

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: P386837

Luminaire Tested: GAW-SA2C-735-U-SL4

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386837  
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  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2C-735-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 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: 13175 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

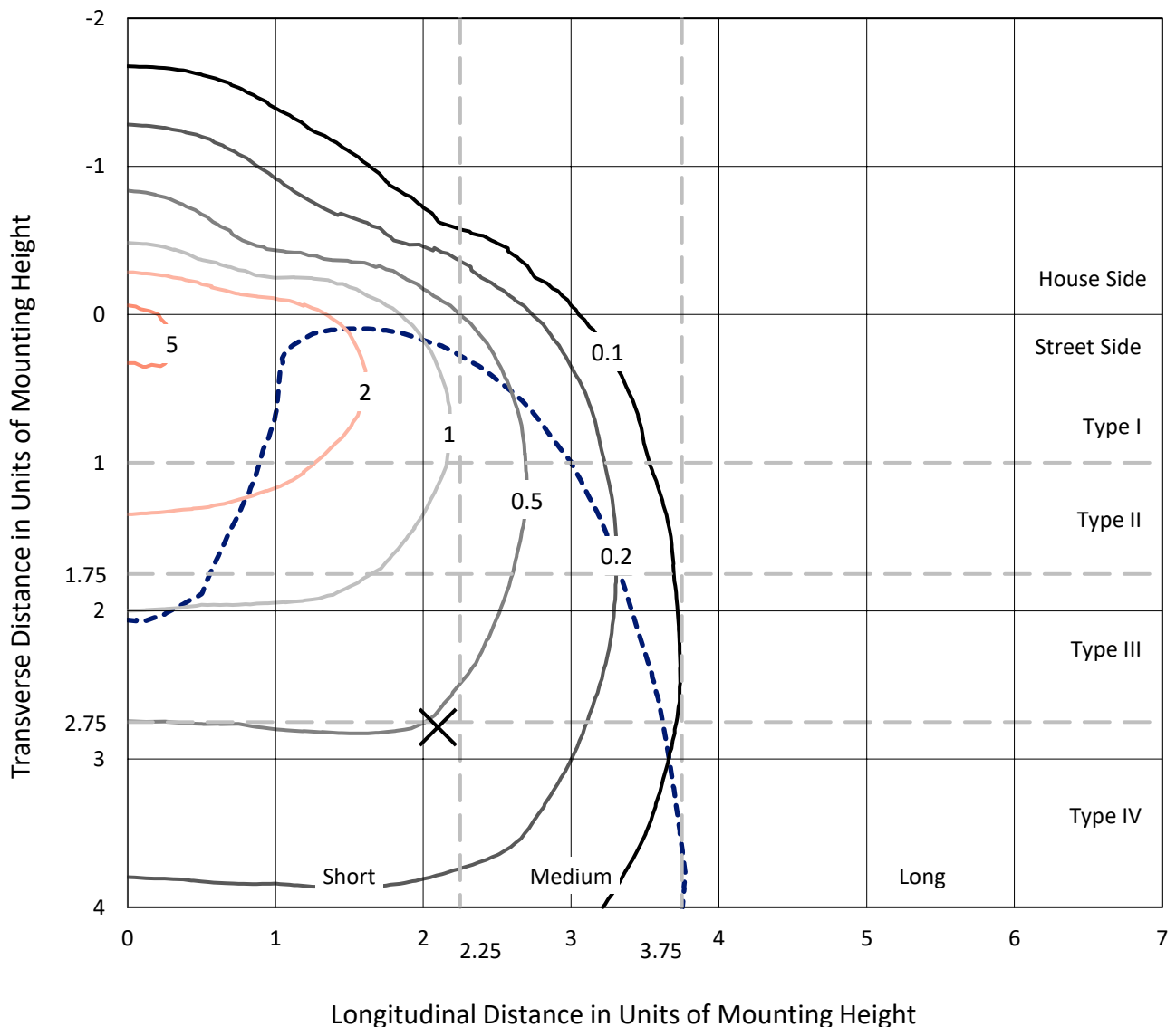
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

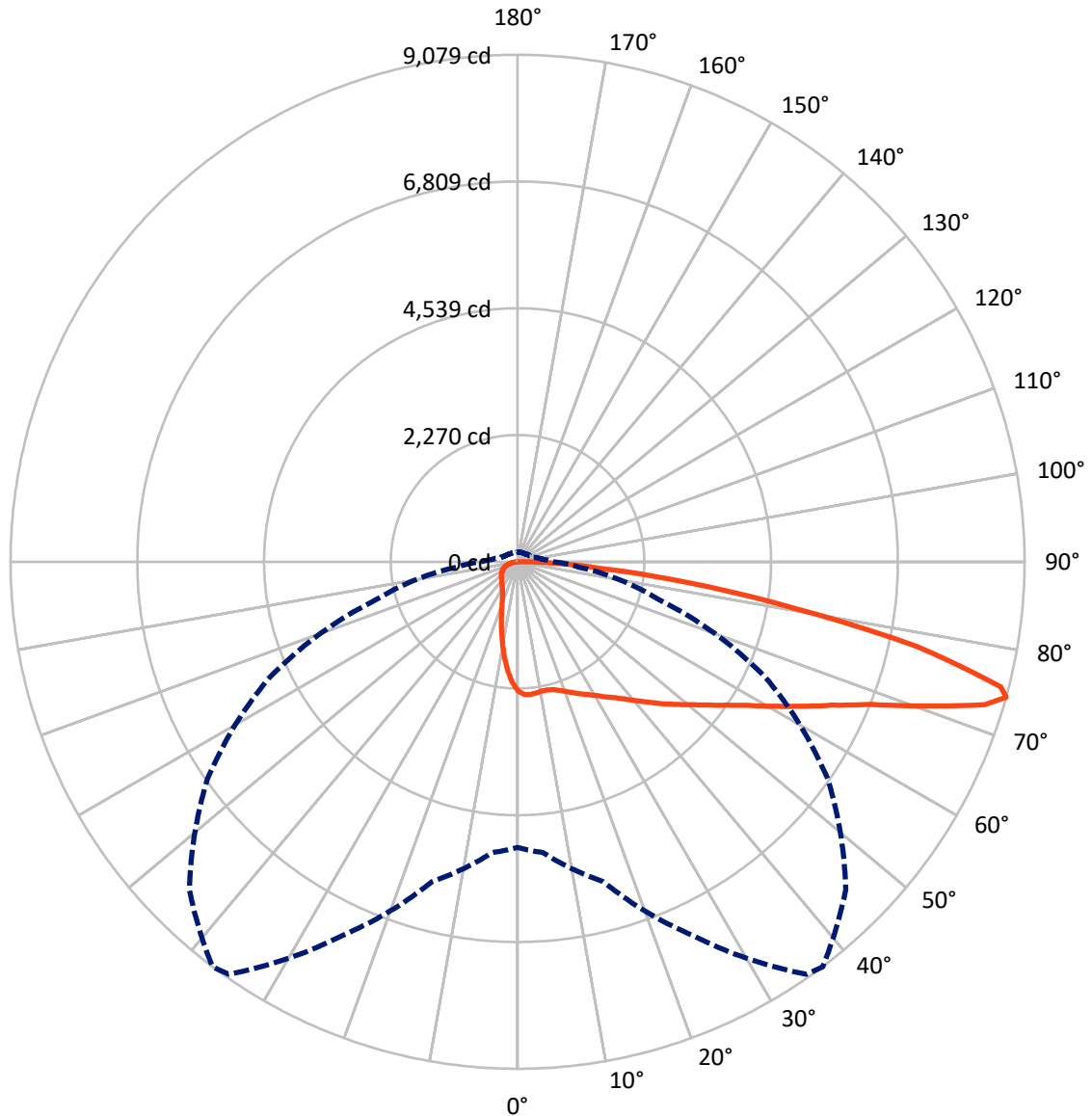
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 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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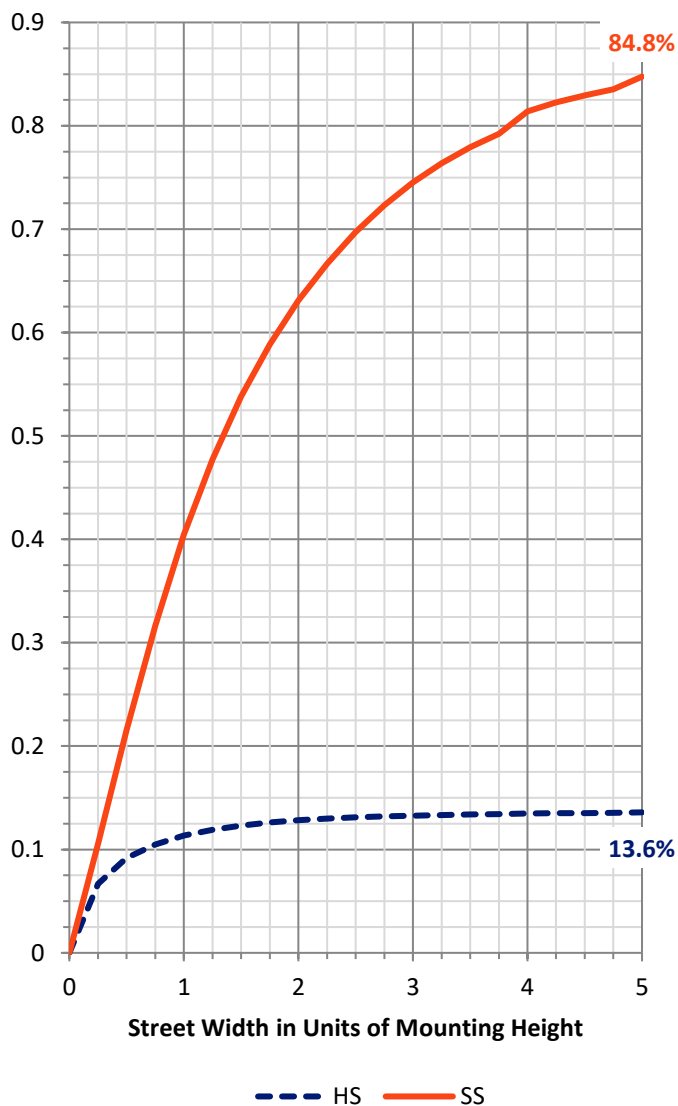
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1812.8	0.0	1812.8
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	11362.2	0.0	11362.2
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	13175.0	0.0	13175.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.4	1.6
10°-20°	524.0	4.0
20°-30°	807.4	6.1
30°-40°	1174.0	8.9
40°-50°	1728.0	13.1
50°-60°	2426.6	18.4
60°-70°	3071.4	23.3
70°-80°	2704.5	20.5
80°-90°	534.7	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°	13175.0	100.0
0°-180°	13175.0	100.0

**Coefficient of Utilization**

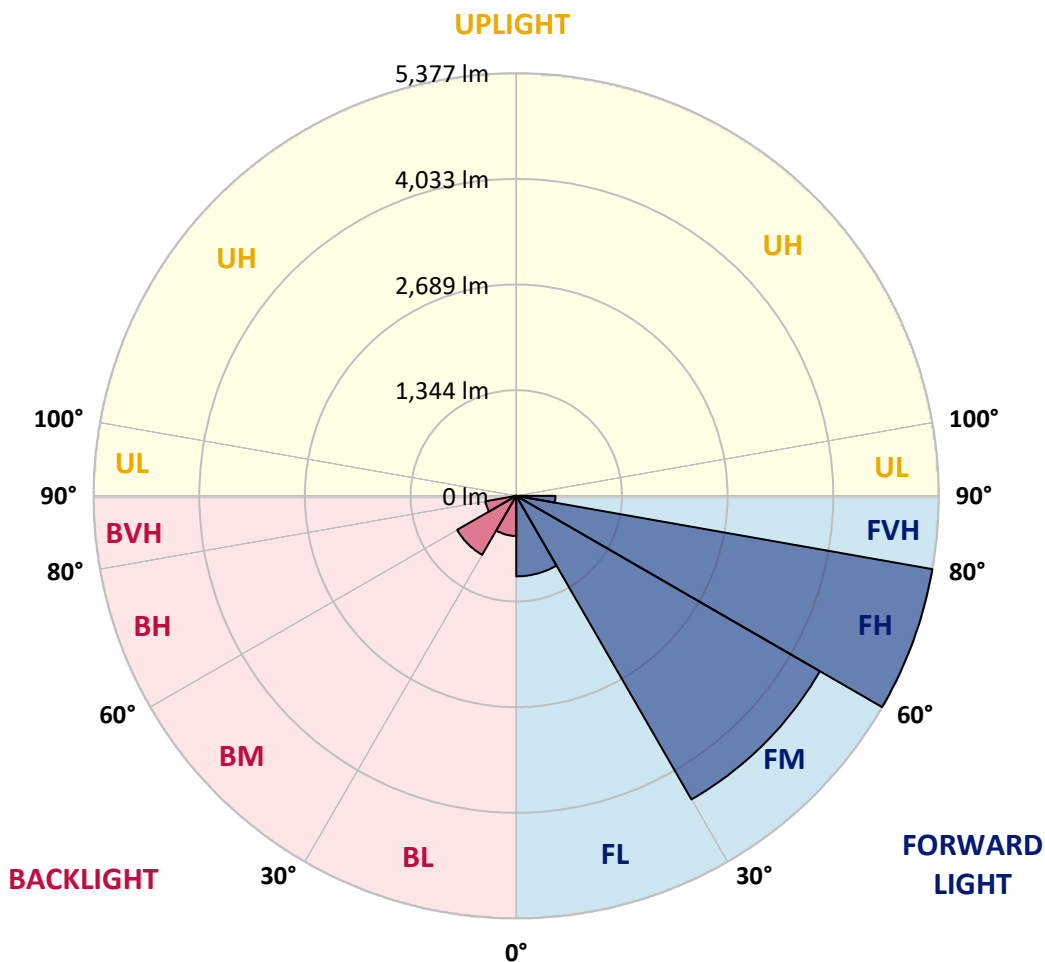


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1025.2	7.8			
FM (30°-60°)	4461.2	33.9			
FH (60°-80°)	5377.4	40.8			G3/7500
FVH (80°-90°)	498.5	3.8			G3/500
BL (0°-30°)	510.6	3.9	B2/1000		
BM (30°-60°)	867.5	6.6	B1/1000		
BH (60°-80°)	398.5	3.0	B1/500		G1/500
BVH (80°-90°)	36.2	0.3			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4
2.5°	2400.7	2401.2	2400.7	2397.1	2388.2	2380.8	2374.8	2366.0	2346.4	2331.6	2309.3
5°	2423.4	2420.7	2418.8	2411.9	2398.0	2389.6	2378.0	2361.3	2329.2	2299.5	2263.4
7.5°	2412.8	2409.5	2405.4	2397.1	2381.3	2374.3	2358.1	2336.3	2297.8	2258.8	2206.7
10°	2379.9	2378.9	2377.0	2375.3	2361.7	2356.2	2341.3	2318.1	2280.1	2232.8	2172.0
12.5°	2343.2	2345.5	2352.9	2362.7	2356.7	2353.8	2344.6	2328.9	2289.9	2238.8	2165.5
15°	2320.0	2326.5	2346.4	2372.0	2377.0	2376.1	2373.8	2363.6	2322.3	2265.7	2180.3
17.5°	2312.1	2322.7	2360.8	2403.1	2417.9	2421.2	2422.1	2404.5	2358.5	2298.6	2195.6
20°	2326.5	2339.9	2395.6	2453.6	2477.3	2479.2	2475.0	2444.4	2392.8	2327.0	2204.0
22.5°	2370.1	2382.2	2451.8	2517.2	2544.2	2547.0	2534.4	2488.0	2429.1	2360.3	2215.6
25°	2454.1	2469.0	2538.6	2604.0	2617.9	2618.4	2600.3	2542.8	2476.4	2407.2	2240.6
27.5°	2563.6	2578.4	2641.1	2705.2	2697.8	2693.6	2669.0	2611.4	2538.1	2471.7	2285.2
30°	2685.7	2702.0	2761.3	2806.8	2789.2	2780.8	2760.9	2686.7	2624.0	2559.9	2353.4
32.5°	2811.9	2826.8	2878.8	2909.9	2887.6	2883.8	2853.7	2786.0	2735.8	2694.6	2463.8
35°	2941.4	2952.0	3003.1	3020.8	2991.0	2990.2	2981.8	2919.6	2888.1	2907.5	2624.5
37.5°	3073.7	3076.4	3120.1	3121.0	3112.2	3115.9	3124.7	3085.7	3094.6	3155.3	2833.3
40°	3191.6	3199.0	3230.6	3240.3	3255.6	3268.6	3312.7	3287.1	3355.4	3463.1	3093.1
42.5°	3278.8	3293.2	3343.8	3368.9	3418.5	3438.9	3501.1	3524.8	3662.1	3823.6	3402.3
45°	3352.6	3374.9	3456.1	3507.6	3591.6	3627.4	3716.4	3795.8	4008.9	4214.9	3727.6
47.5°	3432.5	3460.7	3562.4	3660.7	3775.0	3815.3	3977.3	4096.0	4378.7	4608.4	4034.3
50°	3549.9	3571.7	3671.0	3825.5	3968.0	4019.9	4244.1	4414.4	4754.6	4983.4	4300.3
52.5°	3713.6	3705.3	3789.3	4006.0	4197.2	4261.3	4529.1	4753.2	5135.7	5322.7	4524.9
55°	3878.4	3864.5	3923.5	4195.0	4464.6	4531.8	4842.8	5093.4	5498.1	5628.0	4697.1
57.5°	4061.8	4035.3	4085.0	4407.9	4769.0	4849.2	5194.1	5455.0	5854.5	5875.0	4806.6
60°	4250.6	4214.9	4270.6	4672.0	5155.6	5250.3	5605.3	5807.6	6190.5	6072.6	4841.8
62.5°	4415.8	4390.7	4476.6	4966.7	5591.4	5695.4	6009.0	6182.6	6521.8	6154.8	4714.7
65°	4560.2	4564.3	4712.8	5298.1	6077.3	6188.2	6472.2	6644.9	6782.7	6106.1	4417.2
67.5°	4732.3	4756.0	5009.4	5734.3	6689.0	6810.5	7146.1	7148.9	6928.4	5820.2	3831.5
70°	4983.4	5032.1	5417.3	6339.5	7558.6	7725.8	7984.7	7445.0	6723.7	5045.1	3014.7
72.5°	5206.2	5297.1	5851.3	7031.9	8618.7	8745.3	8475.2	7274.2	5868.4	3781.0	1878.1
74°	5115.7	5228.5	5930.1	7373.0	9017.7	9078.6	8309.6	6775.8	4892.9	2618.4	1091.6
75°	4920.7	5043.3	5815.0	7369.7	8967.2	8933.3	7909.5	6206.3	4029.7	1785.8	726.3
77.5°	3971.2	4100.7	4899.9	6316.3	7352.6	7320.6	6075.9	4163.4	1764.9	585.7	369.0
80°	2308.8	2407.7	3041.7	4011.1	4957.8	5015.9	3995.8	2060.1	694.3	329.1	250.2
82.5°	1025.6	1093.8	1469.3	2047.6	2992.0	3066.7	2092.6	1079.5	428.8	200.0	150.4
85°	672.9	723.5	892.0	975.1	1424.8	1475.8	1024.2	840.5	283.1	110.0	110.5
87.5°	484.1	532.7	662.7	578.8	653.9	619.1	557.3	777.8	113.7	62.7	37.1
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°	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4	2321.4
2.5°	2299.5	2292.1	2275.4	2243.8	2226.3	2211.4	2186.8	2172.4	2165.9	2165.5	2168.2
5°	2242.5	2225.3	2182.1	2129.2	2087.1	2048.5	2000.7	1971.9	1951.5	1939.5	1942.7
7.5°	2176.1	2149.2	2081.4	1997.0	1929.2	1854.6	1780.7	1736.7	1702.3	1676.7	1681.4
10°	2130.6	2093.5	1994.7	1873.1	1760.3	1651.7	1550.1	1489.3	1441.0	1403.8	1406.6
12.5°	2115.3	2065.2	1928.3	1765.9	1607.6	1459.1	1326.3	1233.0	1183.4	1141.2	1144.5
15°	2117.7	2050.3	1872.6	1669.3	1470.2	1283.2	1122.2	1013.1	945.8	916.6	917.0
17.5°	2119.5	2033.2	1814.2	1565.9	1334.2	1118.9	944.0	833.5	769.9	743.0	743.4
20°	2113.4	2005.3	1741.7	1447.0	1192.3	968.1	798.7	704.9	656.7	635.8	635.8
22.5°	2105.6	1972.4	1660.1	1327.7	1052.1	837.2	694.8	623.3	595.4	581.5	581.0
25°	2109.3	1947.8	1576.5	1205.2	923.0	732.8	625.6	578.3	559.7	550.9	550.4
27.5°	2129.2	1936.2	1499.5	1083.2	810.3	654.4	579.2	545.8	533.7	528.1	528.1
30°	2165.5	1936.2	1419.2	979.2	716.6	596.3	543.4	520.7	512.3	508.7	508.7
32.5°	2228.5	1946.9	1341.6	876.2	641.8	550.9	513.8	498.4	492.0	490.1	490.1
35°	2337.1	1983.1	1266.0	778.8	581.5	513.8	485.5	476.6	472.0	471.5	472.9
37.5°	2489.9	2056.9	1195.0	706.8	538.8	483.6	461.8	454.9	452.0	454.4	456.2
40°	2682.0	2157.1	1130.6	641.8	506.3	459.5	439.9	435.3	433.9	437.2	439.9
42.5°	2914.0	2292.6	1077.6	594.9	481.3	439.1	421.4	415.9	414.5	418.1	421.9
45°	3165.1	2438.3	1040.5	560.2	461.8	423.8	405.2	399.1	396.3	398.2	402.3
47.5°	3393.5	2576.2	1025.6	535.5	443.2	410.7	390.8	383.4	378.7	377.7	381.0
50°	3586.0	2678.8	1032.6	520.7	428.4	396.3	376.9	368.5	361.6	357.3	359.7
52.5°	3726.2	2743.2	1039.1	514.2	416.7	380.5	361.6	353.7	344.4	337.4	337.4
55°	3827.8	2758.1	1024.7	509.2	408.0	363.4	344.4	337.0	327.7	319.8	318.8
57.5°	3867.8	2716.4	971.3	501.6	401.9	347.1	326.3	320.7	312.8	303.5	303.0
60°	3813.9	2587.3	868.3	485.9	394.0	333.7	308.1	304.5	300.7	291.9	291.5
62.5°	3597.6	2304.2	735.1	453.9	378.2	319.3	291.5	293.3	293.7	287.7	286.8
65°	3205.5	1915.3	605.2	412.1	354.5	302.1	274.3	283.1	288.2	287.3	285.9
67.5°	2635.6	1490.6	512.8	368.1	323.4	278.4	255.7	265.9	270.1	273.4	272.4
70°	1956.1	1051.2	424.1	321.6	285.9	250.6	231.6	236.7	233.9	237.6	239.0
72.5°	1090.6	630.7	345.8	275.2	246.9	218.1	204.7	203.8	197.7	197.7	197.7
74°	654.4	462.7	304.0	246.4	223.2	196.8	185.2	181.0	175.4	175.9	175.4
75°	526.2	397.7	278.9	227.4	206.5	184.2	172.7	167.1	162.9	162.9	162.4
77.5°	332.3	302.1	224.6	181.0	165.2	151.7	143.9	136.4	136.4	136.0	135.6
80°	251.1	240.4	175.0	136.9	126.7	116.5	111.4	108.1	108.1	109.5	109.1
82.5°	172.2	181.0	123.0	95.6	90.5	83.0	82.1	82.6	81.3	79.4	78.9
85°	125.8	136.0	83.0	60.3	55.2	50.5	54.3	56.2	53.8	49.7	47.8
87.5°	48.3	89.1	44.5	25.1	23.2	19.9	23.2	24.1	26.0	20.4	20.9
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)