

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: McGRAW-EDISON

Report Number: P323969

Luminaire Tested: **GLEON-SA5C-827-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323969  
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: McGRAW-EDISON  
Catalog Number: GLEON-SA5C-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA 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: 21091 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

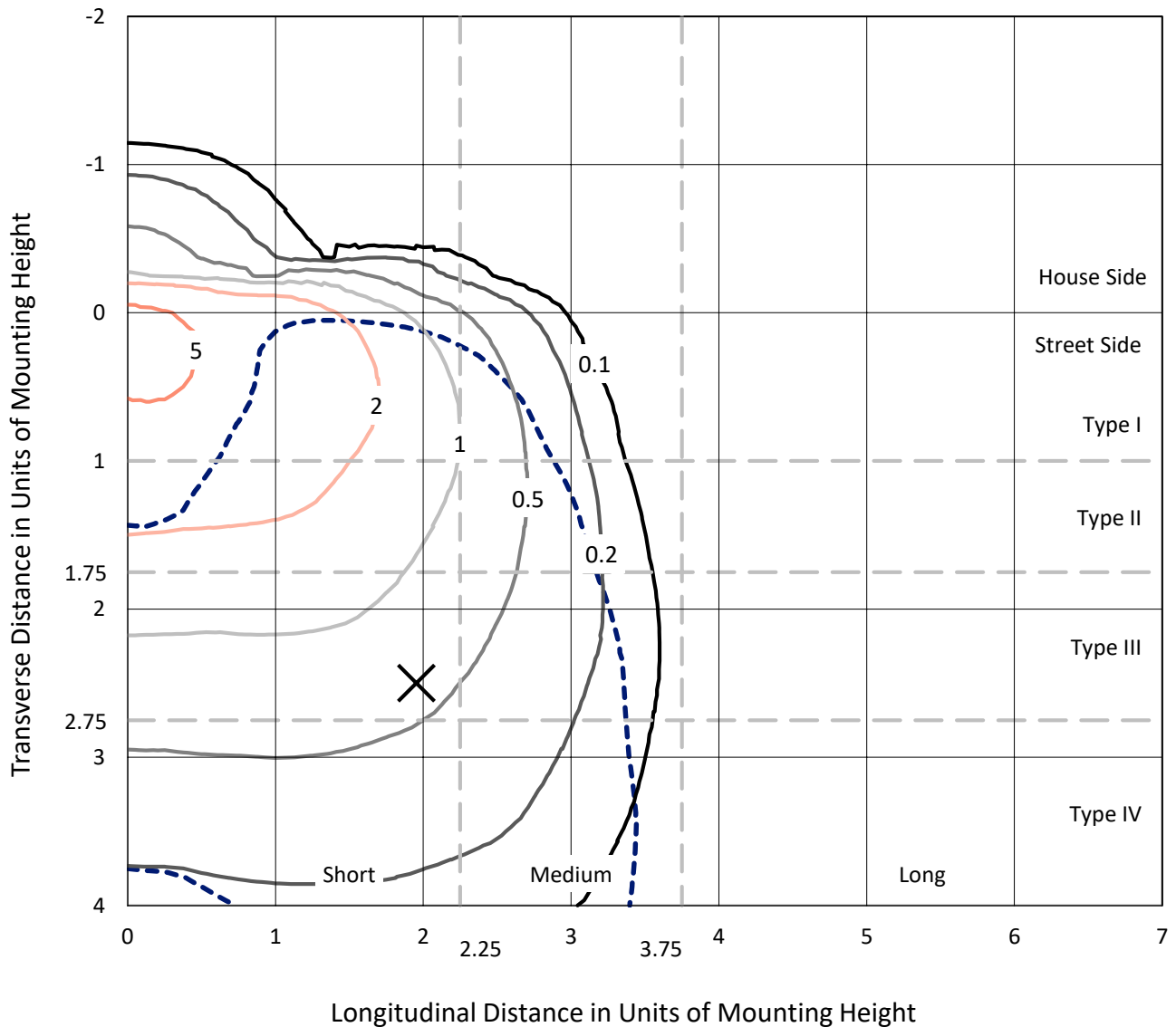
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

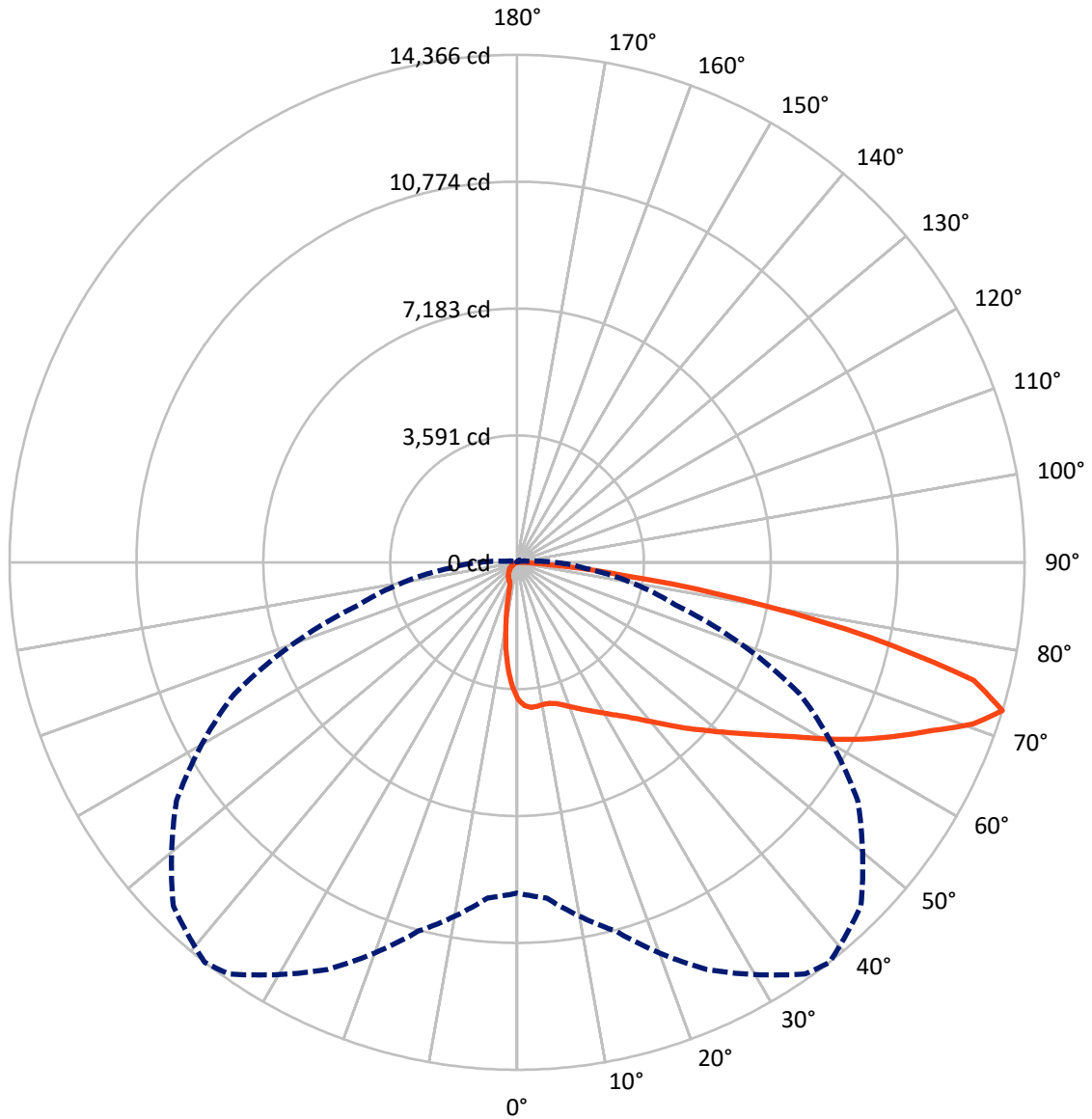
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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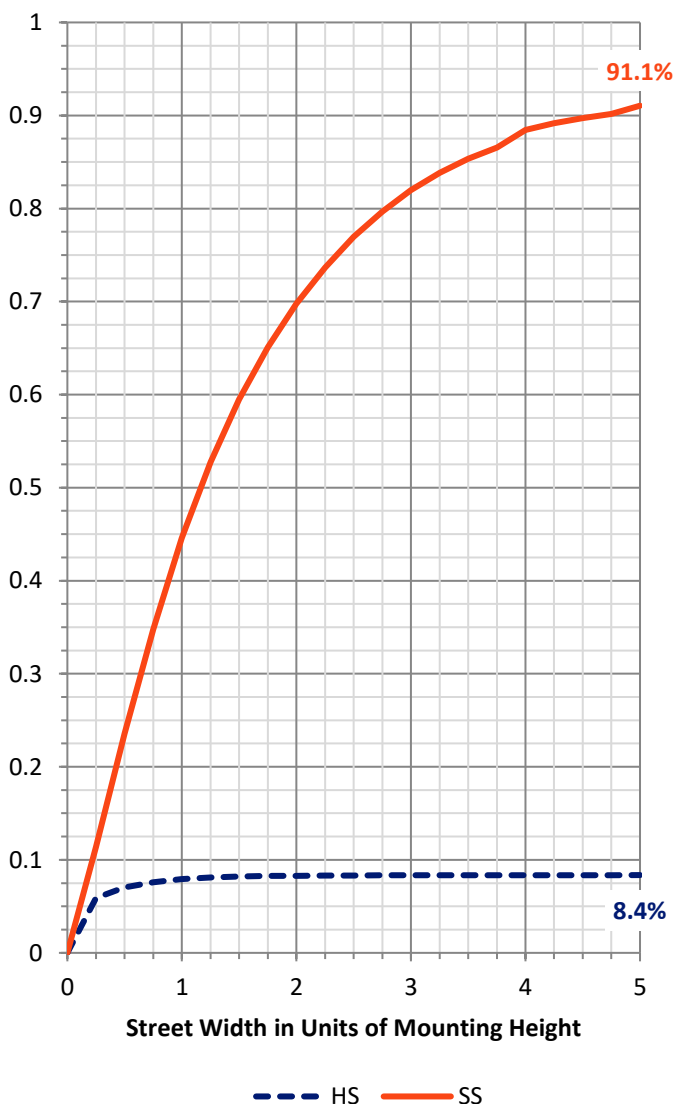
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1774.9	0.0	1774.9
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	19316.1	0.0	19316.1
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	21091.0	0.0	21091.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.5	1.6
10°-20°	808.2	3.8
20°-30°	1285.5	6.1
30°-40°	1932.5	9.2
40°-50°	2948.2	14.0
50°-60°	4166.8	19.8
60°-70°	5226.6	24.8
70°-80°	3908.0	18.5
80°-90°	484.6	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°	21091.0	100.0
0°-180°	21091.0	100.0

**Coefficient of Utilization**



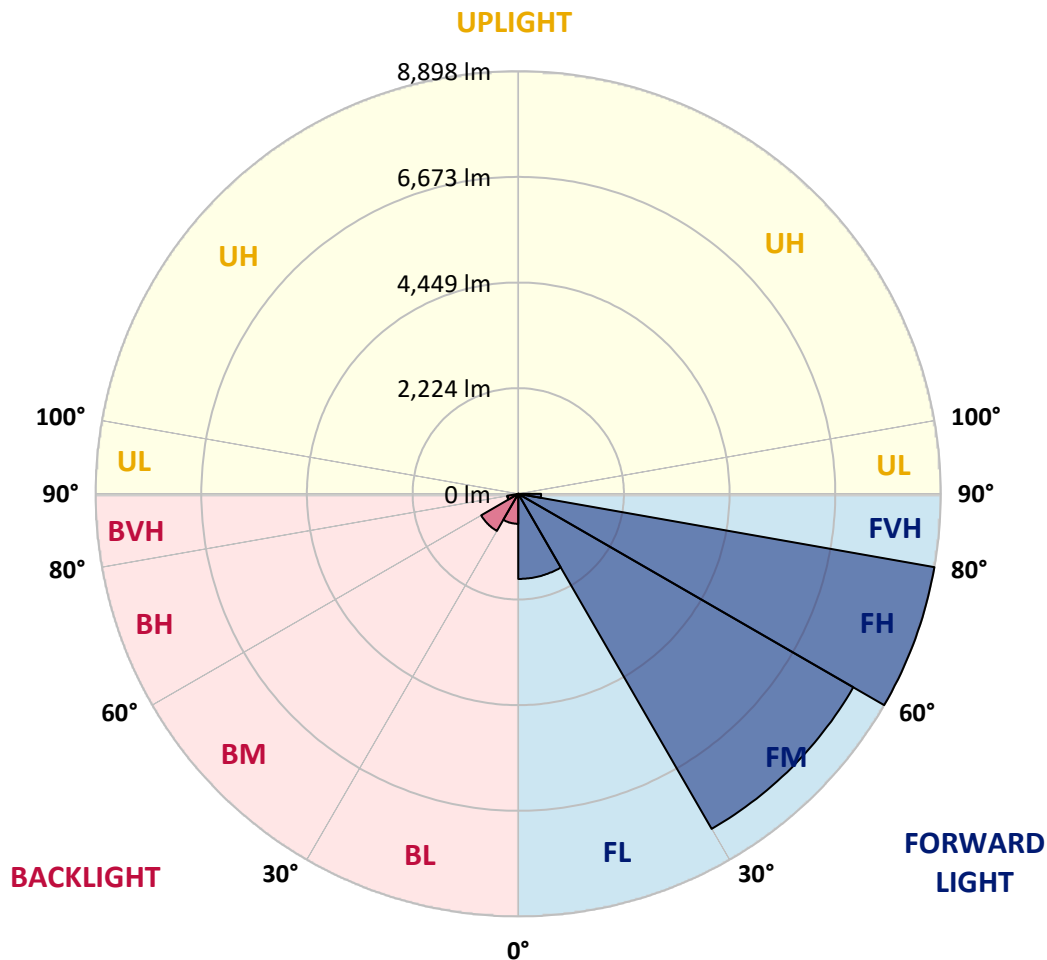
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1792.2	8.5			
FM (30°-60°)	8146.3	38.6			
FH (60°-80°)	8897.5	42.2			G4/12000
FVH (80°-90°)	480.1	2.3			G3/500
BL (0°-30°)	632.0	3.0	B2/1000		
BM (30°-60°)	901.3	4.3	B1/1000		
BH (60°-80°)	237.1	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	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°	3878.6	3878.6	3878.6	3878.6	3878.6	3878.6	3878.6	3878.6	3878.6	3878.6	3878.6
2.5°	4116.8	4117.7	4108.1	4092.3	4072.1	4061.6	4044.1	4016.1	3986.3	3932.9	3875.1
5°	4200.9	4200.9	4188.6	4167.6	4135.2	4125.6	4092.3	4047.6	3986.3	3899.6	3802.4
7.5°	4192.1	4193.9	4177.3	4155.4	4122.9	4114.2	4073.9	4024.0	3947.8	3842.7	3718.3
10°	4146.6	4151.0	4137.8	4127.3	4097.5	4087.9	4050.2	4000.3	3924.1	3812.0	3669.2
12.5°	4100.2	4104.6	4108.9	4118.6	4100.2	4096.7	4066.9	4024.8	3952.1	3835.6	3674.5
15°	4070.4	4079.2	4110.7	4148.3	4152.7	4149.2	4130.0	4090.5	4017.0	3896.1	3712.1
17.5°	4070.4	4084.4	4150.1	4221.9	4247.3	4250.0	4233.3	4178.1	4090.5	3960.9	3747.2
20°	4104.6	4123.8	4226.3	4327.9	4370.0	4370.0	4337.5	4260.5	4158.0	4019.6	3770.8
22.5°	4192.1	4217.5	4346.3	4463.7	4508.4	4498.7	4454.9	4342.8	4228.1	4086.2	3800.6
25°	4364.7	4384.0	4518.0	4636.2	4663.4	4641.5	4586.3	4442.7	4317.4	4176.4	3854.9
27.5°	4587.2	4589.8	4728.2	4828.1	4811.4	4796.5	4727.3	4567.9	4446.2	4305.1	3948.6
30°	4831.6	4831.6	4953.3	5029.5	4978.7	4966.5	4897.3	4719.4	4610.8	4480.3	4081.8
32.5°	5068.1	5078.6	5177.6	5225.7	5168.8	5156.5	5089.1	4911.3	4829.8	4747.5	4289.4
35°	5296.7	5304.6	5398.3	5424.6	5370.3	5373.8	5325.6	5174.9	5144.3	5133.8	4602.1
37.5°	5518.3	5520.0	5615.5	5632.2	5605.0	5634.8	5639.2	5506.0	5563.0	5647.9	5042.7
40°	5720.6	5722.4	5817.0	5859.9	5906.3	5944.9	5979.0	5908.1	6096.4	6293.5	5567.3
42.5°	5882.7	5901.1	6021.1	6102.5	6225.1	6298.7	6391.6	6388.1	6731.4	7027.5	6201.5
45°	6025.4	6057.0	6224.3	6367.0	6577.3	6694.6	6840.0	6953.9	7446.2	7844.7	6843.5
47.5°	6213.8	6243.5	6434.5	6668.4	6948.7	7102.8	7343.7	7589.8	8231.9	8647.1	7470.7
50°	6479.2	6466.0	6654.3	6989.8	7349.8	7552.2	7895.5	8264.3	9011.4	9346.0	7839.5
52.5°	6762.1	6756.8	6896.1	7339.3	7822.8	8059.3	8513.0	8961.5	9756.9	9827.8	8008.5
55°	7112.5	7074.8	7192.2	7737.9	8384.3	8638.3	9172.6	9651.7	10350.7	10099.3	8093.5
57.5°	7479.5	7417.3	7529.4	8182.0	9017.6	9318.0	9903.1	10324.4	10745.8	10285.0	8092.6
60°	7858.7	7785.2	7918.3	8737.3	9804.2	10151.9	10695.0	10779.0	11114.5	10378.8	8033.0
62.5°	8175.8	8132.0	8330.0	9331.2	10682.7	11024.3	11293.2	11192.5	11425.5	10451.5	7893.8
65°	8511.3	8513.9	8833.6	10024.0	11616.4	11846.8	11869.6	11728.5	11685.6	10436.6	7422.5
67.5°	8965.0	9007.1	9540.5	10964.7	12524.8	12702.6	12700.8	12309.3	11875.7	9844.4	6377.6
70°	9445.0	9544.0	10355.1	12041.2	13516.3	13696.7	13603.9	12678.9	11182.0	7960.3	4513.6
72.5°	9364.4	9536.1	10808.0	12720.1	14228.4	14365.9	13762.4	11770.6	8838.0	4626.6	1921.8
75°	7224.6	7423.4	9910.1	12047.4	13481.3	13357.8	11824.9	9159.5	4829.8	1291.1	432.7
77.5°	3816.4	3922.4	6546.6	9177.9	10511.9	10253.5	8330.0	5081.2	1472.4	319.7	194.5
80°	1998.8	2023.4	2852.9	5207.3	6487.9	6489.7	4936.7	2231.8	607.0	163.8	130.5
82.5°	1070.4	1091.4	1507.5	2406.1	3399.4	3081.5	1890.2	1228.0	353.0	92.8	125.3
85°	257.5	261.9	854.9	1099.3	1336.7	954.8	561.5	1031.0	95.5	54.3	101.6
87.5°	99.0	100.7	317.1	475.6	340.7	220.7	262.8	384.5	12.3	21.0	15.8
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°	3878.6	3878.6	3878.6	3878.6	3878.6	3878.6	3878.6	3878.6	3878.6	3878.6	3878.6
2.5°	3840.0	3817.3	3761.2	3690.2	3627.2	3581.6	3513.3	3468.6	3438.9	3438.0	3426.6
5°	3742.8	3696.4	3575.5	3431.8	3301.3	3184.0	3045.6	2936.1	2854.6	2841.5	2813.4
7.5°	3638.6	3562.4	3376.7	3152.4	2933.4	2711.0	2452.6	2292.3	2154.8	2089.1	2082.1
10°	3574.6	3467.8	3204.1	2880.0	2536.7	2174.9	1836.8	1602.9	1433.9	1385.7	1349.8
12.5°	3561.5	3420.5	3071.0	2624.3	2133.7	1655.5	1281.5	1032.7	897.8	854.9	843.5
15°	3574.6	3398.6	2958.9	2371.1	1725.6	1174.6	860.2	715.6	664.8	652.6	651.7
17.5°	3582.5	3372.3	2831.8	2089.9	1329.6	839.1	658.7	616.6	608.8	607.9	609.6
20°	3581.6	3332.0	2680.3	1776.4	988.9	659.6	595.6	586.9	585.1	586.0	585.1
22.5°	3575.5	3284.7	2513.9	1453.1	747.2	589.5	568.5	563.2	562.3	562.3	562.3
25°	3586.9	3247.0	2330.8	1143.9	615.8	557.1	543.9	539.6	538.7	538.7	536.9
27.5°	3628.1	3226.0	2130.2	880.3	556.2	528.2	517.7	516.8	514.2	513.3	515.0
30°	3694.6	3226.0	1910.4	685.0	520.3	498.4	490.5	488.8	487.9	487.0	487.9
32.5°	3812.0	3250.5	1670.4	569.3	486.1	465.1	459.9	462.5	459.9	459.9	459.9
35°	4024.0	3324.1	1419.0	496.6	450.2	432.7	427.4	431.0	429.2	429.2	428.3
37.5°	4333.2	3460.8	1165.8	452.8	418.7	400.3	393.3	398.5	396.8	396.8	395.9
40°	4709.8	3659.6	925.0	419.6	388.0	368.8	362.6	365.3	360.9	360.9	362.6
42.5°	5174.9	3911.9	714.7	387.2	357.4	339.0	335.5	332.8	325.0	320.6	321.5
45°	5691.7	4174.6	557.1	355.6	328.5	313.6	308.3	301.3	288.2	279.4	280.3
47.5°	6153.3	4377.0	452.8	325.0	302.2	290.8	282.9	269.8	250.5	240.0	240.9
50°	6396.0	4407.6	385.4	294.3	277.7	266.3	254.9	234.7	212.0	200.6	199.7
52.5°	6458.1	4264.0	335.5	266.3	253.1	240.0	225.1	198.0	172.6	160.3	158.5
55°	6480.9	4045.0	290.8	240.0	226.9	212.0	192.7	162.0	138.4	126.1	125.3
57.5°	6405.6	3718.3	255.8	216.4	200.6	182.2	158.5	129.6	106.9	97.2	97.2
60°	6238.3	3275.9	228.6	191.0	173.4	152.4	127.9	100.7	79.7	71.8	71.8
62.5°	5904.6	2703.1	203.2	164.7	148.0	126.1	103.4	76.2	56.1	51.7	52.6
65°	5274.8	2050.5	177.8	141.0	126.1	104.2	80.6	54.3	37.7	37.7	39.4
67.5°	4301.6	1424.2	151.5	120.0	108.6	85.0	61.3	37.7	26.3	29.8	33.3
70°	2847.6	798.8	129.6	99.0	92.8	67.4	45.5	25.4	21.0	28.0	34.2
72.5°	1074.8	311.0	108.6	79.7	80.6	51.7	32.4	19.3	19.3	30.7	40.3
75°	299.6	152.4	78.0	58.7	63.1	37.7	23.6	16.6	18.4	35.0	47.3
77.5°	176.1	112.1	50.8	34.2	42.9	26.3	15.8	13.1	15.8	29.8	45.5
80°	141.9	59.6	29.8	17.5	23.6	14.9	10.5	7.9	4.4	11.4	23.6
82.5°	141.9	35.9	14.0	12.3	12.3	7.9	5.3	3.5	0.9	0.0	6.1
85°	95.5	14.9	8.8	7.9	6.1	2.6	1.8	0.9	0.0	0.0	0.0
87.5°	15.8	6.1	3.5	1.8	0.9	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)