

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386609

Luminaire Tested: GAW-SA2B-740-U-SL2

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386609  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2B-740-U-SL2  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11684 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

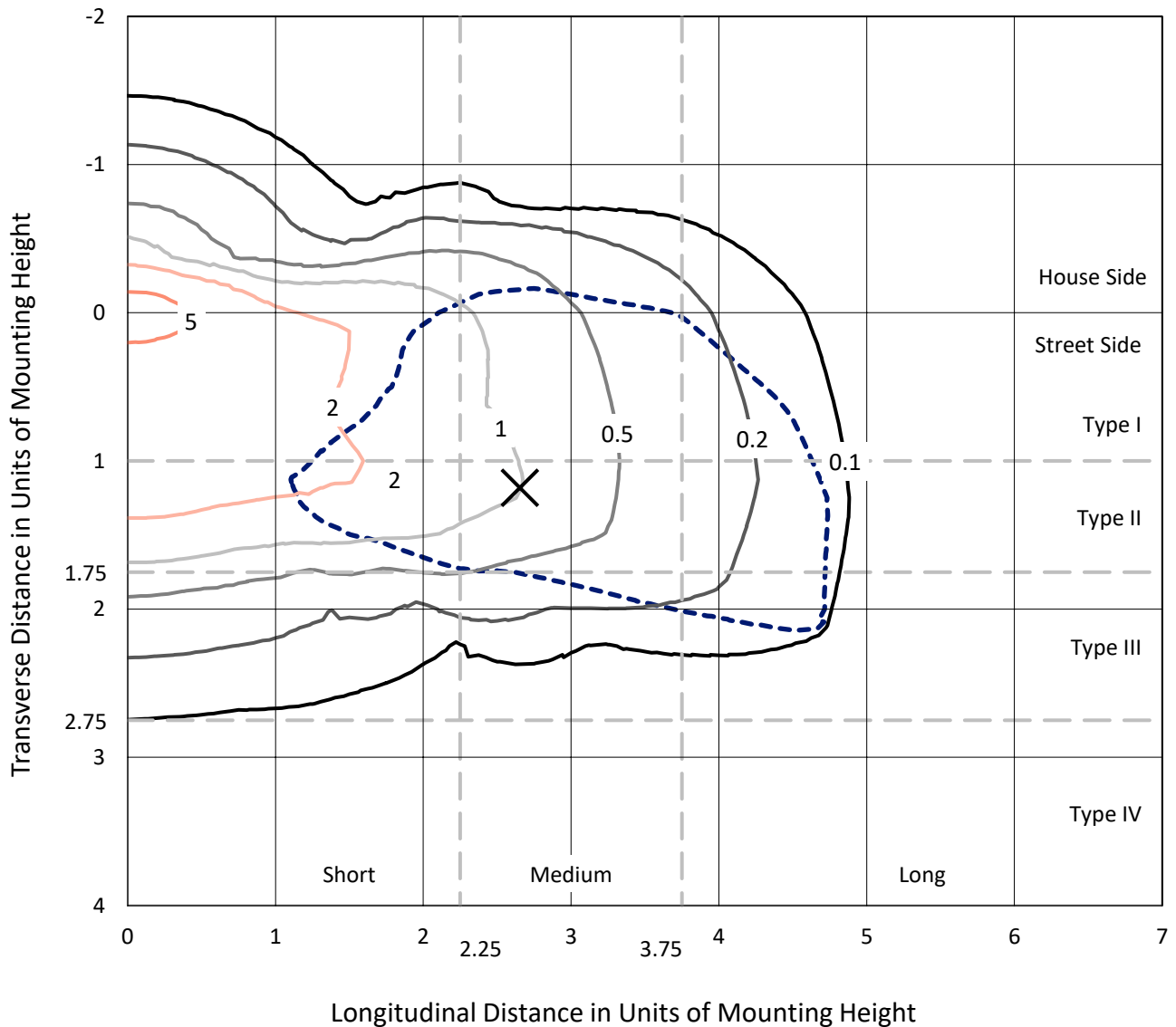
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

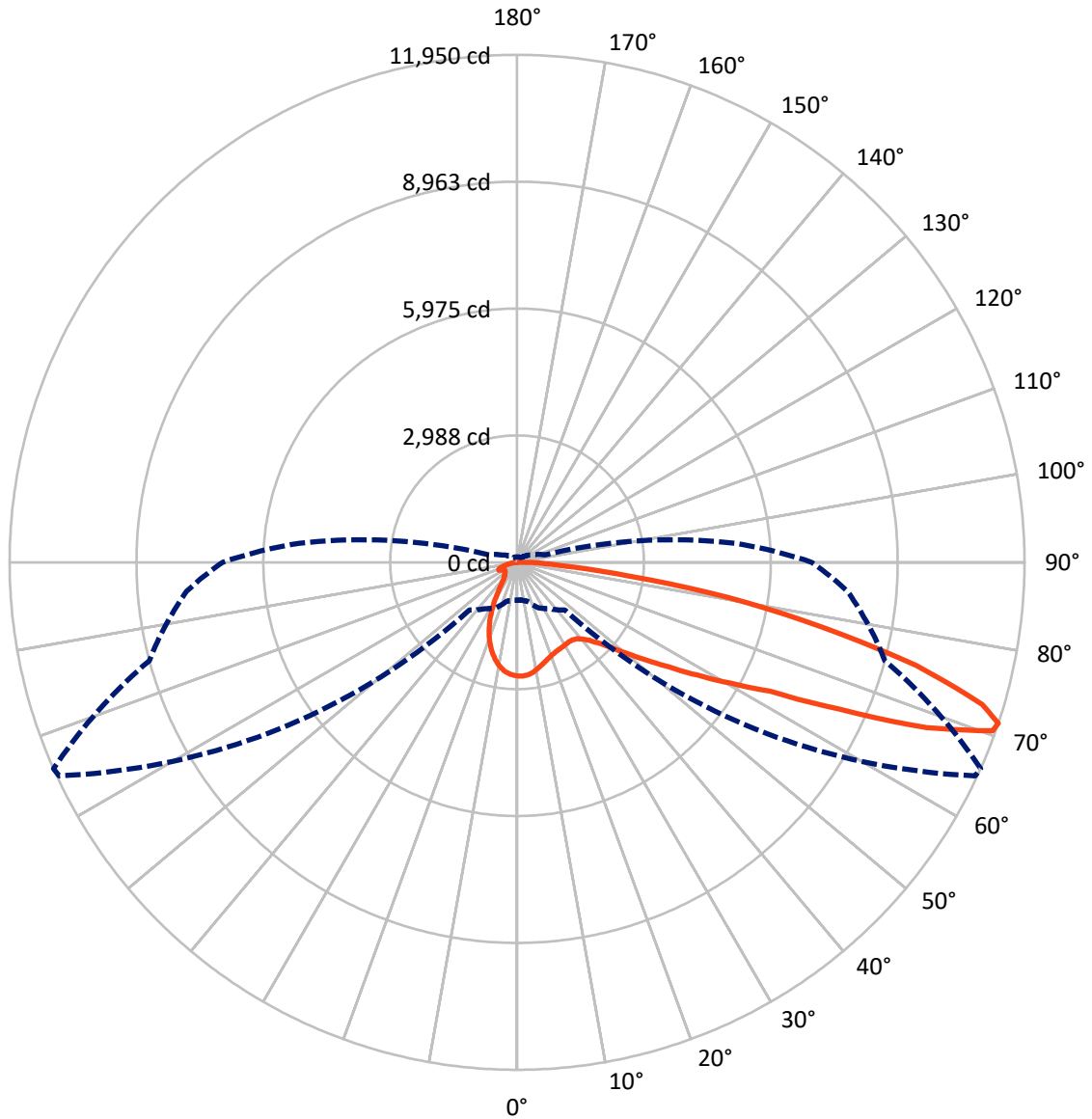
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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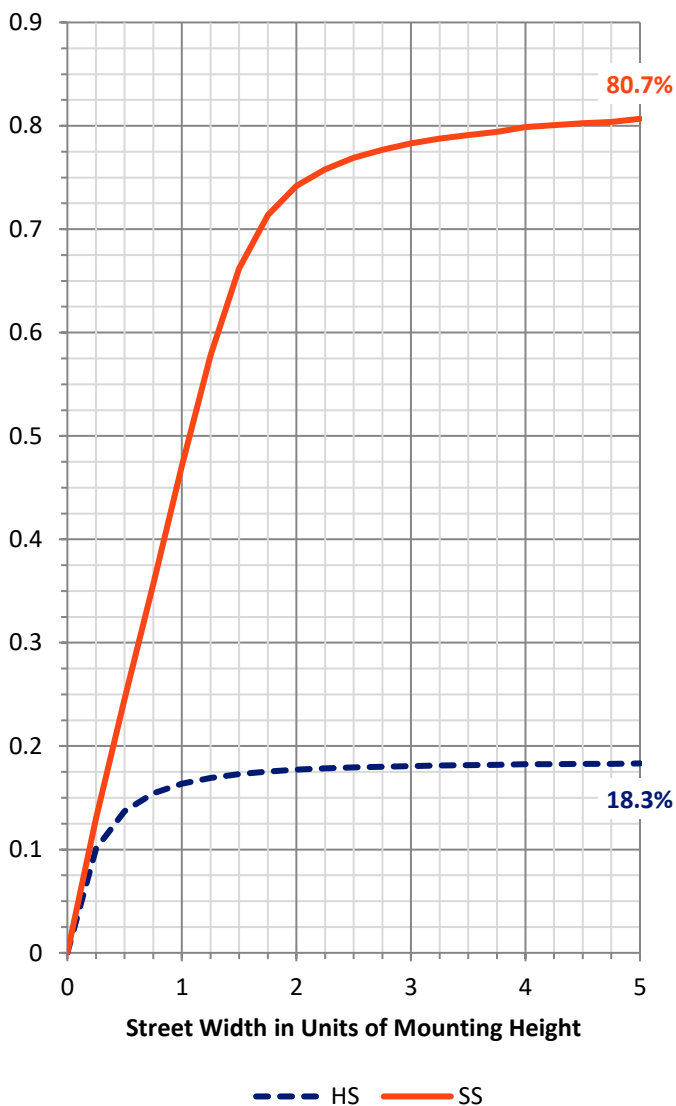
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2165.4	0.0	2165.4
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	9518.6	0.0	9518.6
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	11684.0	0.0	11684.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.6	2.0
10°-20°	565.1	4.8
20°-30°	759.0	6.5
30°-40°	998.5	8.5
40°-50°	1452.6	12.4
50°-60°	2269.1	19.4
60°-70°	2842.4	24.3
70°-80°	2168.1	18.6
80°-90°	393.7	3.4
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°	11684.0	100.0
0°-180°	11684.0	100.0

**Coefficient of Utilization**

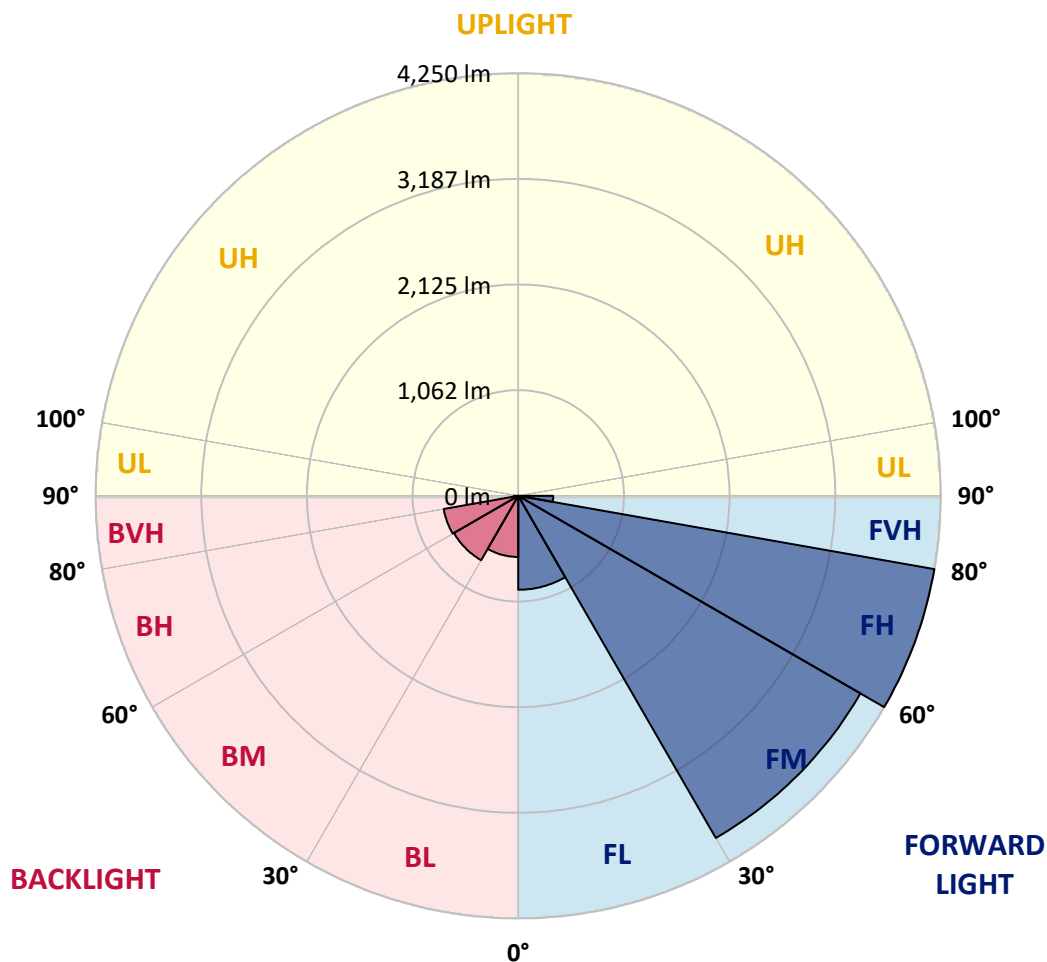


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	944.8	8.1			
FM (30°-60°)	3973.1	34.0			
FH (60°-80°)	4249.6	36.4			G2/5000
FVH (80°-90°)	351.1	3.0			G3/500
BL (0°-30°)	614.9	5.3	B2/1000		
BM (30°-60°)	747.0	6.4	B1/1000		
BH (60°-80°)	760.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	42.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2627.0	2622.9	2635.0	2647.5	2652.4	2660.4	2672.5	2679.4	2679.0	2680.2	2676.2
5°	2452.7	2447.4	2471.6	2491.4	2529.3	2572.1	2624.1	2661.2	2662.1	2683.0	2688.7
7.5°	2287.7	2284.1	2311.9	2343.8	2387.7	2453.1	2537.4	2617.3	2622.1	2679.0	2698.8
10°	2155.4	2154.6	2181.6	2216.3	2267.5	2340.5	2437.4	2554.3	2561.6	2659.6	2700.4
12.5°	2052.1	2053.7	2077.1	2116.7	2170.7	2247.0	2351.8	2483.8	2495.5	2629.0	2691.1
15°	1975.9	1982.3	2001.3	2041.2	2094.5	2171.9	2279.6	2418.4	2436.2	2594.7	2685.9
17.5°	1932.3	1939.6	1952.9	1986.0	2036.0	2110.6	2212.7	2364.7	2380.9	2568.5	2686.3
20°	1919.4	1925.4	1933.1	1953.3	1995.6	2063.4	2159.8	2316.3	2333.7	2547.5	2690.3
22.5°	1944.8	1949.2	1950.0	1948.4	1974.3	2029.5	2121.5	2280.8	2299.4	2533.8	2693.1
25°	1999.3	2005.3	2000.9	1986.0	1977.5	2011.4	2101.7	2257.4	2276.0	2523.7	2687.5
27.5°	2081.2	2082.0	2078.3	2059.0	2019.0	2013.4	2095.7	2243.7	2261.5	2512.0	2675.8
30°	2192.5	2197.7	2191.3	2165.1	2099.7	2045.7	2102.9	2230.4	2246.6	2497.1	2656.8
32.5°	2322.8	2335.7	2335.3	2307.9	2214.3	2117.9	2132.8	2222.3	2234.9	2481.3	2633.8
35°	2457.9	2475.7	2508.8	2497.1	2381.3	2232.0	2190.1	2235.3	2243.7	2479.3	2617.7
37.5°	2598.3	2616.1	2684.2	2715.7	2580.2	2395.4	2280.4	2280.8	2284.9	2503.9	2616.5
40°	2745.2	2764.1	2866.6	2948.5	2837.9	2602.4	2426.1	2376.0	2371.6	2564.4	2640.3
42.5°	2950.9	2967.8	3090.9	3195.4	3124.0	2867.4	2627.4	2522.9	2513.6	2683.0	2716.5
45°	3211.1	3225.6	3356.3	3468.1	3431.3	3169.9	2880.3	2725.0	2723.4	2880.7	2871.0
47.5°	3520.5	3531.8	3649.2	3757.3	3770.6	3518.1	3198.2	3036.8	3010.6	3151.8	3110.2
50°	3842.8	3855.3	3935.2	4051.4	4150.2	3984.0	3607.2	3418.8	3383.7	3509.6	3449.1
52.5°	4056.2	4072.8	4142.1	4289.4	4577.0	4494.7	4090.9	3881.9	3828.7	3943.3	3896.9
55°	3961.0	3998.1	4104.2	4340.2	4918.3	5274.9	4687.5	4422.1	4362.0	4457.2	4429.8
57.5°	3528.2	3579.0	3723.8	4088.1	4966.3	5962.3	5589.6	5058.3	5015.9	4988.5	5001.0
60°	2737.1	2785.9	2965.4	3440.2	4631.9	6464.1	6947.0	5842.5	5781.2	5521.8	5533.1
62.5°	1937.1	1912.5	2035.6	2382.9	3763.7	6523.0	8491.6	6891.3	6689.6	6084.9	6035.3
65°	1477.3	1471.6	1526.9	1637.4	2279.6	5818.3	9411.8	8654.2	8339.1	6747.3	6630.3
67.5°	1213.8	1203.8	1258.2	1419.2	1468.0	3753.7	9432.0	10699.5	10390.0	7571.9	7318.5
70°	998.0	986.7	1037.6	1245.3	1356.6	1903.7	7938.2	11897.2	11880.6	8615.9	7838.1
71°	894.7	886.7	947.6	1178.3	1332.8	1586.6	6853.8	11900.4	11950.0	8969.3	7807.5
72.5°	728.5	731.4	795.9	1048.8	1315.1	1401.0	5037.3	11345.7	11450.6	9306.1	7528.7
75°	484.1	486.5	571.2	806.8	1275.2	1370.8	2768.6	9520.3	9713.1	9104.4	6870.0
77.5°	325.1	324.3	382.0	553.5	1111.0	1370.8	1623.3	7120.5	7332.3	7244.3	5296.3
80°	223.9	222.3	263.0	382.0	841.1	1387.3	1255.0	4990.1	5054.2	3912.2	2152.6
82.5°	137.2	138.4	171.8	269.9	572.4	1248.5	1184.8	2721.0	2651.2	1097.3	537.7
85°	78.7	78.3	109.7	182.7	367.5	1053.7	1155.3	1171.1	1074.3	330.4	194.4
87.5°	28.2	30.3	58.9	101.3	210.6	733.8	980.3	609.1	549.0	149.3	87.9
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°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2673.4	2675.8	2672.9	2656.8	2643.1	2620.9	2608.4	2591.1	2585.8	2583.4	2589.8
5°	2683.4	2684.2	2660.4	2618.1	2570.5	2514.4	2474.1	2424.5	2401.1	2391.0	2397.4
7.5°	2692.7	2689.1	2637.0	2556.0	2468.0	2370.4	2283.7	2204.2	2157.8	2138.8	2140.5
10°	2693.9	2678.6	2595.1	2469.6	2333.3	2190.1	2057.0	1934.3	1856.9	1806.4	1821.8
12.5°	2681.4	2655.6	2533.4	2357.9	2168.7	1973.4	1793.5	1609.6	1499.0	1447.8	1449.4
15°	2671.7	2624.9	2457.5	2226.4	1972.2	1713.7	1468.0	1251.8	1134.0	1081.5	1056.9
17.5°	2663.7	2591.9	2369.6	2078.3	1740.3	1412.3	1117.0	924.2	859.7	844.3	837.9
20°	2652.4	2556.8	2271.6	1906.9	1476.1	1075.1	815.7	720.5	720.9	738.6	741.1
22.5°	2636.6	2516.8	2167.1	1714.5	1192.5	783.0	639.4	612.0	639.8	673.7	679.7
25°	2613.2	2469.6	2050.9	1501.9	909.3	601.9	546.2	545.0	578.9	614.4	619.6
27.5°	2580.2	2407.9	1921.8	1273.5	670.1	511.5	489.3	497.8	522.8	548.6	550.6
30°	2535.8	2336.1	1779.4	1032.7	525.2	455.4	453.0	460.7	476.0	494.2	495.8
32.5°	2487.0	2263.1	1627.3	799.5	449.8	425.2	427.6	431.2	438.5	445.8	447.4
35°	2442.6	2188.5	1471.6	607.5	413.9	405.4	403.8	403.0	403.8	401.4	401.8
37.5°	2414.0	2126.7	1309.4	483.7	393.3	388.1	383.2	377.2	370.3	366.3	367.1
40°	2403.5	2080.8	1145.3	417.9	376.4	372.7	363.5	350.6	342.5	340.1	340.1
42.5°	2431.7	2057.0	986.7	384.8	362.3	356.2	340.9	325.9	319.9	319.5	319.1
45°	2518.0	2066.6	835.9	366.7	349.3	337.6	317.5	305.0	300.9	301.7	301.3
47.5°	2672.9	2127.5	706.8	354.6	336.4	321.1	298.5	288.4	283.6	283.6	284.0
50°	2936.4	2269.9	603.9	344.5	325.5	305.8	284.8	272.3	265.8	265.4	265.4
52.5°	3320.0	2524.9	539.8	336.0	313.4	292.1	271.1	255.4	247.7	246.1	245.3
55°	3800.9	2890.4	522.0	330.4	297.3	277.1	254.5	238.8	230.3	226.7	226.3
57.5°	4338.6	3334.9	557.1	323.5	280.8	259.4	236.4	221.5	212.6	208.2	207.8
60°	4882.8	3820.2	700.3	313.8	267.1	240.0	217.8	204.1	195.2	190.4	189.6
62.5°	5427.8	4331.7	992.8	313.0	257.4	221.5	198.9	187.2	178.7	173.5	172.3
65°	6042.6	4891.7	1325.2	334.4	254.1	204.5	179.5	170.2	163.0	158.1	157.7
67.5°	6748.5	5523.8	1293.3	378.4	265.0	189.2	161.4	154.1	148.9	144.8	144.4
70°	7079.7	5425.0	804.0	409.5	280.4	174.3	144.0	138.8	134.7	131.9	130.7
71°	6941.0	5151.1	674.1	405.8	278.8	167.8	137.2	133.1	129.1	126.7	125.5
72.5°	6562.6	4697.6	562.3	377.6	260.6	156.1	128.3	124.2	120.6	117.8	117.0
75°	5888.9	4195.4	450.2	301.7	207.8	131.9	112.5	108.1	105.3	103.7	102.1
77.5°	4328.9	2994.1	348.1	238.4	152.9	107.7	96.0	92.8	90.0	87.5	86.3
80°	1658.4	1159.8	234.4	177.9	112.1	85.1	77.5	75.8	73.0	71.4	71.4
82.5°	446.6	346.5	125.1	107.7	75.0	62.1	59.3	58.5	56.1	52.8	53.2
85°	180.7	152.9	70.2	59.3	46.0	36.7	39.9	40.3	37.5	33.5	33.9
87.5°	79.5	64.9	39.1	26.2	20.2	14.1	18.2	18.2	16.5	13.7	12.5
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)