

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: P318683

Luminaire Tested: **GAN-SA9B-730-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318683  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9B-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46805 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

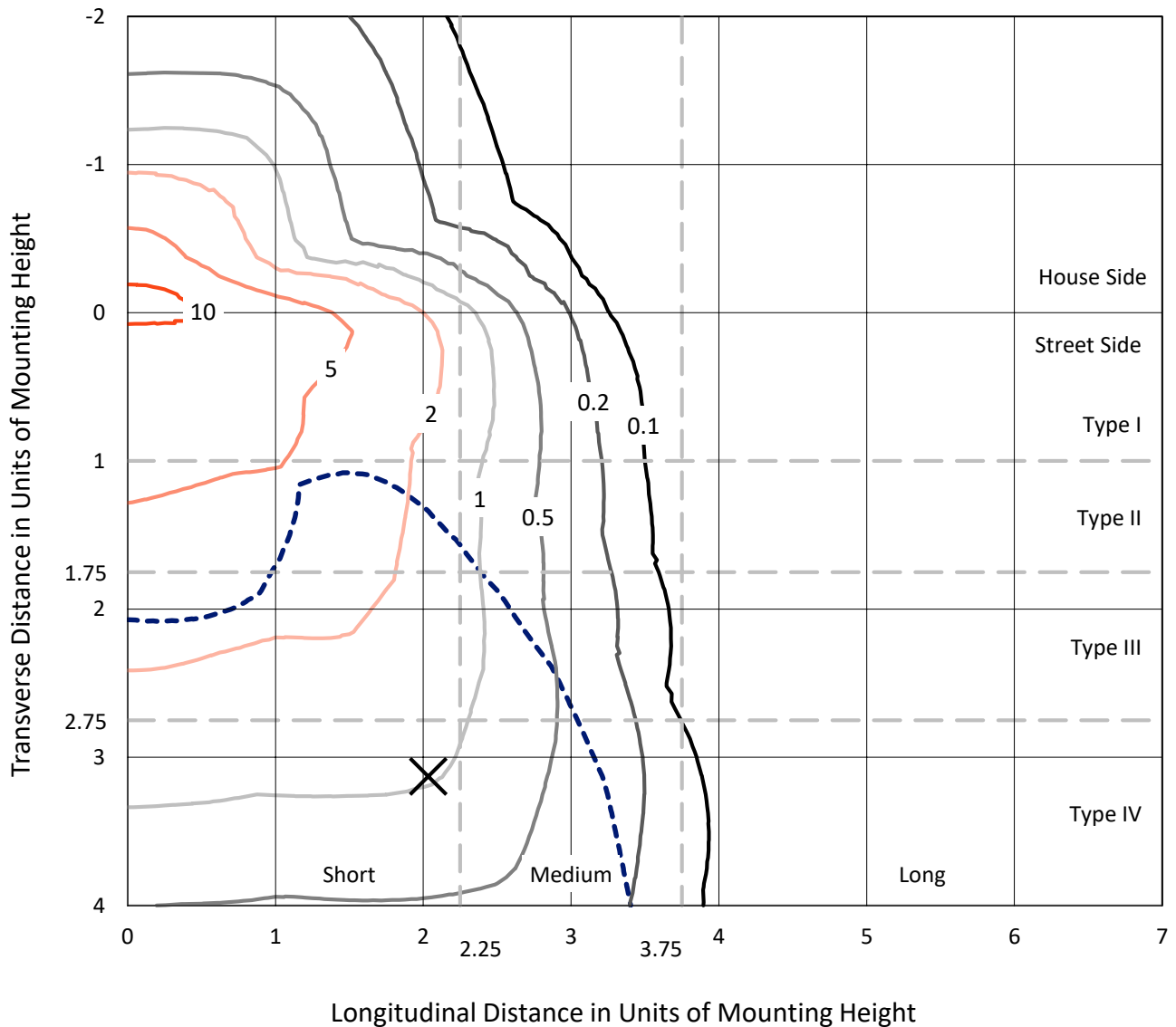
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

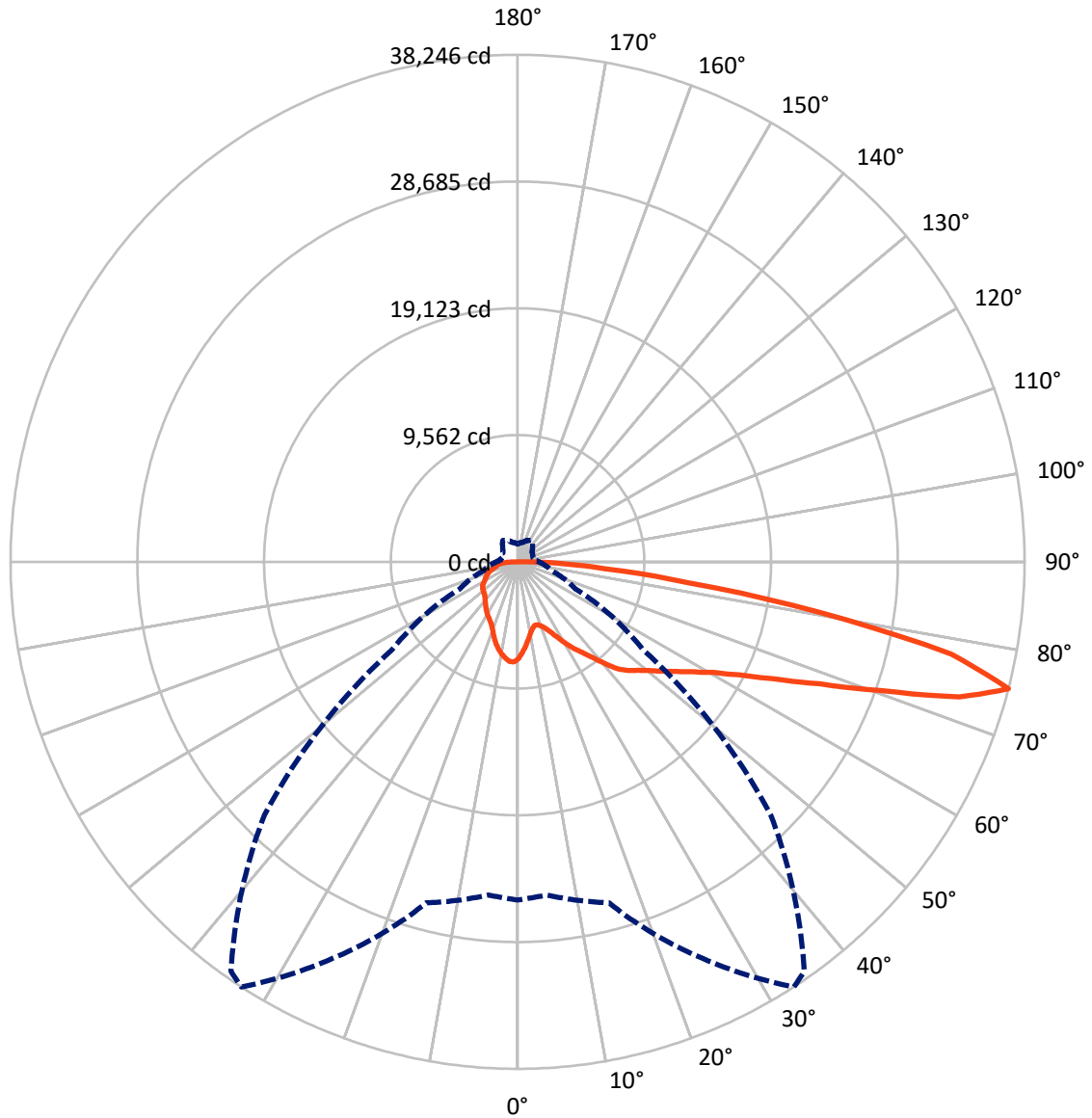
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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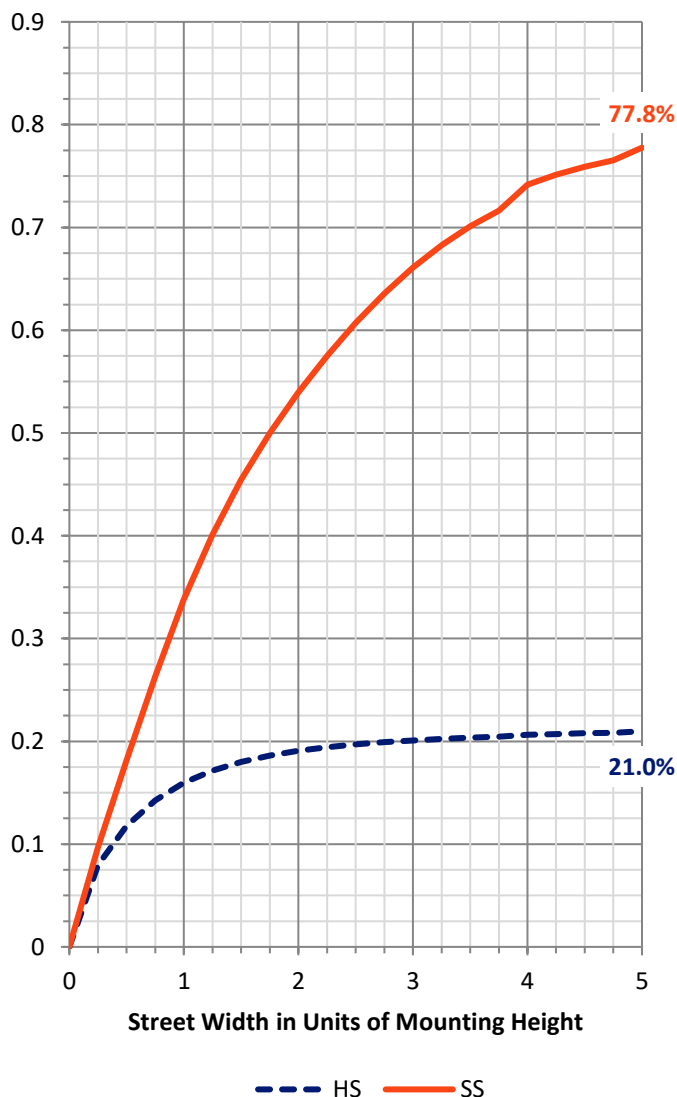
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10050.3	0.0	10050.3
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	36754.7	0.0	36754.7
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	46805.0	0.0	46805.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	661.6	1.4
10°-20°	1792.0	3.8
20°-30°	2926.6	6.3
30°-40°	4358.3	9.3
40°-50°	6251.0	13.4
50°-60°	8581.7	18.3
60°-70°	10743.9	23.0
70°-80°	9719.5	20.8
80°-90°	1770.5	3.8
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°	46805.0	100.0
0°-180°	46805.0	100.0

**Coefficient of Utilization**

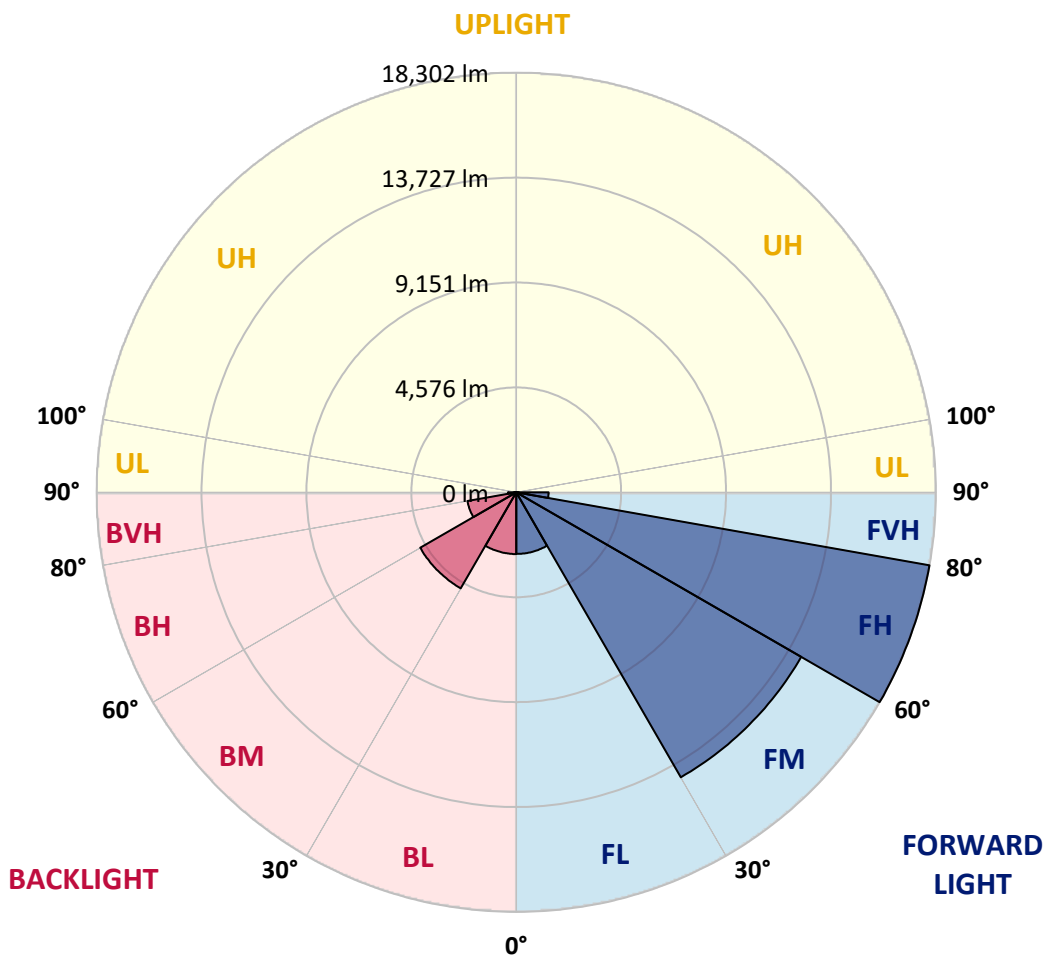


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2688.2	5.7			
FM (30°-60°)	14354.1	30.7			
FH (60°-80°)	18302.4	39.1			G5
FVH (80°-90°)	1410.0	3.0			G5
BL (0°-30°)	2691.9	5.8	B4/5000		
BM (30°-60°)	4836.9	10.3	B3/5000		
BH (60°-80°)	2161.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	360.4	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9
2.5°	6793.7	6767.8	6816.3	6822.8	6864.8	6881.0	6939.2	7029.7	7104.1	7189.8	7267.4
5°	6177.7	6159.9	6227.8	6276.3	6368.5	6407.3	6544.7	6737.1	6908.5	7102.5	7278.7
7.5°	5592.4	5582.7	5658.7	5768.6	5875.3	5928.7	6166.4	6446.1	6732.2	7045.9	7315.9
10°	5099.3	5096.1	5168.8	5277.1	5434.0	5493.8	5801.0	6169.6	6570.6	7002.2	7378.9
12.5°	4822.8	4834.1	4868.1	4958.6	5104.1	5164.0	5505.1	5938.4	6434.7	6987.7	7471.1
15°	4890.7	4908.5	4850.3	4847.1	4950.5	4997.4	5317.6	5773.5	6337.7	7011.9	7605.3
17.5°	5180.1	5183.4	5029.8	4932.8	4995.8	5020.1	5259.4	5679.7	6281.2	7066.9	7773.4
20°	5587.6	5579.5	5307.9	5146.2	5180.1	5186.6	5341.8	5681.3	6276.3	7162.3	7991.7
22.5°	6127.6	6067.7	5702.3	5482.5	5474.4	5464.7	5553.6	5801.0	6347.4	7317.5	8252.0
25°	6832.5	6775.9	6273.1	5972.3	5907.7	5883.4	5896.4	6056.4	6488.1	7484.0	8543.0
27.5°	7616.6	7518.0	7032.9	6607.7	6473.5	6439.6	6362.0	6417.0	6641.7	7644.1	8889.0
30°	8273.0	8219.7	7796.1	7291.6	7133.2	7084.7	6881.0	6821.2	6863.2	7862.4	9325.5
32.5°	8640.0	8604.4	8347.4	7940.0	7792.8	7724.9	7437.1	7317.5	7218.9	8206.7	9917.3
35°	9084.6	9062.0	8906.8	8610.9	8392.7	8321.5	8098.4	7973.9	7720.1	8680.4	10682.0
37.5°	9650.5	9626.2	9629.5	9390.2	9129.9	9063.6	8916.5	8785.5	8370.0	9302.9	11513.0
40°	10290.7	10243.9	10226.1	10214.8	10049.8	10012.7	9935.1	9757.2	9184.9	10046.6	12332.7
42.5°	11254.3	11087.8	10732.1	10866.3	11029.6	11010.2	11073.3	10817.8	10090.3	10926.1	13133.0
45°	12184.0	11910.7	11296.4	11325.5	11682.8	11791.1	12263.2	12082.1	11071.6	11889.7	13960.8
47.5°	12607.6	12400.6	11878.4	11880.0	12234.1	12458.8	13493.6	13364.2	12103.1	12984.3	14971.3
50°	13081.3	12874.3	12405.5	12581.7	12890.5	13129.8	14681.9	14615.6	13084.5	14182.3	16182.3
52.5°	13598.7	13247.8	12950.3	13265.6	13698.9	13977.0	15871.8	15690.8	13985.1	15388.4	17574.3
55°	13605.1	13509.7	13736.1	13967.3	14615.6	14956.7	17118.4	16639.8	14719.1	16573.5	18707.6
57.5°	14379.6	14224.3	14704.5	14811.2	15658.4	16043.2	18358.4	17466.0	15466.0	17482.1	19318.8
60°	15404.6	15272.0	15664.9	15946.2	16948.6	17462.7	19682.6	18314.8	16052.9	18167.6	19289.7
62.5°	17174.9	17024.6	17019.7	17414.2	18764.2	19362.4	21168.4	19147.4	16285.7	18303.5	18466.7
65°	19766.6	19527.3	19076.3	19263.8	21271.8	21868.4	22828.8	19750.5	15978.5	17575.9	16347.2
67.5°	22288.8	22280.7	21726.2	22110.9	24583.0	25061.6	24720.4	19810.3	15019.8	15042.4	12586.6
70°	24802.9	24835.2	24741.4	26080.1	29056.6	29554.6	26734.9	19006.7	12864.6	10863.1	7540.6
72.5°	26794.7	26786.6	27258.7	30710.5	34862.4	34750.9	28432.5	16571.9	9236.6	5864.0	3603.8
75°	25504.5	25223.2	26629.8	33003.1	38246.3	37701.5	26988.7	11559.9	4793.7	2669.3	1940.1
77.5°	16634.9	16901.7	18966.3	27263.6	33454.2	32791.3	19800.6	5393.5	2258.6	1751.0	1406.6
80°	6024.1	6305.4	8880.9	15443.4	23048.7	22940.3	9750.7	2216.6	1527.8	1322.5	1025.0
82.5°	2072.7	2176.2	3503.5	6858.3	13013.4	13498.4	3668.5	1259.5	1110.7	937.7	701.7
85°	813.2	931.3	1602.2	3299.8	6564.1	6612.6	1485.8	753.4	772.8	614.4	384.8
87.5°	308.8	375.1	766.3	1532.7	2997.5	2753.4	531.9	358.9	439.8	365.4	182.7
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°	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9	7315.9
2.5°	7327.2	7361.2	7432.3	7480.8	7532.5	7547.1	7553.5	7566.5	7579.4	7574.6	7576.2
5°	7372.5	7438.8	7553.5	7602.1	7624.7	7598.8	7548.7	7508.3	7479.2	7463.0	7458.2
7.5°	7446.8	7540.6	7663.5	7655.4	7603.7	7488.9	7359.5	7262.5	7181.7	7152.6	7136.4
10°	7545.5	7655.4	7741.1	7648.9	7498.6	7299.7	7105.7	6955.3	6834.1	6787.2	6779.1
12.5°	7671.6	7783.1	7799.3	7603.7	7354.7	7083.1	6819.5	6620.7	6439.6	6381.4	6368.5
15°	7834.9	7940.0	7839.7	7524.4	7176.8	6811.5	6470.3	6200.3	6009.5	5938.4	5912.5
17.5°	8006.2	8106.5	7847.8	7393.5	6944.0	6489.7	6061.3	5784.8	5566.5	5484.1	5474.4
20°	8211.6	8256.8	7813.8	7205.9	6623.9	6072.6	5621.5	5361.2	5244.8	5186.6	5180.1
22.5°	8465.4	8416.9	7736.2	6952.1	6218.1	5590.8	5223.8	5102.5	5073.4	5060.5	5065.3
25°	8733.8	8585.0	7621.5	6620.7	5705.6	5109.0	4932.8	4966.7	5005.5	5000.7	5000.7
27.5°	9029.7	8756.4	7445.2	6180.9	5138.1	4714.5	4735.5	4860.0	4918.2	4916.6	4915.0
30°	9409.6	8950.4	7220.5	5652.2	4607.8	4436.4	4564.1	4716.1	4795.3	4792.1	4793.7
32.5°	9876.8	9163.9	6914.9	5062.1	4224.6	4231.1	4378.2	4528.6	4620.7	4612.6	4614.3
35°	10423.3	9403.1	6501.0	4480.1	3970.8	4067.8	4184.2	4289.3	4376.6	4365.3	4354.0
37.5°	11018.3	9637.6	5951.3	3959.5	3763.8	3915.8	4012.8	4030.6	4071.0	4041.9	4020.9
40°	11584.2	9817.0	5243.2	3532.6	3555.3	3786.5	3849.5	3778.4	3705.6	3695.9	3666.8
42.5°	12077.3	9876.8	4527.0	3191.5	3335.4	3650.7	3689.5	3540.7	3409.8	3348.3	3322.5
45°	12597.9	9897.9	3859.2	2905.3	3123.6	3529.4	3571.4	3372.6	3188.3	3055.7	3012.0
47.5°	13278.5	10049.8	3340.2	2693.5	2961.9	3448.6	3508.4	3238.4	2999.1	2809.9	2769.5
50°	14169.4	10350.6	2918.3	2531.9	2856.8	3395.2	3463.1	3107.4	2843.9	2615.9	2575.5
52.5°	15158.8	10627.0	2577.1	2400.9	2755.0	3301.4	3404.9	3013.7	2698.4	2436.5	2392.8
55°	15850.8	10415.2	2302.3	2265.1	2622.4	3167.3	3324.1	2934.4	2489.8	2261.9	2223.1
57.5°	15983.4	9690.9	2093.7	2124.4	2462.3	2999.1	3199.6	2758.2	2376.7	2185.9	2145.5
60°	15621.2	8682.1	1938.5	1995.1	2291.0	2787.3	2966.8	2633.7	2268.3	2105.0	2071.1
62.5°	14711.0	7648.9	1823.7	1878.7	2130.9	2572.3	2821.3	2502.8	2158.4	2012.9	1978.9
65°	12872.7	6421.8	1713.8	1775.2	1982.2	2386.4	2690.3	2381.5	2050.1	1938.5	1906.2
67.5°	9716.8	4809.9	1610.3	1665.3	1849.6	2224.7	2548.0	2261.9	1945.0	1873.8	1835.0
70°	5721.7	3012.0	1492.3	1550.5	1710.5	2056.5	2396.1	2130.9	1814.0	1781.7	1731.6
72.5°	2662.8	1812.4	1358.1	1414.7	1535.9	1831.8	2200.4	1959.5	1658.8	1587.7	1519.8
75°	1589.3	1325.8	1199.6	1249.8	1335.5	1592.5	1954.7	1784.9	1511.7	1417.9	1346.8
77.5°	1188.3	1013.7	1025.0	1078.4	1147.9	1393.7	1731.6	1647.5	1398.5	1325.8	1277.2
80°	855.3	769.6	835.9	894.1	966.8	1267.5	1658.8	1523.0	1264.3	1167.3	1122.0
82.5°	570.7	552.9	628.9	688.7	759.9	1109.1	1558.6	1333.8	1080.0	957.1	856.9
85°	315.3	333.1	423.6	449.5	510.9	780.9	1277.2	1071.9	813.2	654.8	625.7
87.5°	131.0	153.6	228.0	219.9	271.6	465.6	840.7	646.7	517.4	386.4	300.7
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)