

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: P386777

Luminaire Tested: GAW-SA2C-727-U-SL2

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386777  
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-SA2C-727-U-SL2  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA 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: 12094 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

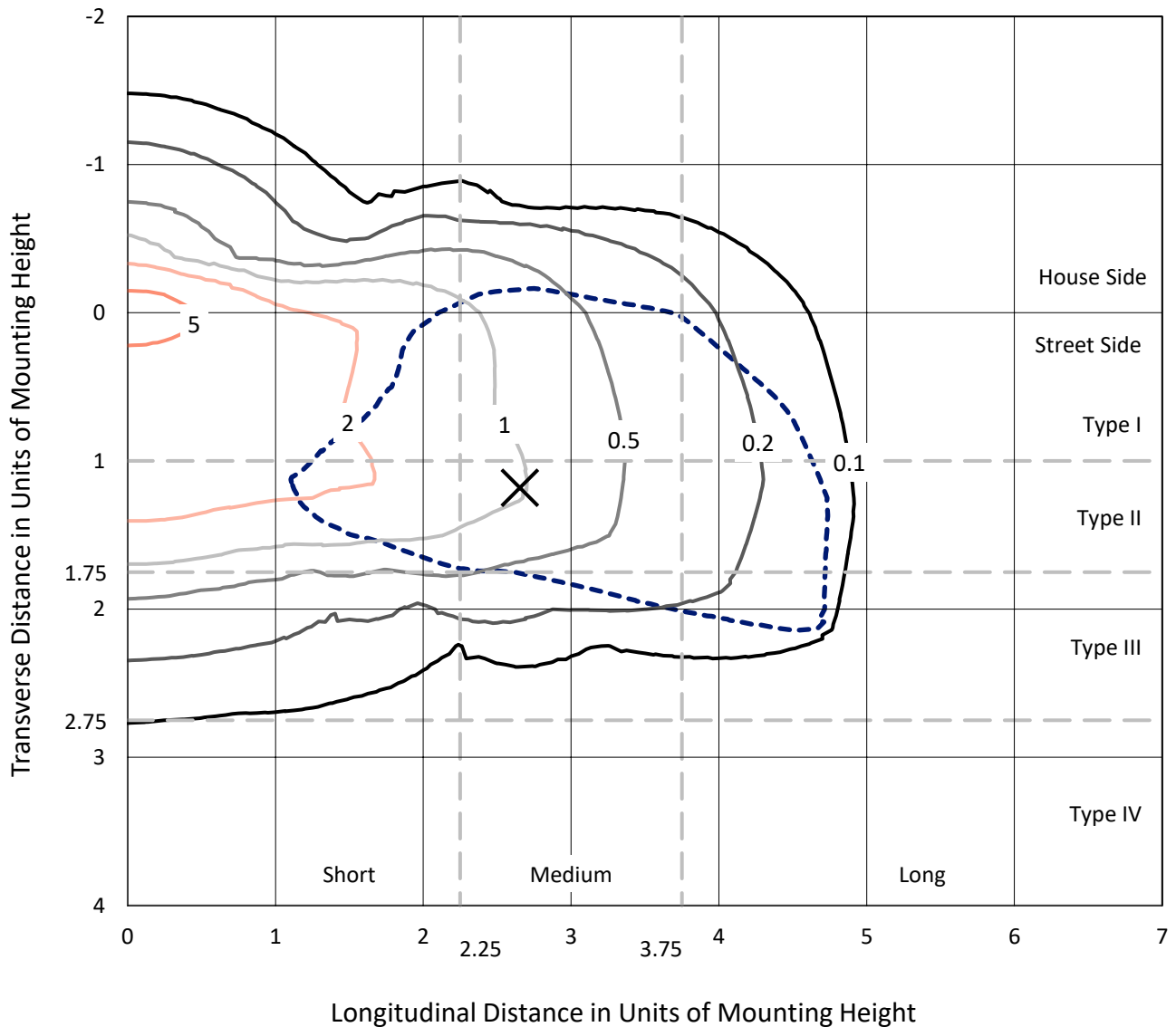
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

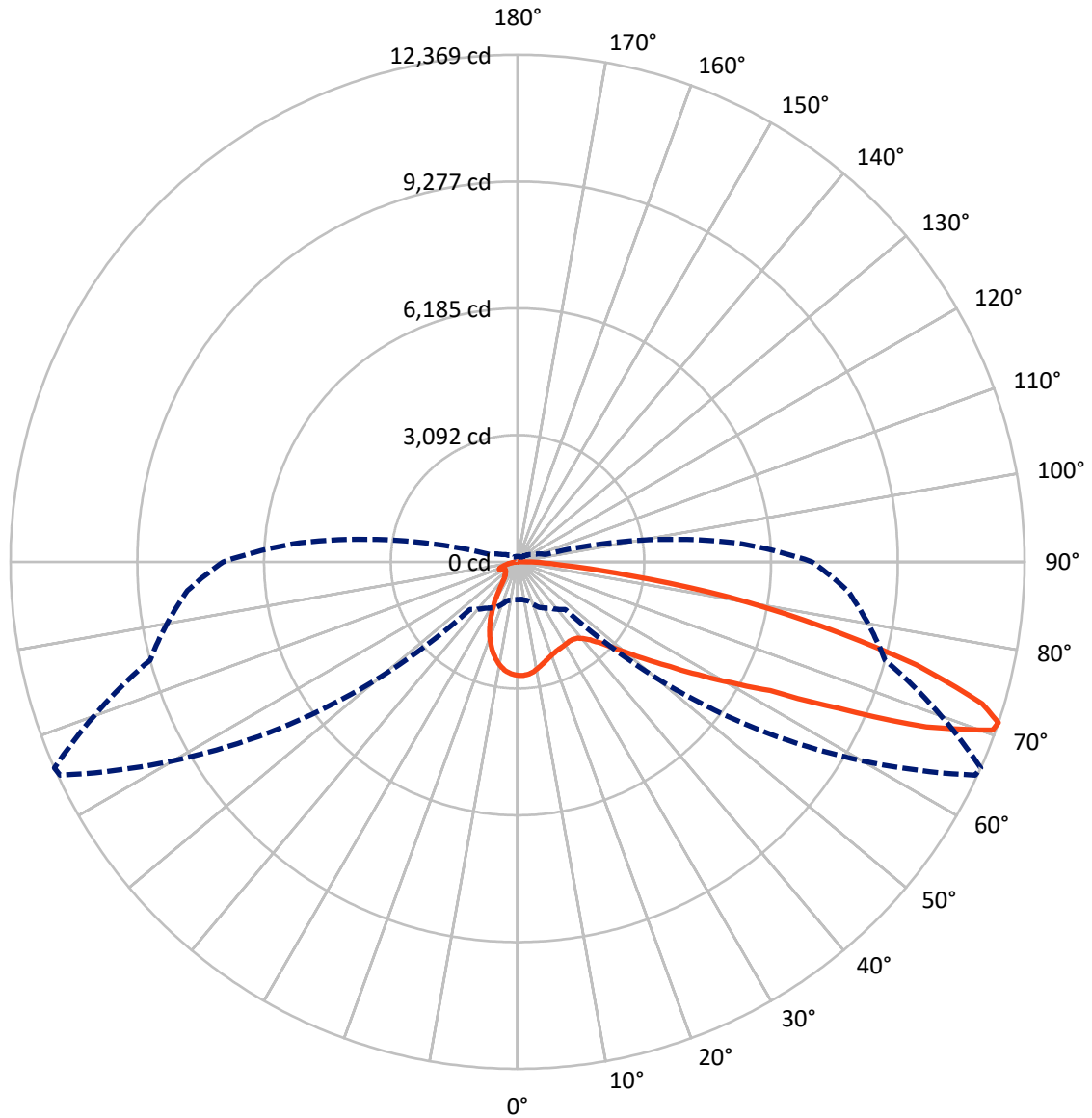
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 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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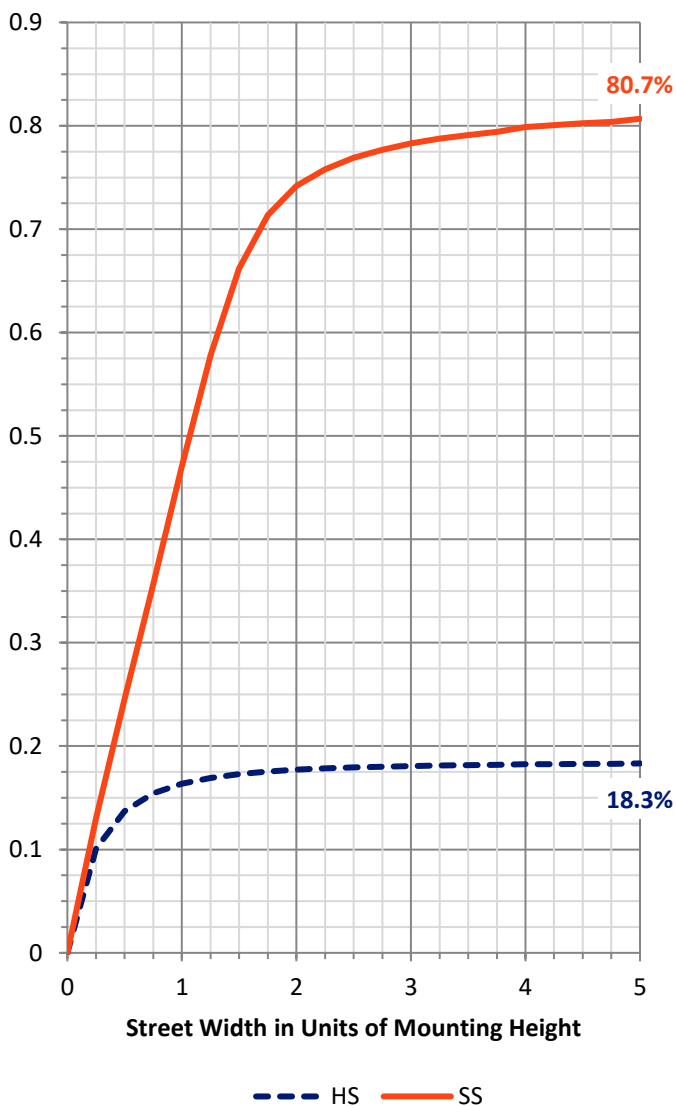
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2241.3	0.0	2241.3
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	9852.7	0.0	9852.7
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	12094.0	0.0	12094.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.9	2.0
10°-20°	584.9	4.8
20°-30°	785.7	6.5
30°-40°	1033.5	8.5
40°-50°	1503.5	12.4
50°-60°	2348.7	19.4
60°-70°	2942.1	24.3
70°-80°	2244.2	18.6
80°-90°	407.5	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°	12094.0	100.0
0°-180°	12094.0	100.0

**Coefficient of Utilization**

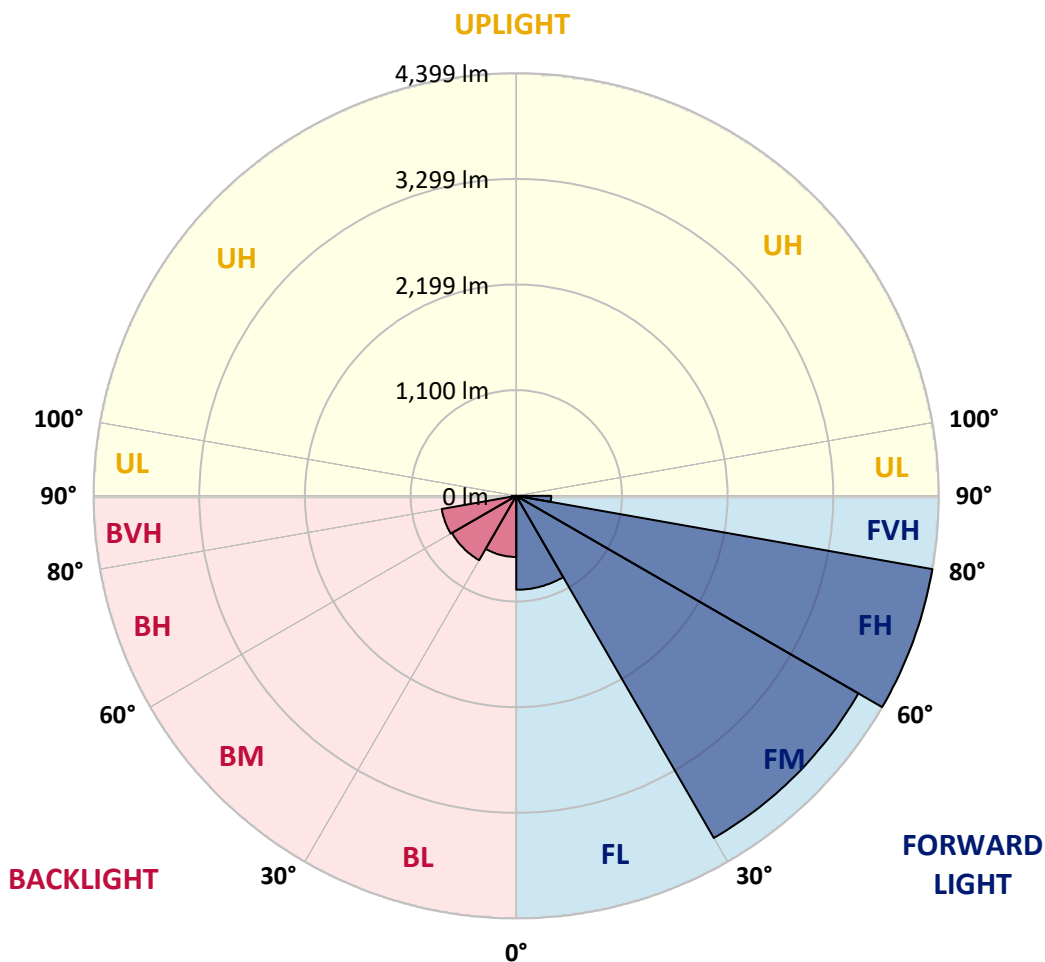


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	978.0	8.1			
FM (30°-60°)	4112.6	34.0			
FH (60°-80°)	4398.7	36.4			G2/5000
FVH (80°-90°)	363.4	3.0			G3/500
BL (0°-30°)	636.5	5.3	B2/1000		
BM (30°-60°)	773.2	6.4	B1/1000		
BH (60°-80°)	787.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	44.1	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°	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5
2.5°	2719.1	2715.0	2727.5	2740.4	2745.4	2753.8	2766.3	2773.4	2773.0	2774.3	2770.1
5°	2538.8	2533.3	2558.4	2578.8	2618.1	2662.4	2716.2	2754.6	2755.5	2777.2	2783.0
7.5°	2368.0	2364.2	2393.0	2426.0	2471.5	2539.2	2626.4	2709.1	2714.1	2773.0	2793.5
10°	2231.0	2230.2	2258.2	2294.1	2347.1	2422.7	2522.9	2644.0	2651.5	2753.0	2795.1
12.5°	2124.1	2125.8	2150.0	2190.9	2246.9	2325.8	2434.4	2570.9	2583.0	2721.2	2785.5
15°	2045.2	2051.9	2071.5	2112.8	2168.0	2248.1	2359.6	2503.3	2521.6	2685.7	2780.1
17.5°	2000.1	2007.6	2021.4	2055.6	2107.4	2184.7	2290.3	2447.7	2464.4	2658.6	2780.5
20°	1986.7	1993.0	2000.9	2021.8	2065.7	2135.8	2235.6	2397.6	2415.6	2636.9	2784.7
22.5°	2013.0	2017.6	2018.5	2016.8	2043.5	2100.7	2195.9	2360.9	2380.1	2622.7	2787.6
25°	2069.4	2075.7	2071.1	2055.6	2046.9	2081.9	2175.5	2336.7	2355.9	2612.2	2781.8
27.5°	2154.2	2155.0	2151.3	2131.2	2089.9	2084.0	2169.2	2322.5	2340.8	2600.1	2769.7
30°	2269.4	2274.9	2268.2	2241.0	2173.4	2117.4	2176.7	2308.7	2325.4	2584.7	2750.0
32.5°	2404.3	2417.7	2417.2	2388.9	2292.0	2192.2	2207.6	2300.3	2313.3	2568.4	2726.2
35°	2544.2	2562.6	2596.8	2584.7	2464.8	2310.4	2266.9	2313.7	2322.5	2566.3	2709.5
37.5°	2689.5	2707.9	2778.4	2811.0	2670.7	2479.5	2360.5	2360.9	2365.1	2591.8	2708.3
40°	2841.5	2861.1	2967.2	3051.9	2937.5	2693.7	2511.2	2459.4	2454.8	2654.4	2732.9
42.5°	3054.4	3072.0	3199.3	3307.5	3233.6	2968.0	2719.6	2611.4	2601.8	2777.2	2811.8
45°	3323.8	3338.8	3474.1	3589.8	3551.8	3281.2	2981.4	2820.6	2818.9	2981.8	2971.8
47.5°	3644.0	3655.7	3777.2	3889.1	3902.9	3641.5	3310.4	3143.4	3116.2	3262.4	3219.4
50°	3977.7	3990.6	4073.3	4193.5	4295.8	4123.8	3733.8	3538.8	3502.5	3632.8	3570.1
52.5°	4198.6	4215.7	4287.5	4439.9	4737.6	4652.4	4234.5	4018.2	3963.0	4081.6	4033.6
55°	4100.0	4138.4	4248.2	4492.5	5090.9	5460.0	4852.0	4577.3	4515.1	4613.6	4585.2
57.5°	3652.0	3704.6	3854.5	4231.5	5140.6	6171.5	5785.7	5235.8	5191.9	5163.5	5176.5
60°	2833.1	2883.7	3069.5	3560.9	4794.4	6691.0	7190.8	6047.5	5984.0	5715.5	5727.2
62.5°	2005.1	1979.6	2107.0	2466.5	3895.8	6751.9	8789.6	7133.2	6924.4	6298.5	6247.1
65°	1529.1	1523.3	1580.5	1694.9	2359.6	6022.4	9742.1	8957.9	8631.8	6984.1	6863.0
67.5°	1256.4	1246.0	1302.4	1469.0	1519.5	3885.4	9762.9	11074.9	10754.6	7837.6	7575.3
70°	1033.0	1021.3	1074.0	1289.0	1404.2	1970.5	8216.7	12314.6	12297.5	8918.2	8113.2
71°	926.1	917.8	980.8	1219.7	1379.6	1642.3	7094.3	12318.0	12369.3	9284.0	8081.4
72.5°	754.1	757.0	823.8	1085.7	1361.2	1450.2	5214.1	11743.8	11852.4	9632.7	7792.9
75°	501.1	503.6	591.3	835.1	1319.9	1418.9	2865.7	9854.4	10054.0	9423.9	7111.0
77.5°	336.6	335.7	395.4	572.9	1150.0	1418.9	1680.3	7370.3	7589.5	7498.5	5482.1
80°	231.7	230.1	272.2	395.4	870.6	1436.0	1299.0	5165.2	5231.6	4049.5	2228.1
82.5°	142.0	143.2	177.9	279.3	592.5	1292.3	1226.4	2816.4	2744.2	1135.8	556.6
85°	81.4	81.0	113.6	189.2	380.4	1090.7	1195.9	1212.2	1112.0	342.0	201.3
87.5°	29.2	31.3	61.0	104.8	218.0	759.5	1014.7	630.5	568.3	154.5	91.0
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°	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5
2.5°	2767.2	2769.7	2766.7	2750.0	2735.8	2712.9	2699.9	2682.0	2676.6	2674.0	2680.7
5°	2777.6	2778.4	2753.8	2710.0	2660.7	2602.6	2560.9	2509.5	2485.3	2474.9	2481.6
7.5°	2787.2	2783.4	2729.6	2645.7	2554.6	2453.6	2363.8	2281.5	2233.5	2213.9	2215.6
10°	2788.5	2772.6	2686.2	2556.3	2415.2	2266.9	2129.1	2002.2	1922.0	1869.8	1885.7
12.5°	2775.5	2748.8	2622.3	2440.6	2244.8	2042.7	1856.5	1666.1	1551.6	1498.6	1500.3
15°	2765.5	2717.1	2543.8	2304.5	2041.4	1773.8	1519.5	1295.7	1173.8	1119.5	1094.0
17.5°	2757.1	2682.8	2452.7	2151.3	1801.3	1461.9	1156.2	956.6	889.8	874.0	867.3
20°	2745.4	2646.5	2351.3	1973.8	1527.8	1112.8	844.3	745.8	746.2	764.5	767.1
22.5°	2729.2	2605.1	2243.1	1774.6	1234.3	810.5	661.8	633.4	662.2	697.3	703.6
25°	2704.9	2556.3	2122.9	1554.6	941.2	623.0	565.4	564.1	599.2	635.9	641.4
27.5°	2670.7	2492.4	1989.2	1318.2	693.6	529.5	506.5	515.3	541.2	567.9	570.0
30°	2624.8	2418.1	1841.9	1068.9	543.7	471.4	468.9	476.9	492.7	511.5	513.2
32.5°	2574.2	2342.5	1684.4	827.6	465.6	440.1	442.6	446.4	453.9	461.4	463.1
35°	2528.3	2265.3	1523.3	628.8	428.4	419.6	418.0	417.1	418.0	415.5	415.9
37.5°	2498.7	2201.4	1355.4	500.7	407.1	401.7	396.7	390.4	383.3	379.1	380.0
40°	2487.8	2153.8	1185.4	432.6	389.6	385.8	376.2	362.9	354.5	352.0	352.0
42.5°	2517.0	2129.1	1021.3	398.4	375.0	368.7	352.8	337.4	331.1	330.7	330.3
45°	2606.4	2139.2	865.2	379.6	361.6	349.5	328.6	315.7	311.5	312.3	311.9
47.5°	2766.7	2202.2	731.6	367.0	348.2	332.4	309.0	298.6	293.5	293.5	294.0
50°	3039.4	2349.6	625.1	356.6	337.0	316.5	294.8	281.9	275.2	274.8	274.8
52.5°	3436.5	2613.5	558.7	347.8	324.4	302.3	280.6	264.3	256.4	254.7	253.9
55°	3934.2	2991.8	540.3	342.0	307.7	286.9	263.5	247.2	238.4	234.7	234.3
57.5°	4490.8	3452.0	576.6	334.9	290.6	268.5	244.7	229.2	220.1	215.5	215.0
60°	5054.1	3954.3	724.9	324.9	276.4	248.4	225.5	211.3	202.1	197.1	196.3
62.5°	5618.3	4483.7	1027.6	324.0	266.4	229.2	205.9	193.7	185.0	179.6	178.3
65°	6254.6	5063.3	1371.7	346.2	263.1	211.7	185.8	176.2	168.7	163.7	163.3
67.5°	6985.3	5717.6	1338.7	391.7	274.3	195.8	167.0	159.5	154.1	149.9	149.5
70°	7328.2	5615.3	832.2	423.8	290.2	180.4	149.1	143.6	139.5	136.5	135.3
71°	7184.5	5331.8	697.7	420.1	288.5	173.7	142.0	137.8	133.6	131.1	129.9
72.5°	6792.8	4862.5	582.1	390.8	269.7	161.6	132.8	128.6	124.9	121.9	121.1
75°	6095.5	4342.6	466.0	312.3	215.0	136.5	116.5	111.9	109.0	107.3	105.6
77.5°	4480.8	3099.1	360.4	246.8	158.3	111.5	99.4	96.0	93.1	90.6	89.4
80°	1716.6	1200.5	242.6	184.1	116.1	88.1	80.2	78.5	75.6	73.9	73.9
82.5°	462.2	358.7	129.4	111.5	77.7	64.3	61.4	60.5	58.0	54.7	55.1
85°	187.1	158.3	72.7	61.4	47.6	38.0	41.3	41.8	38.8	34.7	35.1
87.5°	82.3	67.2	40.5	27.1	20.9	14.6	18.8	18.8	17.1	14.2	12.9
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)