

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: P387059

Luminaire Tested: GAW-SA2D-735-U-SL3

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387059  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2D-735-U-SL3  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15212.6 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

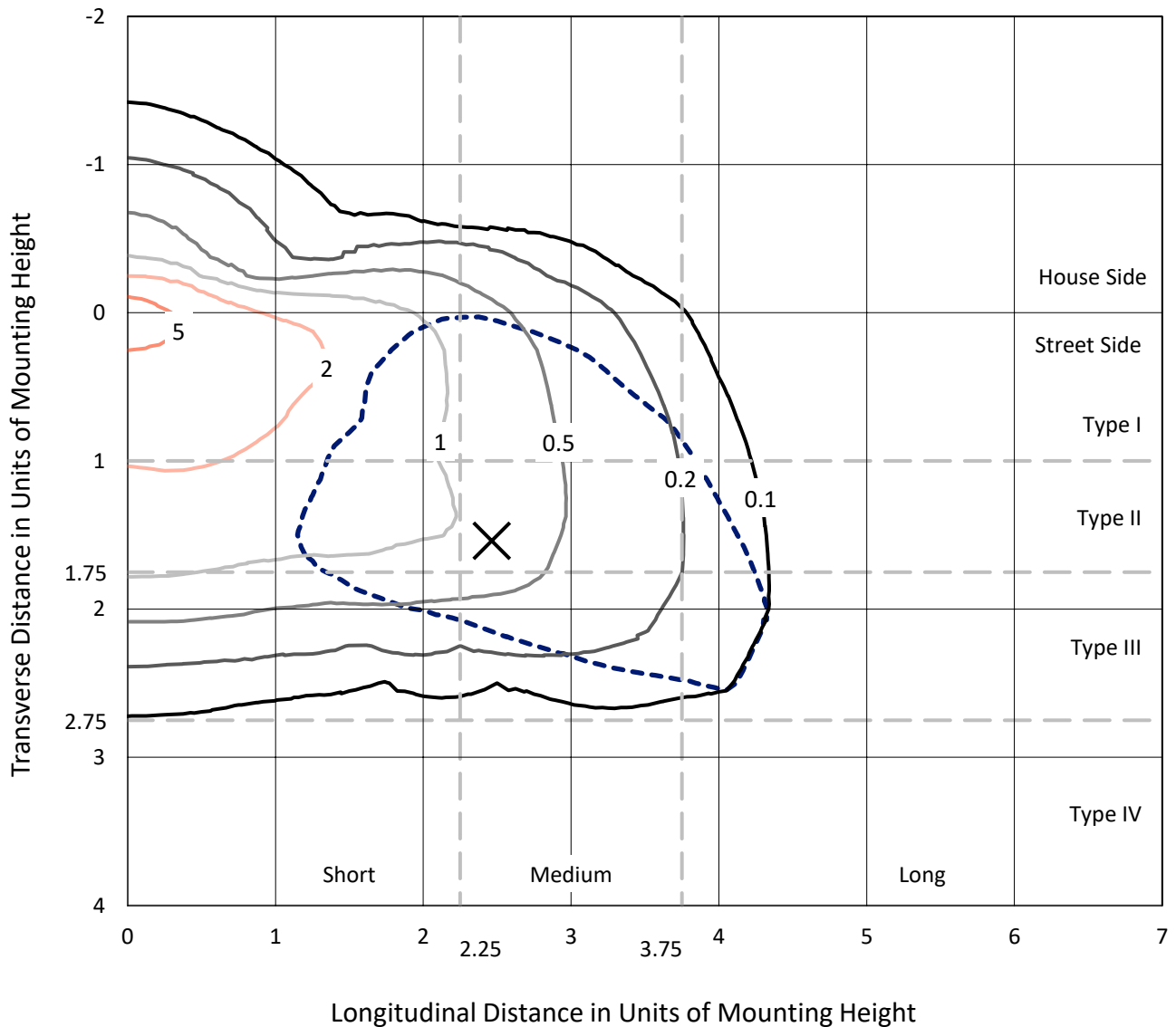
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

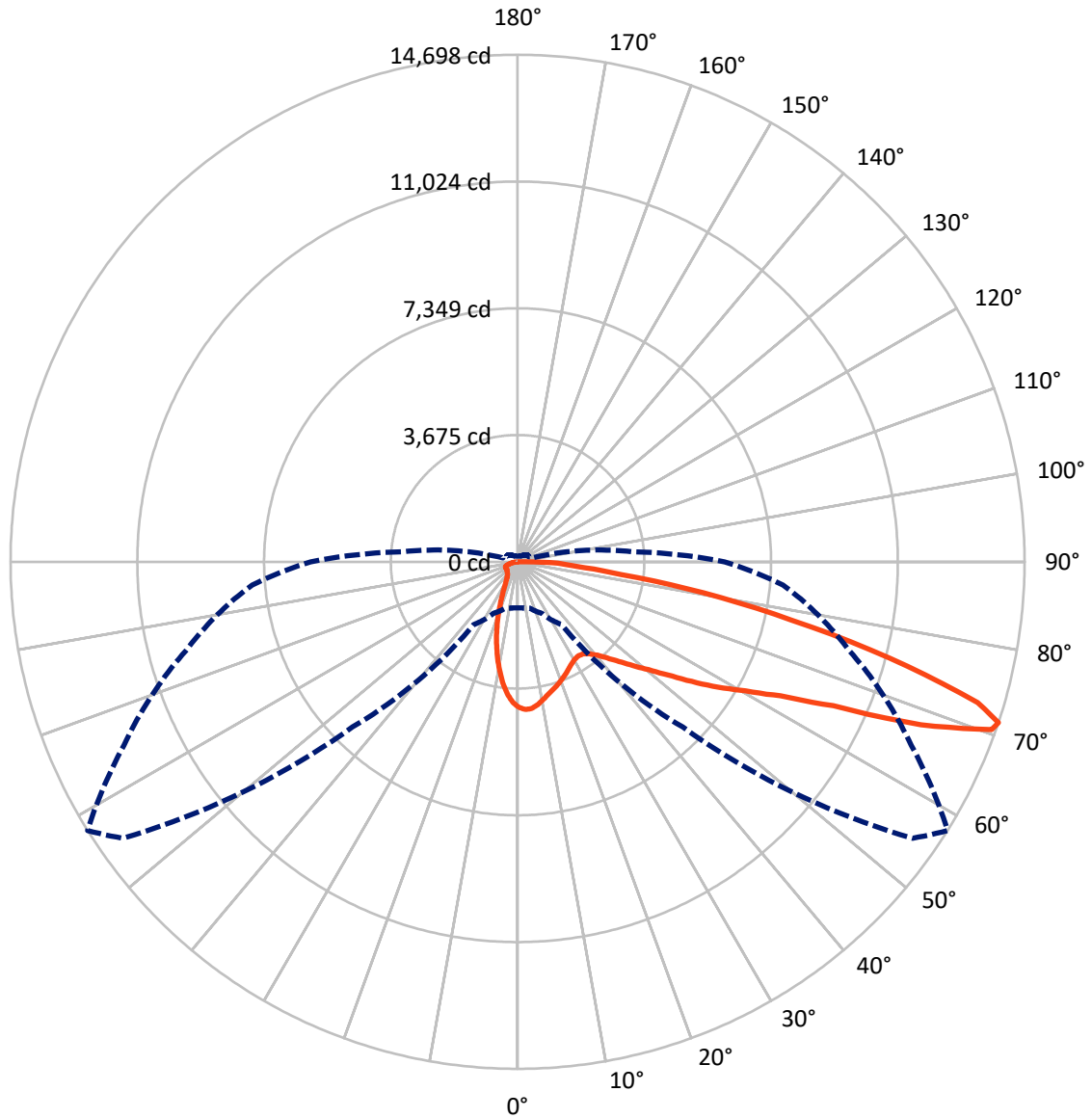
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 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 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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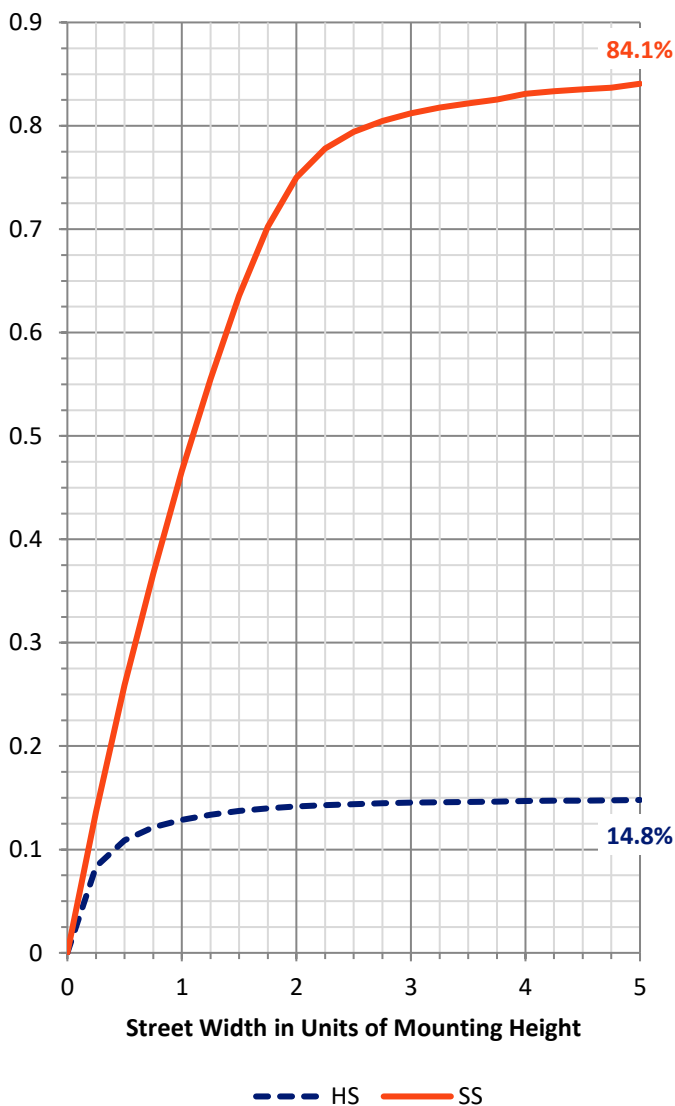
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2274.4	0.0	2274.4
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	12938.2	0.0	12938.2
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	15212.6	0.0	15212.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.6	2.4
10°-20°	808.5	5.3
20°-30°	1027.6	6.8
30°-40°	1308.9	8.6
40°-50°	1856.1	12.2
50°-60°	2872.4	18.9
60°-70°	3910.5	25.7
70°-80°	2608.7	17.1
80°-90°	456.1	3.0
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°	15212.6	100.0
0°-180°	15212.6	100.0

**Coefficient of Utilization**

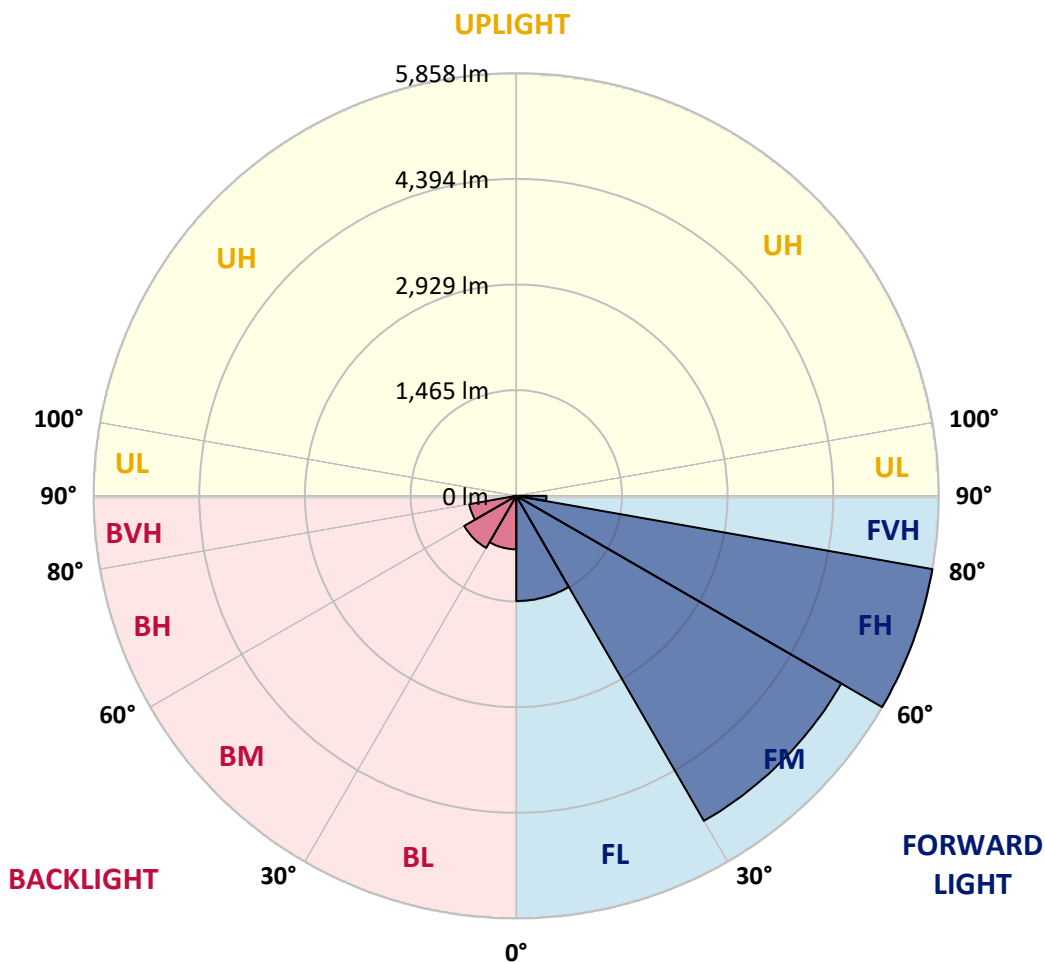


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1458.4	9.6			
FM (30°-60°)	5203.4	34.2			
FH (60°-80°)	5858.2	38.5			G3/7500
FVH (80°-90°)	418.2	2.7			G3/500
BL (0°-30°)	741.4	4.9	B2/1000		
BM (30°-60°)	834.1	5.5	B1/1000		
BH (60°-80°)	661.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	37.9	0.2			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°	58°	65°	75°	85°
0°	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9
2.5°	4326.7	4320.8	4323.0	4318.8	4308.7	4298.6	4283.8	4286.5	4265.8	4235.1	4196.8
5°	4245.1	4243.0	4258.8	4267.9	4275.3	4269.5	4265.2	4270.6	4240.3	4198.0	4131.7
7.5°	4074.0	4050.7	4070.8	4100.9	4129.6	4151.3	4179.9	4183.6	4164.5	4120.0	4033.1
10°	3830.8	3808.5	3838.1	3885.3	3942.5	3994.5	4052.2	4062.8	4066.5	4026.2	3920.7
12.5°	3578.4	3561.5	3591.2	3657.4	3752.3	3832.3	3924.5	3940.4	3973.3	3946.2	3816.9
15°	3352.7	3346.4	3382.4	3447.6	3556.7	3679.1	3812.2	3841.3	3897.0	3888.0	3735.9
17.5°	3157.7	3156.2	3183.7	3252.1	3372.9	3527.6	3700.4	3749.6	3832.3	3842.9	3669.1
20°	3012.5	3009.3	3028.4	3078.8	3203.3	3378.7	3579.6	3647.4	3766.6	3803.7	3600.2
22.5°	2934.7	2934.1	2934.7	2958.4	3060.3	3223.4	3461.9	3544.5	3702.4	3772.4	3523.9
25°	2921.4	2919.8	2908.2	2905.5	2963.2	3093.6	3345.3	3436.5	3641.6	3750.7	3451.3
27.5°	2955.8	2958.0	2942.6	2917.7	2929.3	3008.3	3244.1	3341.6	3592.8	3746.5	3401.0
30°	3027.4	3026.4	3013.1	2987.1	2964.4	2976.5	3172.1	3269.6	3559.9	3765.0	3366.5
32.5°	3106.3	3112.1	3109.5	3095.2	3061.3	3012.5	3150.4	3245.7	3550.3	3809.5	3351.7
35°	3201.2	3207.6	3226.6	3237.7	3198.0	3119.5	3196.9	3279.6	3578.0	3893.2	3375.5
37.5°	3291.3	3307.7	3361.2	3408.4	3374.5	3287.0	3320.9	3379.8	3663.3	4025.2	3439.6
40°	3395.2	3409.4	3496.9	3597.0	3591.7	3501.1	3520.8	3559.9	3813.8	4214.4	3555.7
42.5°	3497.4	3526.0	3652.6	3794.7	3835.5	3755.4	3786.7	3807.4	4025.7	4465.0	3758.1
45°	3633.6	3664.3	3840.2	4011.4	4106.7	4061.8	4111.5	4119.5	4292.3	4806.3	4052.2
47.5°	3839.7	3874.7	4079.8	4259.4	4405.1	4409.9	4492.0	4488.9	4625.0	5196.8	4422.6
50°	4160.9	4211.2	4379.2	4547.1	4724.1	4822.7	4932.4	4917.0	5024.1	5612.8	4849.2
52.5°	4581.6	4604.9	4729.5	4853.5	5073.4	5294.3	5451.7	5438.0	5476.6	6040.4	5333.5
55°	5017.7	5035.2	5086.6	5154.5	5450.1	5810.4	6143.3	6121.5	6023.5	6484.4	5812.0
57.5°	5409.9	5445.4	5480.8	5508.9	5829.5	6349.9	6850.6	6852.2	6617.0	6963.5	6306.4
60°	5470.7	5502.0	5736.8	5958.3	6478.6	7069.5	7607.9	7592.0	7231.2	7483.4	6857.6
62.5°	4835.9	4906.5	5298.6	5887.8	7104.0	8385.8	8573.9	8554.3	7965.6	8124.1	7499.3
65°	3465.6	3545.6	4018.8	4904.3	6800.8	9836.2	10317.4	10053.4	8967.1	8912.0	8250.7
67.5°	1999.3	2018.4	2223.5	2934.7	5178.2	9911.9	12976.9	12607.6	10522.4	9806.0	8618.5
70°	1478.4	1477.9	1526.7	1805.9	2802.1	8089.6	14241.8	14573.0	12159.8	10100.1	8098.6
71°	1336.9	1338.5	1393.1	1643.8	2219.2	6771.2	13973.2	14698.0	12591.2	9954.9	7722.4
72.5°	1143.5	1148.9	1224.6	1474.2	1866.9	4669.5	12815.9	13947.7	12795.7	9596.7	7133.7
75°	867.4	879.6	984.6	1242.6	1706.3	2368.1	9405.9	11137.6	11367.0	8468.0	5300.7
77.5°	619.0	632.7	751.4	1045.0	1622.1	1784.8	6299.0	8124.1	8365.1	5426.8	2390.9
80°	391.1	407.5	497.0	831.5	1524.0	1694.7	3958.4	5460.7	4561.4	1736.5	608.4
82.5°	229.5	242.2	308.4	543.2	1244.8	1632.1	2328.9	3026.8	1775.2	524.7	276.7
85°	133.0	138.8	192.4	346.1	904.0	1540.4	1711.1	1692.0	770.5	256.5	130.9
87.5°	62.0	68.9	113.9	180.7	501.8	1116.6	1352.4	1168.4	479.0	120.2	61.4
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°	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9
2.5°	4178.3	4169.3	4131.7	4098.3	4063.3	4017.8	3967.4	3961.0	3930.3	3936.2	3925.5
5°	4095.7	4072.8	3982.3	3900.1	3803.1	3716.2	3621.9	3578.4	3516.0	3511.7	3495.8
7.5°	3977.5	3935.1	3794.7	3638.8	3483.1	3334.8	3187.9	3091.5	2992.9	2951.1	2947.3
10°	3844.5	3772.4	3565.8	3335.2	3110.5	2893.8	2683.9	2528.8	2388.8	2322.6	2319.9
12.5°	3718.4	3611.9	3328.4	3014.6	2707.3	2426.5	2138.7	1934.7	1759.3	1700.5	1675.6
15°	3611.3	3461.4	3097.3	2696.2	2323.1	1933.1	1605.6	1391.1	1228.8	1172.6	1162.1
17.5°	3507.5	3314.6	2860.5	2374.5	1923.6	1494.9	1166.8	1007.3	921.0	898.2	897.7
20°	3404.2	3163.6	2613.0	2045.4	1537.2	1118.1	897.1	825.6	796.4	793.8	789.6
22.5°	3287.0	3003.5	2352.8	1715.3	1199.7	879.1	762.5	733.9	730.2	739.8	739.8
25°	3177.3	2844.6	2088.9	1392.1	933.2	733.4	681.0	675.1	685.2	702.1	703.7
27.5°	3075.0	2691.4	1831.3	1104.8	747.7	645.9	624.2	631.1	649.1	668.8	669.3
30°	2990.8	2546.7	1581.3	870.6	631.6	580.7	577.1	590.9	610.4	625.8	629.5
32.5°	2925.6	2423.3	1339.6	700.0	555.8	532.1	535.2	546.8	559.0	567.5	573.4
35°	2895.4	2317.3	1116.6	590.3	507.6	494.4	498.6	505.0	510.3	516.7	521.5
37.5°	2900.8	2235.2	917.3	521.9	475.3	468.5	468.5	468.5	468.5	471.6	472.1
40°	2950.0	2188.0	755.1	478.5	453.6	446.2	440.4	435.0	430.8	433.0	431.8
42.5°	3076.1	2183.7	636.4	450.9	436.2	423.9	412.3	404.9	399.5	401.7	402.7
45°	3290.2	2236.7	556.4	431.4	419.7	401.1	386.3	378.4	374.6	381.5	382.6
47.5°	3567.3	2352.2	507.6	417.0	404.3	380.0	364.0	356.6	357.7	367.8	370.4
50°	3924.5	2539.8	484.4	408.1	393.7	361.9	345.5	339.1	342.3	356.6	359.8
52.5°	4316.6	2810.1	487.0	405.3	386.8	348.7	331.2	323.8	329.1	342.3	344.9
55°	4769.2	3134.9	530.9	409.1	376.8	340.2	319.5	306.8	311.0	323.2	325.4
57.5°	5272.1	3506.9	619.4	408.1	364.0	332.3	307.4	288.3	291.5	298.9	301.0
60°	5795.6	3956.3	756.7	411.2	358.2	322.7	290.9	267.1	266.0	272.3	273.5
62.5°	6424.0	4476.1	913.6	413.3	361.9	310.6	269.2	245.8	242.7	244.2	245.4
65°	7071.7	4852.3	854.8	404.9	373.6	300.4	250.2	225.2	219.3	218.3	218.9
67.5°	7091.8	4449.2	599.3	387.9	378.4	295.2	235.8	207.7	198.2	194.5	194.0
70°	6360.0	3614.5	466.9	369.8	359.3	286.7	222.5	193.4	179.1	173.3	172.8
71°	6002.8	3327.3	442.5	360.8	344.9	278.2	216.7	187.0	172.2	165.9	164.8
72.5°	5442.7	2982.9	412.8	346.5	317.4	256.5	205.6	178.0	162.7	155.3	153.7
75°	3906.0	1950.6	354.5	309.0	262.8	204.5	180.2	160.1	146.8	137.8	136.7
77.5°	1504.9	776.3	268.1	257.0	201.4	160.1	148.3	138.3	128.8	119.8	119.2
80°	465.3	347.1	195.6	193.4	145.7	119.2	115.5	112.9	109.2	99.7	97.5
82.5°	248.6	199.2	134.6	125.0	95.3	79.5	83.7	84.8	85.3	75.2	74.2
85°	118.7	105.5	75.8	71.0	55.6	44.5	51.4	55.6	56.2	46.1	42.9
87.5°	56.7	55.1	35.5	27.1	20.7	14.8	18.0	22.3	24.3	17.5	15.4
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)