7887.1	5339.1
71°	1634.6	1684.7	2210.4	3242.2	4968.7	7053.3	8145.5	8151.9	7589.9	7650.3	5009.5
72.5°	949.2	992.0	1602.2	2490.0	4218.4	6506.0	7839.9	7886.1	7254.8	6958.5	4278.9
75°	203.4	217.7	594.0	1205.2	2320.5	4559.9	6188.1	6352.7	5913.0	4733.8	2578.9
77.5°	141.5	152.8	254.5	546.8	766.9	2253.2	3844.1	4029.8	3532.6	1779.1	825.4
80°	112.0	124.8	198.5	270.2	207.3	726.7	1800.7	1914.2	1178.2	397.0	139.0
82.5°	62.4	74.2	154.8	145.9	79.6	138.1	504.1	569.9	235.8	80.1	32.9
85°	18.2	22.1	99.7	106.1	33.9	26.5	86.0	106.6	44.7	21.1	14.7
87.5°	0.0	0.0	48.1	40.8	9.8	3.9	7.9	8.8	8.8	8.8	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P321587
 CATALOG NUMBER: GAN-SA3A-740-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2110.2	2110.2	2110.2	2110.2	2110.2	2110.2	2110.2	2110.2	2110.2	2110.2	2110.2
2.5°	2118.6	2122.0	2109.7	2093.5	2076.3	2055.2	2033.1	2015.9	2015.4	2007.0	1998.7
5°	2144.6	2142.6	2108.7	2057.1	1996.2	1932.8	1872.4	1804.1	1781.5	1753.5	1744.2
7.5°	2192.7	2179.0	2107.3	1994.3	1860.6	1728.0	1590.9	1452.8	1393.9	1340.8	1331.5
10°	2253.2	2227.1	2097.9	1899.9	1654.8	1410.1	1203.2	1015.6	933.0	869.6	866.7
12.5°	2316.1	2276.3	2071.9	1757.4	1385.0	1041.1	802.8	618.1	549.3	505.1	509.0
15°	2381.9	2322.5	2015.9	1565.3	1077.9	706.5	493.3	384.7	357.2	345.9	348.8
17.5°	2449.2	2354.4	1937.8	1333.9	774.8	455.9	341.5	311.0	311.0	313.5	314.4
20°	2507.7	2371.6	1822.8	1074.5	525.2	332.1	298.7	294.3	296.8	300.7	301.2
22.5°	2565.7	2372.6	1672.9	811.7	367.5	290.9	284.5	282.5	284.0	288.4	288.9
25°	2612.8	2360.8	1485.2	577.3	293.3	274.2	271.2	270.2	271.2	276.6	276.6
27.5°	2632.0	2318.0	1256.3	405.8	262.9	255.5	254.5	255.5	257.0	260.9	261.4
30°	2633.9	2243.4	1006.7	293.8	238.3	230.4	232.4	235.8	234.4	233.4	234.4
32.5°	2638.9	2156.9	763.5	241.7	217.7	205.4	202.9	202.9	197.0	193.6	191.6
35°	2655.1	2055.2	553.7	217.2	196.5	182.3	172.9	162.1	150.8	144.9	143.5
37.5°	2680.6	1948.6	396.5	200.9	177.9	161.6	144.0	124.8	108.6	104.2	104.2
40°	2727.3	1838.5	293.3	188.2	163.1	143.0	116.4	91.4	76.6	74.2	74.2
42.5°	2801.0	1722.6	233.9	176.9	150.3	123.8	88.9	66.3	55.5	54.0	53.6
45°	2877.6	1594.8	204.4	166.1	136.6	101.7	65.8	49.1	42.7	41.3	41.3
47.5°	2954.3	1458.7	190.1	155.7	123.3	79.1	49.1	38.8	35.9	35.9	36.4
50°	3019.1	1316.7	179.8	144.4	106.1	59.9	38.8	32.9	31.9	33.9	34.4
52.5°	3035.4	1177.2	167.0	130.2	85.0	45.7	31.9	29.0	29.0	29.0	29.0
55°	3025.5	1069.1	150.3	112.5	62.9	36.4	27.5	25.5	25.1	25.1	25.1
57.5°	3058.9	1005.2	120.4	87.5	45.2	29.5	24.1	22.6	21.6	21.1	21.1
60°	3126.2	963.5	86.0	62.9	33.9	24.6	20.6	19.2	17.7	16.7	16.7
62.5°	3215.7	927.1	63.9	46.7	26.0	19.7	17.2	15.7	13.8	12.8	12.8
65°	3284.5	862.3	48.6	34.9	19.7	15.7	13.3	12.8	9.8	8.8	8.4
67.5°	3179.3	719.8	39.3	25.5	14.7	12.3	10.3	9.8	5.9	4.9	4.9
70°	2726.8	501.1	31.4	18.7	10.8	9.8	8.4	6.4	4.4	3.9	3.9
71°	2472.8	418.6	28.5	15.7	9.3	9.3	7.9	5.4	3.9	3.4	3.4
72.5°	2054.2	297.2	24.1	12.3	8.4	9.8	8.4	4.9	3.9	3.4	2.9
75°	1192.4	124.3	16.7	8.4	6.4	11.8	10.8	4.4	2.9	2.5	2.5
77.5°	358.7	45.7	9.3	5.4	4.9	10.3	12.3	3.9	1.5	0.5	0.5
80°	65.3	19.7	5.9	3.4	3.4	6.4	9.3	2.0	0.0	0.0	0.0
82.5°	23.1	9.8	3.4	2.0	1.5	2.9	4.4	0.0	0.0	0.0	0.0
85°	13.3	6.9	2.0	1.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0
87.5°	8.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)