

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: P387087

Luminaire Tested: GAW-SA2D-750-U-SL3

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387087  
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-750-U-SL3  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5000K, 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: 16194 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

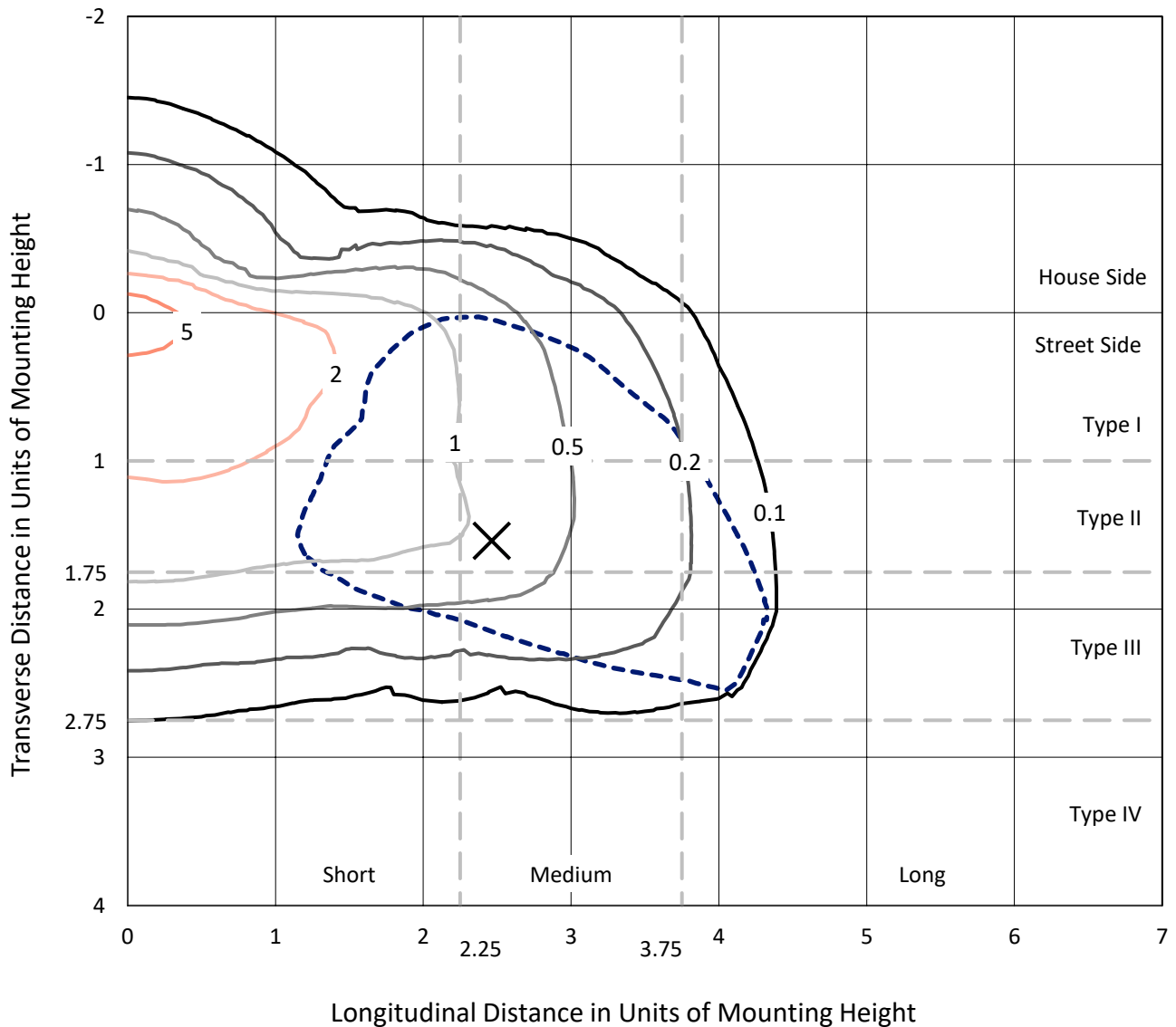
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

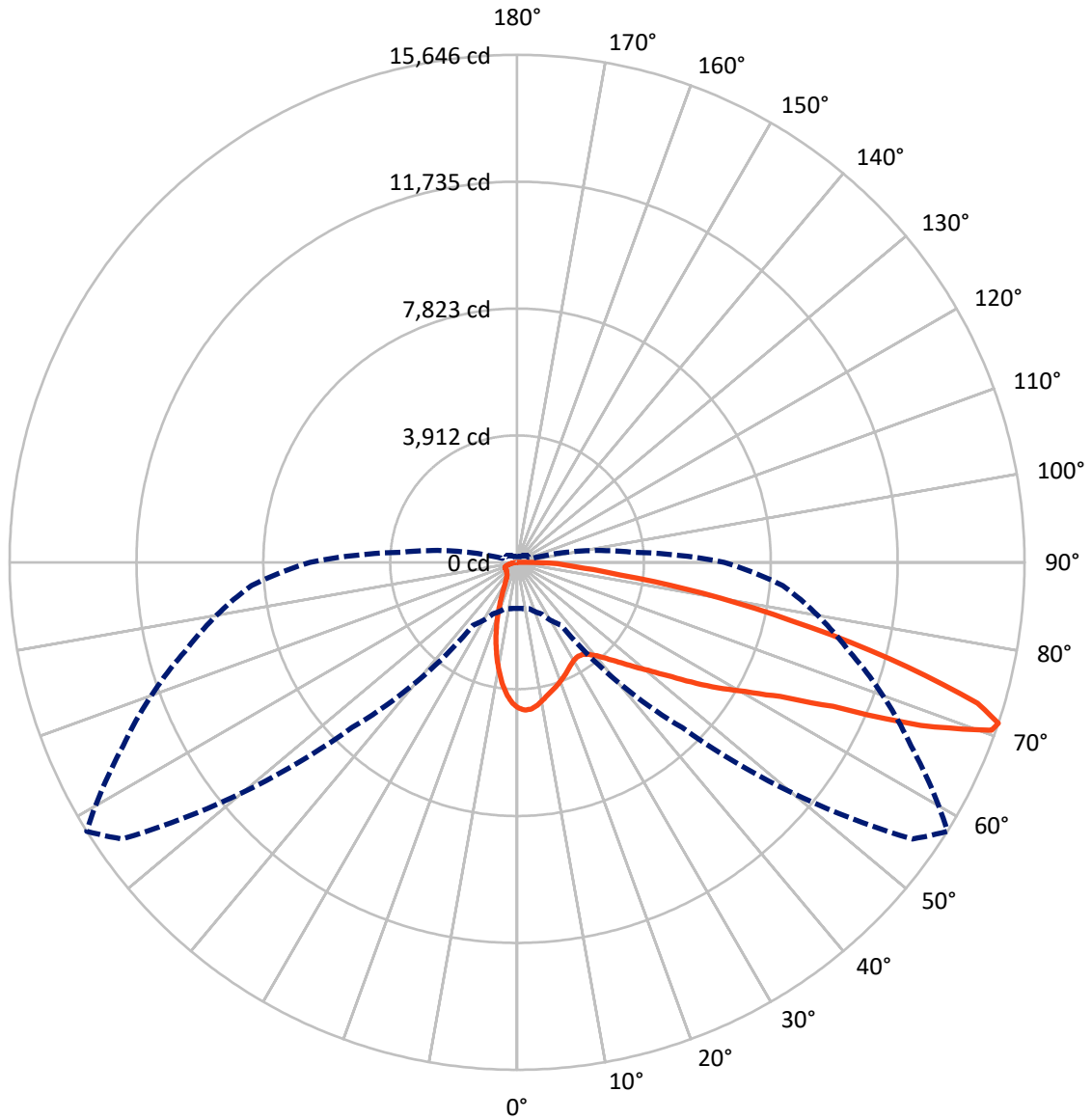
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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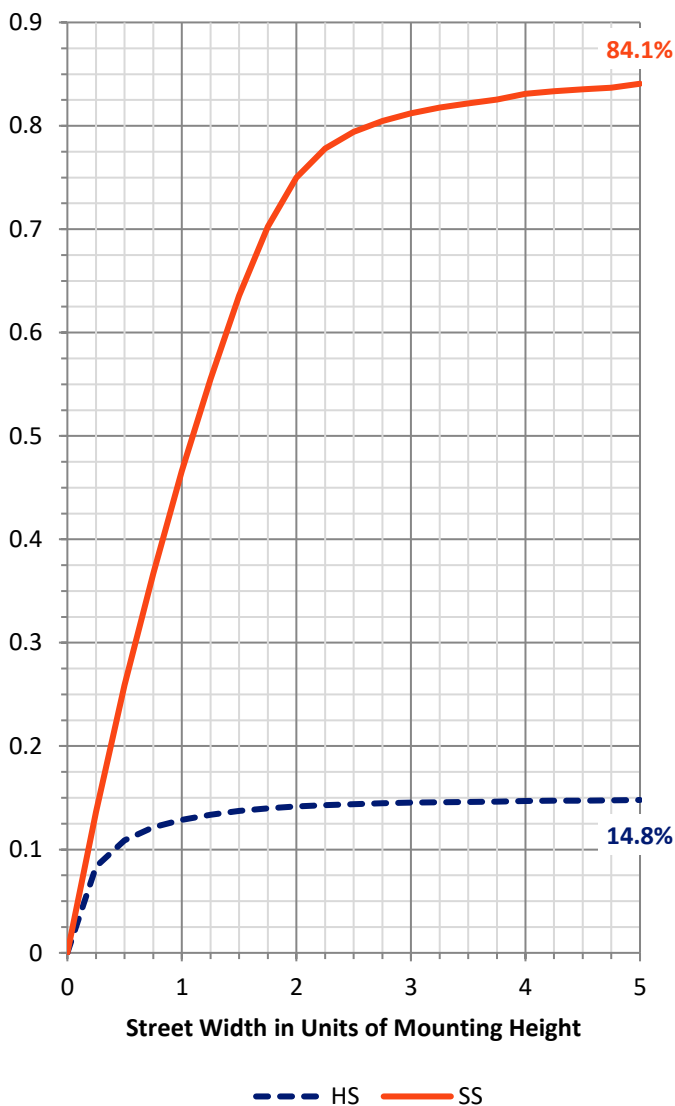
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2421.1	0.0	2421.1
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	13772.9	0.0	13772.9
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	16194.0	0.0	16194.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.1	2.4
10°-20°	860.7	5.3
20°-30°	1093.9	6.8
30°-40°	1393.4	8.6
40°-50°	1975.9	12.2
50°-60°	3057.8	18.9
60°-70°	4162.8	25.7
70°-80°	2777.0	17.1
80°-90°	485.5	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°	16194.0	100.0
0°-180°	16194.0	100.0

**Coefficient of Utilization**

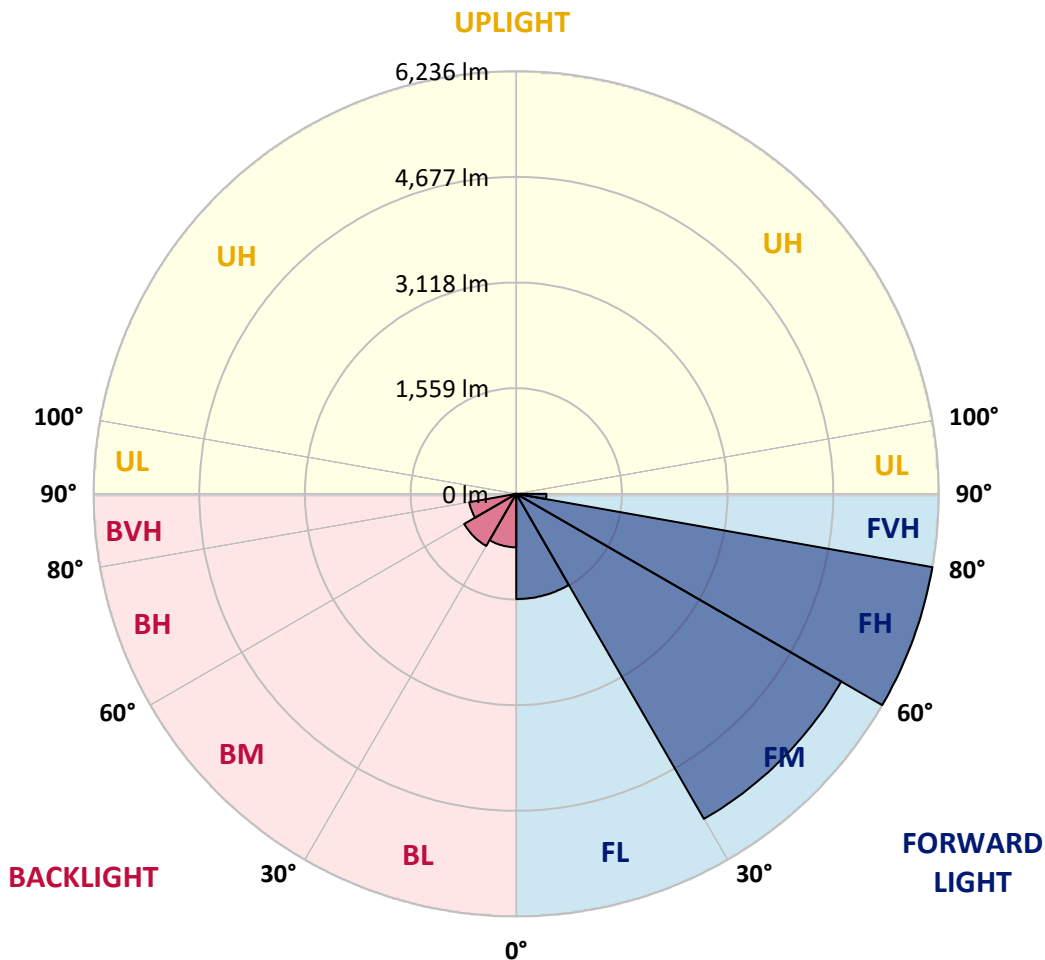


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1552.5	9.6			
FM (30°-60°)	5539.1	34.2			
FH (60°-80°)	6236.1	38.5			G3/7500
FVH (80°-90°)	445.2	2.7			G3/500
BL (0°-30°)	789.2	4.9	B2/1000		
BM (30°-60°)	887.9	5.5	B1/1000		
BH (60°-80°)	703.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	40.3	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°	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8
2.5°	4605.8	4599.6	4601.9	4597.4	4586.7	4575.9	4560.2	4563.0	4541.0	4508.3	4467.6
5°	4519.0	4516.7	4533.6	4543.2	4551.1	4544.9	4540.4	4546.1	4513.9	4468.8	4398.3
7.5°	4336.8	4312.0	4333.4	4365.5	4396.0	4419.1	4449.6	4453.5	4433.2	4385.8	4293.3
10°	4077.9	4054.2	4085.7	4136.0	4196.9	4252.2	4313.6	4324.9	4328.9	4286.0	4173.7
12.5°	3809.3	3791.3	3822.9	3893.4	3994.4	4079.5	4177.7	4194.6	4229.6	4200.8	4063.2
15°	3569.0	3562.3	3600.6	3670.0	3786.2	3916.5	4058.1	4089.1	4148.4	4138.8	3976.9
17.5°	3361.4	3359.8	3389.1	3461.9	3590.5	3755.2	3939.1	3991.5	4079.5	4090.8	3905.8
20°	3206.9	3203.5	3223.8	3277.4	3410.0	3596.7	3810.5	3882.7	4009.6	4049.1	3832.5
22.5°	3124.0	3123.4	3124.0	3149.3	3257.7	3431.4	3685.2	3773.2	3941.3	4015.8	3751.2
25°	3109.9	3108.2	3095.8	3092.9	3154.4	3293.2	3561.1	3658.2	3876.5	3992.7	3674.0
27.5°	3146.5	3148.8	3132.4	3105.9	3118.3	3202.4	3453.4	3557.2	3824.6	3988.2	3620.4
30°	3222.7	3221.6	3207.5	3179.8	3155.6	3168.5	3376.7	3480.5	3789.6	4007.9	3583.7
32.5°	3306.7	3312.9	3310.1	3294.9	3258.8	3206.9	3353.6	3455.1	3779.4	4055.3	3567.9
35°	3407.7	3414.5	3434.8	3446.6	3404.3	3320.8	3403.2	3491.2	3808.8	4144.4	3593.3
37.5°	3503.6	3521.1	3578.1	3628.3	3592.2	3499.1	3535.2	3597.8	3899.6	4284.9	3661.5
40°	3614.2	3629.4	3722.5	3829.1	3823.4	3727.0	3747.9	3789.6	4059.8	4486.3	3785.1
42.5°	3723.0	3753.5	3888.3	4039.5	4082.9	3997.7	4031.0	4053.0	4285.4	4753.1	4000.6
45°	3868.0	3900.7	4088.0	4270.2	4371.7	4323.8	4376.8	4385.3	4569.2	5116.4	4313.6
47.5°	4087.4	4124.7	4343.0	4534.2	4689.3	4694.4	4781.8	4778.5	4923.4	5532.1	4707.9
50°	4429.3	4482.9	4661.7	4840.5	5028.9	5133.8	5250.6	5234.2	5348.2	5974.9	5162.0
52.5°	4877.2	4902.0	5034.6	5166.6	5400.7	5635.9	5803.4	5788.8	5829.9	6430.1	5677.6
55°	5341.4	5360.0	5414.8	5487.0	5801.7	6185.3	6539.6	6516.4	6412.1	6902.8	6187.0
57.5°	5758.9	5796.7	5834.4	5864.3	6205.6	6759.6	7292.6	7294.3	7043.9	7412.8	6713.3
60°	5823.7	5857.0	6106.9	6342.7	6896.6	7525.6	8098.7	8081.8	7697.7	7966.2	7300.0
62.5°	5147.9	5223.0	5640.4	6267.7	7562.3	8926.8	9127.1	9106.2	8479.5	8648.2	7983.1
65°	3689.2	3774.4	4278.1	5220.7	7239.6	10470.8	10983.0	10702.0	9545.6	9487.0	8783.0
67.5°	2128.3	2148.6	2366.9	3124.0	5512.3	10551.4	13814.1	13421.0	11201.3	10438.6	9174.5
70°	1573.8	1573.3	1625.2	1922.4	2982.9	8611.5	15160.6	15513.2	12944.3	10751.7	8621.1
71°	1423.2	1424.9	1483.0	1749.8	2362.4	7208.0	14874.7	15646.3	13403.5	10597.1	8220.6
72.5°	1217.3	1223.0	1303.6	1569.3	1987.3	4970.8	13642.7	14847.6	13621.2	10215.8	7593.9
75°	923.4	936.4	1048.1	1322.8	1816.4	2520.9	10012.7	11856.2	12100.4	9014.3	5642.7
77.5°	658.9	673.5	799.9	1112.4	1726.7	1899.9	6705.4	8648.2	8904.8	5776.9	2545.2
80°	416.3	433.8	529.1	885.1	1622.3	1804.0	4213.8	5813.0	4855.7	1848.5	647.6
82.5°	244.3	257.8	328.3	578.2	1325.1	1737.4	2479.2	3222.1	1889.7	558.5	294.5
85°	141.6	147.8	204.8	368.4	962.3	1639.8	1821.5	1801.2	820.2	273.0	139.3
87.5°	66.0	73.3	121.3	192.4	534.2	1188.6	1439.6	1243.8	509.9	128.0	65.4
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°	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8
2.5°	4447.9	4438.3	4398.3	4362.7	4325.5	4277.0	4223.4	4216.6	4183.9	4190.1	4178.8
5°	4359.9	4335.6	4239.2	4151.7	4048.5	3956.0	3855.6	3809.3	3742.8	3738.3	3721.3
7.5°	4234.1	4189.0	4039.5	3873.6	3707.8	3549.9	3393.6	3290.9	3186.0	3141.5	3137.5
10°	4092.5	4015.8	3795.8	3550.4	3311.2	3080.5	2857.1	2691.9	2542.9	2472.4	2469.6
12.5°	3958.3	3844.9	3543.1	3209.1	2882.0	2583.0	2276.7	2059.5	1872.8	1810.2	1783.7
15°	3844.3	3684.7	3297.1	2870.1	2473.0	2057.8	1709.2	1480.8	1308.1	1248.3	1237.1
17.5°	3733.8	3528.4	3045.0	2527.7	2047.7	1591.3	1242.1	1072.3	980.4	956.1	955.6
20°	3623.8	3367.7	2781.6	2177.4	1636.4	1190.2	955.0	878.9	847.8	845.0	840.5
22.5°	3499.1	3197.3	2504.6	1826.0	1277.1	935.8	811.7	781.3	777.3	787.5	787.5
25°	3382.3	3028.1	2223.7	1481.9	993.4	780.7	724.9	718.7	729.4	747.4	749.1
27.5°	3273.4	2865.0	1949.5	1176.1	795.9	687.6	664.5	671.8	691.0	711.9	712.5
30°	3183.8	2711.0	1683.3	926.8	672.4	618.2	614.3	629.0	649.8	666.2	670.1
32.5°	3114.4	2579.6	1426.0	745.2	591.7	566.4	569.7	582.1	595.1	604.1	610.4
35°	3082.2	2466.8	1188.6	628.4	540.4	526.3	530.8	537.6	543.2	550.0	555.1
37.5°	3087.9	2379.4	976.5	555.6	506.0	498.7	498.7	498.7	498.7	502.0	502.6
40°	3140.3	2329.2	803.8	509.4	482.9	475.0	468.8	463.1	458.6	460.9	459.7
42.5°	3274.6	2324.6	677.5	480.0	464.3	451.3	438.9	431.0	425.3	427.6	428.7
45°	3502.5	2381.0	592.3	459.2	446.8	427.0	411.2	402.8	398.8	406.1	407.3
47.5°	3797.5	2504.0	540.4	443.9	430.4	404.5	387.5	379.6	380.8	391.5	394.3
50°	4177.7	2703.7	515.6	434.4	419.1	385.3	367.8	361.0	364.4	379.6	383.0
52.5°	4595.1	2991.4	518.4	431.5	411.8	371.2	352.6	344.7	350.3	364.4	367.2
55°	5076.9	3337.2	565.2	435.5	401.1	362.1	340.1	326.6	331.1	344.1	346.4
57.5°	5612.2	3733.2	659.4	434.4	387.5	353.7	327.2	306.9	310.3	318.2	320.4
60°	6169.5	4211.5	805.5	437.7	381.3	343.5	309.7	284.3	283.2	289.9	291.1
62.5°	6838.5	4764.9	972.5	440.0	385.3	330.6	286.6	261.7	258.4	260.0	261.2
65°	7527.9	5165.4	909.9	431.0	397.7	319.8	266.3	239.7	233.5	232.4	233.0
67.5°	7549.3	4736.2	638.0	412.9	402.8	314.2	251.0	221.1	211.0	207.0	206.5
70°	6770.3	3847.7	497.0	393.7	382.5	305.2	236.9	205.9	190.7	184.5	183.9
71°	6390.1	3542.0	471.0	384.1	367.2	296.2	230.7	199.1	183.3	176.6	175.4
72.5°	5793.8	3175.3	439.4	368.9	337.9	273.0	218.9	189.5	173.2	165.3	163.6
75°	4158.0	2076.4	377.4	328.9	279.8	217.7	191.8	170.4	156.3	146.7	145.5
77.5°	1602.0	826.4	285.4	273.6	214.4	170.4	157.9	147.2	137.1	127.5	126.9
80°	495.3	369.5	208.2	205.9	155.1	126.9	123.0	120.2	116.2	106.1	103.8
82.5°	264.6	212.1	143.3	133.1	101.5	84.6	89.1	90.3	90.8	80.1	79.0
85°	126.4	112.3	80.7	75.6	59.2	47.4	54.7	59.2	59.8	49.1	45.7
87.5°	60.4	58.7	37.8	28.8	22.0	15.8	19.2	23.7	25.9	18.6	16.4
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)