

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P383028

Luminaire Tested: **GAN-SA3D-735-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3D-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17909.9 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

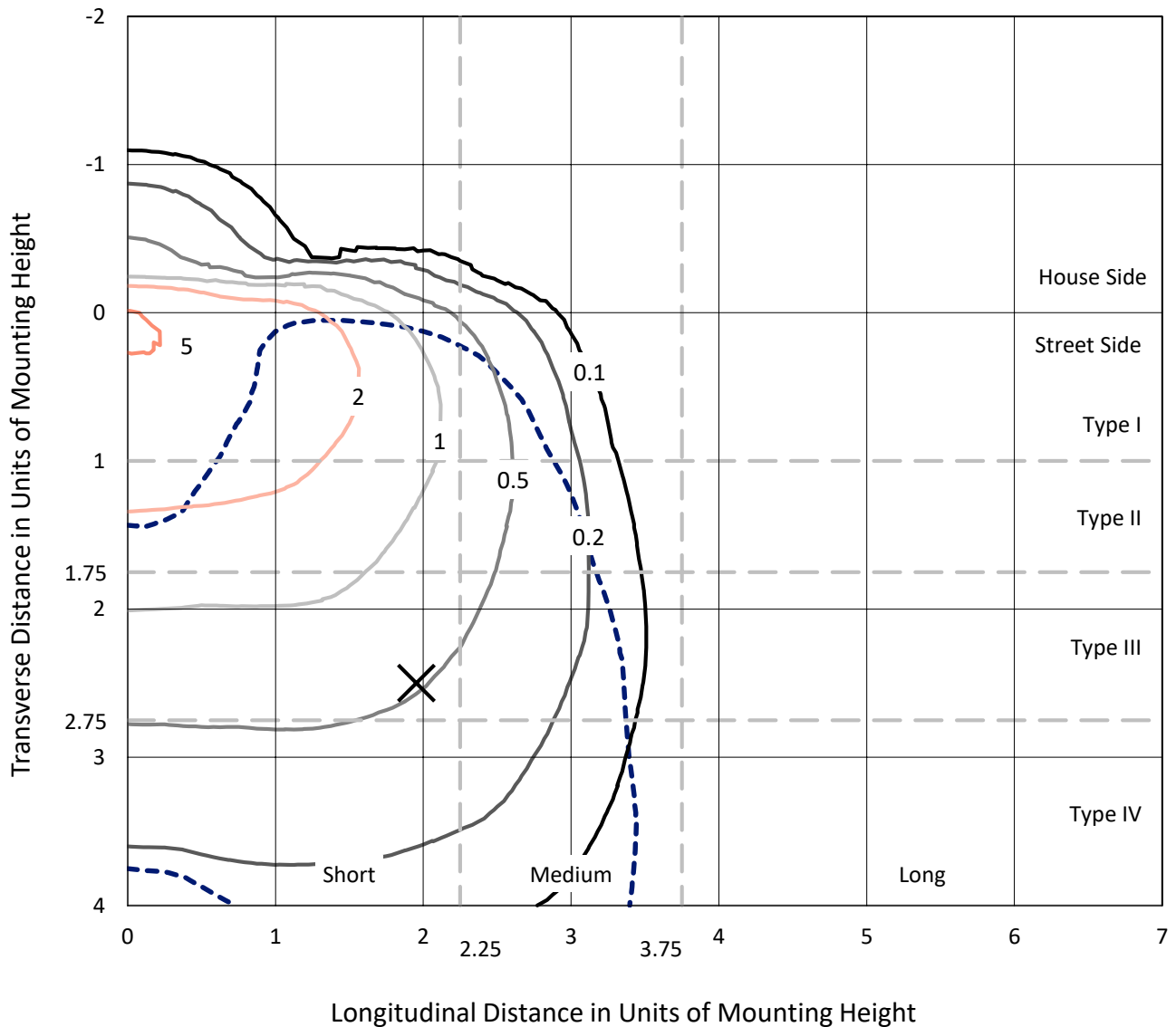
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

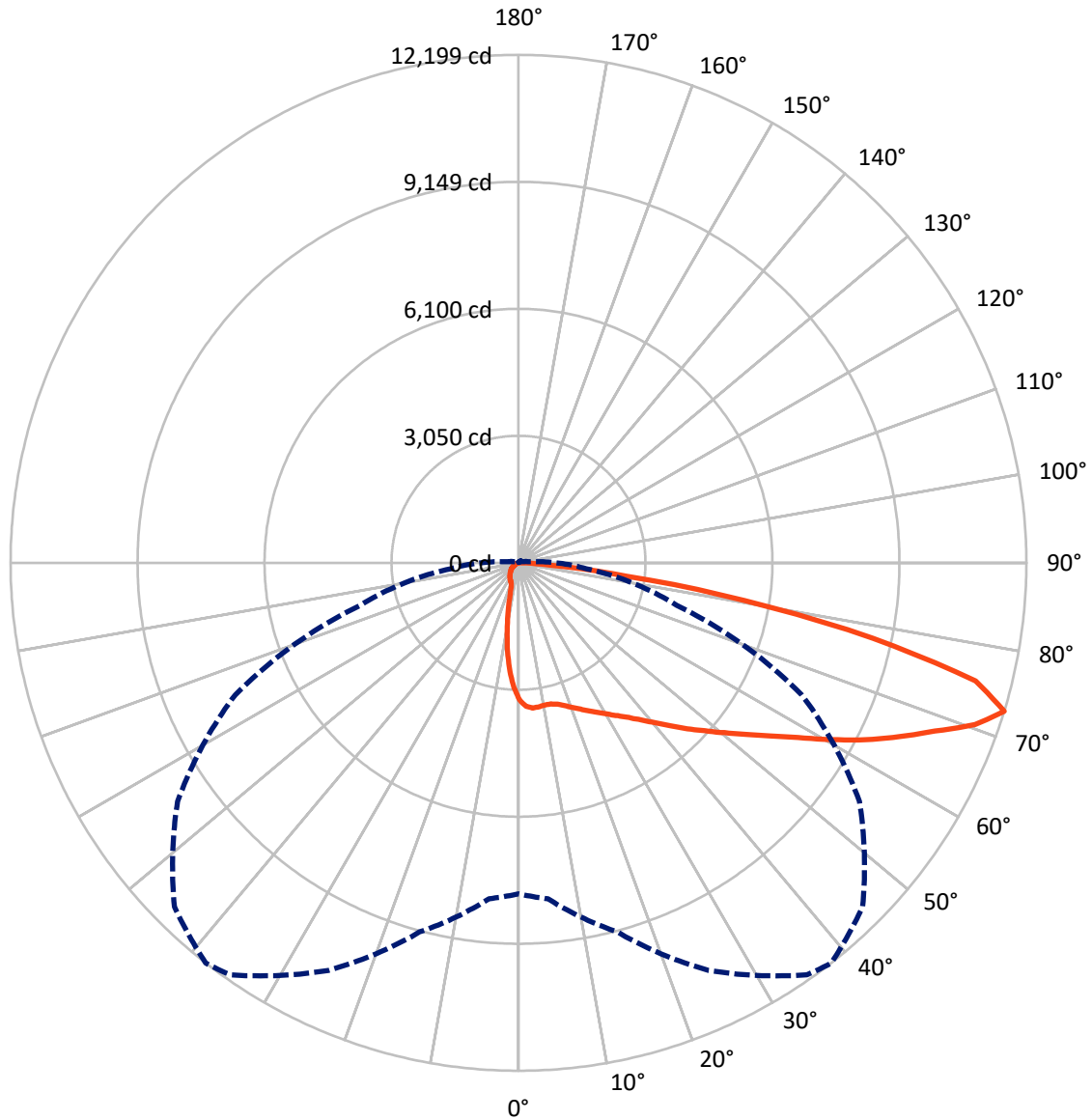
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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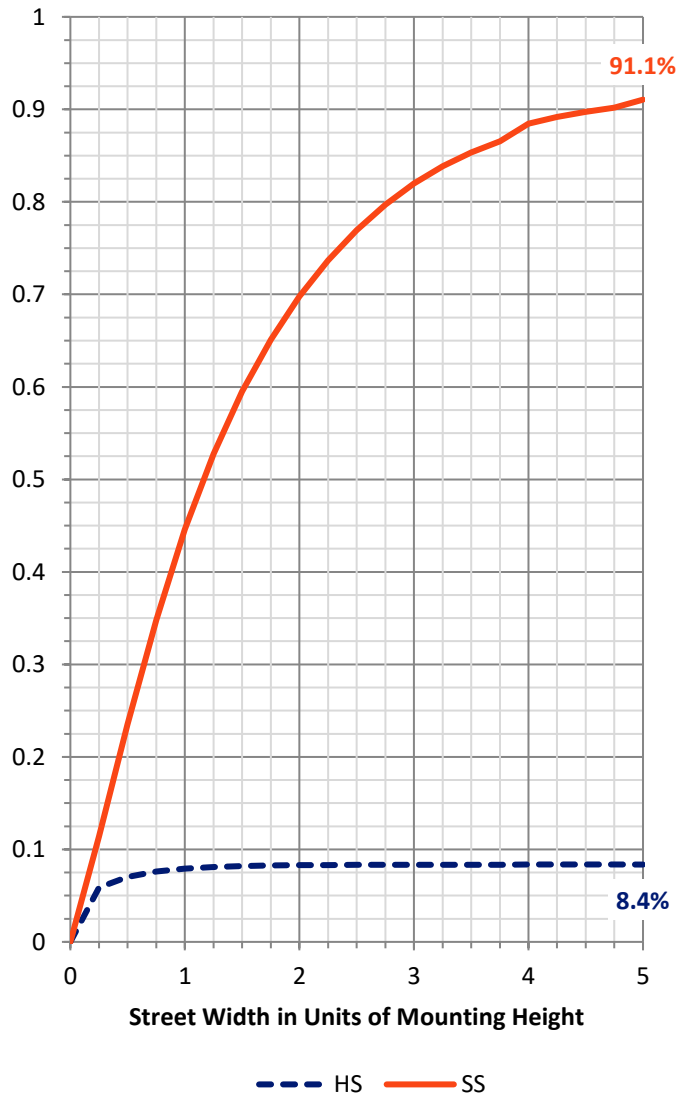
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1507.2	0.0	1507.2
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	16402.7	0.0	16402.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	17909.9	0.0	17909.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.7	1.6
10°-20°	686.3	3.8
20°-30°	1091.6	6.1
30°-40°	1641.1	9.2
40°-50°	2503.6	14.0
50°-60°	3538.4	19.8
60°-70°	4438.3	24.8
70°-80°	3318.6	18.5
80°-90°	411.5	2.3
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°	17909.9	100.0
0°-180°	17909.9	100.0

**Coefficient of Utilization**

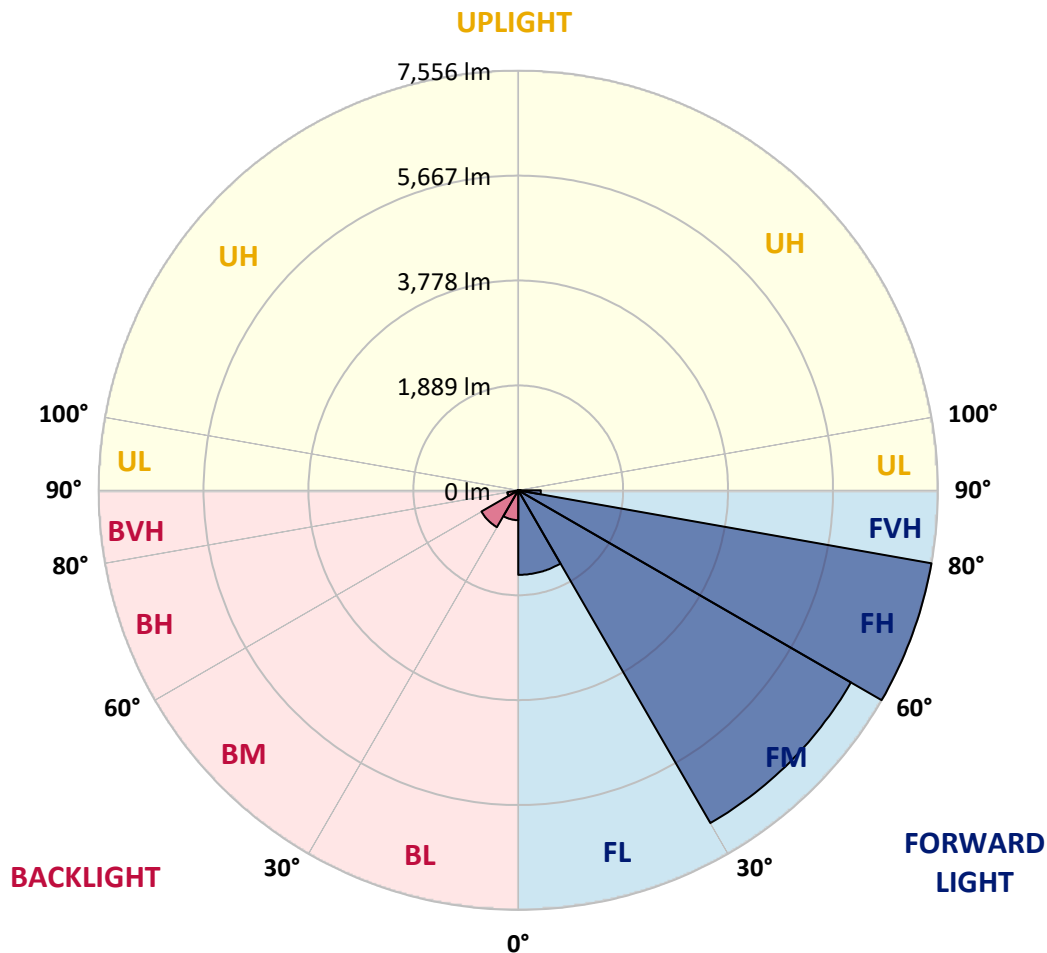


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1521.9	8.5			
FM (30°-60°)	6917.6	38.6			
FH (60°-80°)	7555.6	42.2			G4/12000
FVH (80°-90°)	407.7	2.3			G3/500
BL (0°-30°)	536.7	3.0	B2/1000		
BM (30°-60°)	765.4	4.3	B1/1000		
BH (60°-80°)	201.3	1.1	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6
2.5°	3495.9	3496.7	3488.5	3475.0	3458.0	3449.1	3434.2	3410.4	3385.1	3339.7	3290.6
5°	3567.3	3567.3	3556.9	3539.0	3511.5	3503.4	3475.0	3437.1	3385.1	3311.5	3228.8
7.5°	3559.8	3561.3	3547.2	3528.6	3501.1	3493.7	3459.5	3417.0	3352.4	3263.1	3157.5
10°	3521.2	3524.9	3513.7	3504.9	3479.5	3471.3	3439.4	3397.0	3332.2	3237.0	3115.8
12.5°	3481.8	3485.5	3489.2	3497.4	3481.8	3478.8	3453.5	3417.8	3356.1	3257.2	3120.3
15°	3456.5	3463.9	3490.7	3522.6	3526.4	3523.4	3507.1	3473.6	3411.1	3308.5	3152.3
17.5°	3456.5	3468.3	3524.1	3585.2	3606.8	3608.9	3594.8	3548.0	3473.6	3363.5	3182.0
20°	3485.5	3501.9	3588.9	3675.1	3710.8	3710.8	3683.3	3617.9	3530.8	3413.4	3202.1
22.5°	3559.8	3581.4	3690.8	3790.5	3828.4	3820.2	3783.0	3687.8	3590.4	3469.8	3227.3
25°	3706.3	3722.7	3836.6	3937.0	3960.0	3941.5	3894.6	3772.6	3666.2	3546.5	3273.5
27.5°	3895.4	3897.6	4015.1	4099.8	4085.8	4073.1	4014.3	3879.0	3775.6	3655.8	3353.1
30°	4102.8	4102.8	4206.2	4271.0	4227.8	4217.4	4158.6	4007.6	3915.4	3804.5	3466.1
32.5°	4303.7	4312.6	4396.6	4437.5	4389.2	4378.8	4321.5	4170.5	4101.3	4031.5	3642.4
35°	4497.8	4504.5	4584.1	4606.4	4560.3	4563.3	4522.4	4394.4	4368.4	4359.5	3907.9
37.5°	4686.0	4687.5	4768.6	4782.7	4759.6	4784.9	4788.6	4675.5	4723.9	4796.1	4282.1
40°	4857.8	4859.3	4939.6	4976.0	5015.5	5048.2	5077.2	5016.9	5176.9	5344.3	4727.6
42.5°	4995.4	5011.1	5112.9	5182.1	5286.3	5348.8	5427.6	5424.6	5716.2	5967.6	5266.1
45°	5116.6	5143.4	5285.5	5406.7	5585.3	5685.0	5808.4	5905.1	6323.1	6661.5	5811.4
47.5°	5276.6	5301.9	5464.0	5662.6	5900.6	6031.5	6236.1	6445.1	6990.3	7342.8	6343.9
50°	5501.9	5490.8	5650.7	5935.5	6241.3	6413.1	6704.7	7017.8	7652.3	7936.4	6657.1
52.5°	5742.2	5737.8	5856.0	6232.3	6643.0	6843.8	7229.1	7609.9	8285.3	8345.5	6800.7
55°	6039.7	6007.7	6107.4	6570.8	7119.7	7335.5	7789.1	8196.0	8789.5	8576.1	6872.8
57.5°	6351.4	6298.6	6393.8	6947.9	7657.5	7912.7	8409.5	8767.3	9125.1	8733.8	6872.0
60°	6673.4	6610.9	6724.0	7419.5	8325.4	8620.7	9081.8	9153.3	9438.2	8813.4	6821.4
62.5°	6942.7	6905.5	7073.6	7923.7	9071.5	9361.6	9589.9	9504.4	9702.3	8875.1	6703.2
65°	7227.6	7229.8	7501.3	8512.1	9864.3	10060.0	10079.3	9959.5	9923.1	8862.5	6303.0
67.5°	7612.9	7648.6	8101.6	9311.0	10635.7	10786.7	10785.2	10452.7	10084.6	8359.6	5415.6
70°	8020.4	8104.6	8793.3	10225.1	11477.7	11630.9	11552.0	10766.6	9495.5	6759.7	3832.9
72.5°	7952.1	8097.9	9177.8	10801.6	12082.4	12199.2	11686.7	9995.3	7505.0	3928.8	1631.9
75°	6134.9	6303.8	8415.4	10230.3	11448.0	11343.1	10041.4	7778.0	4101.3	1096.3	367.4
77.5°	3240.8	3330.7	5559.2	7793.6	8926.5	8707.0	7073.6	4314.8	1250.3	271.5	165.2
80°	1697.4	1718.2	2422.6	4422.0	5509.4	5510.8	4192.1	1895.2	515.4	139.1	110.9
82.5°	908.9	926.8	1280.1	2043.3	2886.7	2616.7	1605.1	1042.8	299.8	78.8	106.4
85°	218.6	222.4	726.0	933.5	1135.1	810.7	476.8	875.5	81.0	46.1	86.3
87.5°	84.0	85.5	269.2	403.9	289.3	187.4	223.1	326.5	10.4	17.9	13.4
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°	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6	3293.6
2.5°	3260.9	3241.5	3193.9	3133.6	3080.1	3041.4	2983.4	2945.5	2920.2	2919.5	2909.8
5°	3178.3	3138.8	3036.2	2914.3	2803.4	2703.7	2586.3	2493.3	2424.1	2412.9	2389.1
7.5°	3089.8	3025.1	2867.4	2677.0	2491.1	2302.0	2082.7	1946.6	1829.7	1773.9	1768.0
10°	3035.4	2944.7	2720.9	2445.6	2154.1	1846.9	1559.8	1361.2	1217.6	1176.7	1146.2
12.5°	3024.4	2904.6	2607.8	2228.4	1812.0	1405.8	1088.2	877.0	762.4	726.0	716.3
15°	3035.4	2885.9	2512.6	2013.4	1465.3	997.4	730.4	607.6	564.5	554.2	553.4
17.5°	3042.2	2863.7	2404.7	1774.7	1129.1	712.5	559.3	523.6	516.9	516.2	517.7
20°	3041.4	2829.5	2276.1	1508.5	839.8	560.0	505.8	498.4	496.9	497.6	496.9
22.5°	3036.2	2789.2	2134.7	1234.0	634.5	500.6	482.7	478.3	477.5	477.5	477.5
25°	3045.9	2757.3	1979.3	971.4	522.9	473.0	461.9	458.2	457.5	457.5	456.0
27.5°	3080.8	2739.4	1809.0	747.6	472.3	448.5	439.6	438.9	436.6	435.9	437.4
30°	3137.4	2739.4	1622.2	581.7	441.8	423.2	416.5	415.0	414.3	413.5	414.3
32.5°	3237.0	2760.3	1418.5	483.5	412.8	395.0	390.5	392.7	390.5	390.5	390.5
35°	3417.0	2822.8	1205.0	421.7	382.3	367.4	363.0	365.9	364.4	364.4	363.7
37.5°	3679.6	2938.8	990.0	384.5	355.6	339.9	334.0	338.4	336.9	336.9	336.2
40°	3999.4	3107.6	785.5	356.3	329.5	313.2	308.0	310.2	306.5	306.5	308.0
42.5°	4394.4	3321.8	606.9	328.7	303.5	287.8	284.9	282.6	275.9	272.2	272.9
45°	4833.2	3545.0	473.0	302.0	278.9	266.3	261.9	255.9	244.7	237.3	238.0
47.5°	5225.2	3716.8	384.5	275.9	256.6	247.0	240.2	229.1	212.8	203.8	204.6
50°	5431.3	3742.9	327.3	249.9	235.8	226.1	216.5	199.4	180.0	170.3	169.5
52.5°	5484.1	3620.8	284.9	226.1	215.0	203.8	191.2	168.1	146.5	136.1	134.6
55°	5503.4	3434.9	247.0	203.8	192.6	180.0	163.7	137.6	117.6	107.1	106.4
57.5°	5439.5	3157.5	217.2	183.7	170.3	154.7	134.6	110.1	90.7	82.5	82.5
60°	5297.4	2781.9	194.1	162.2	147.3	129.4	108.6	85.5	67.7	61.0	61.0
62.5°	5014.0	2295.4	172.5	139.8	125.7	107.1	87.8	64.7	47.6	43.9	44.6
65°	4479.2	1741.2	151.0	119.8	107.1	88.5	68.5	46.1	32.0	32.0	33.4
67.5°	3652.9	1209.4	128.6	101.9	92.2	72.2	52.1	32.0	22.4	25.2	28.2
70°	2418.1	678.4	110.1	84.0	78.8	57.3	38.7	21.6	17.9	23.8	29.0
72.5°	912.6	264.1	92.2	67.7	68.5	43.9	27.5	16.4	16.4	26.0	34.2
75°	254.4	129.4	66.2	49.8	53.6	32.0	20.1	14.2	15.6	29.7	40.1
77.5°	149.5	95.2	43.1	29.0	36.4	22.4	13.4	11.2	13.4	25.2	38.7
80°	120.5	50.6	25.2	14.9	20.1	12.7	8.9	6.7	3.7	9.7	20.1
82.5°	120.5	30.5	11.9	10.4	10.4	6.7	4.5	3.0	0.7	0.0	5.2
85°	81.0	12.7	7.5	6.7	5.2	2.2	1.5	0.7	0.0	0.0	0.0
87.5°	13.4	5.2	3.0	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
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)