

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: P383280

Luminaire Tested: **GLEON-SA6A-735-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383280  
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-SA6A-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 615mA 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: 21073.5 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

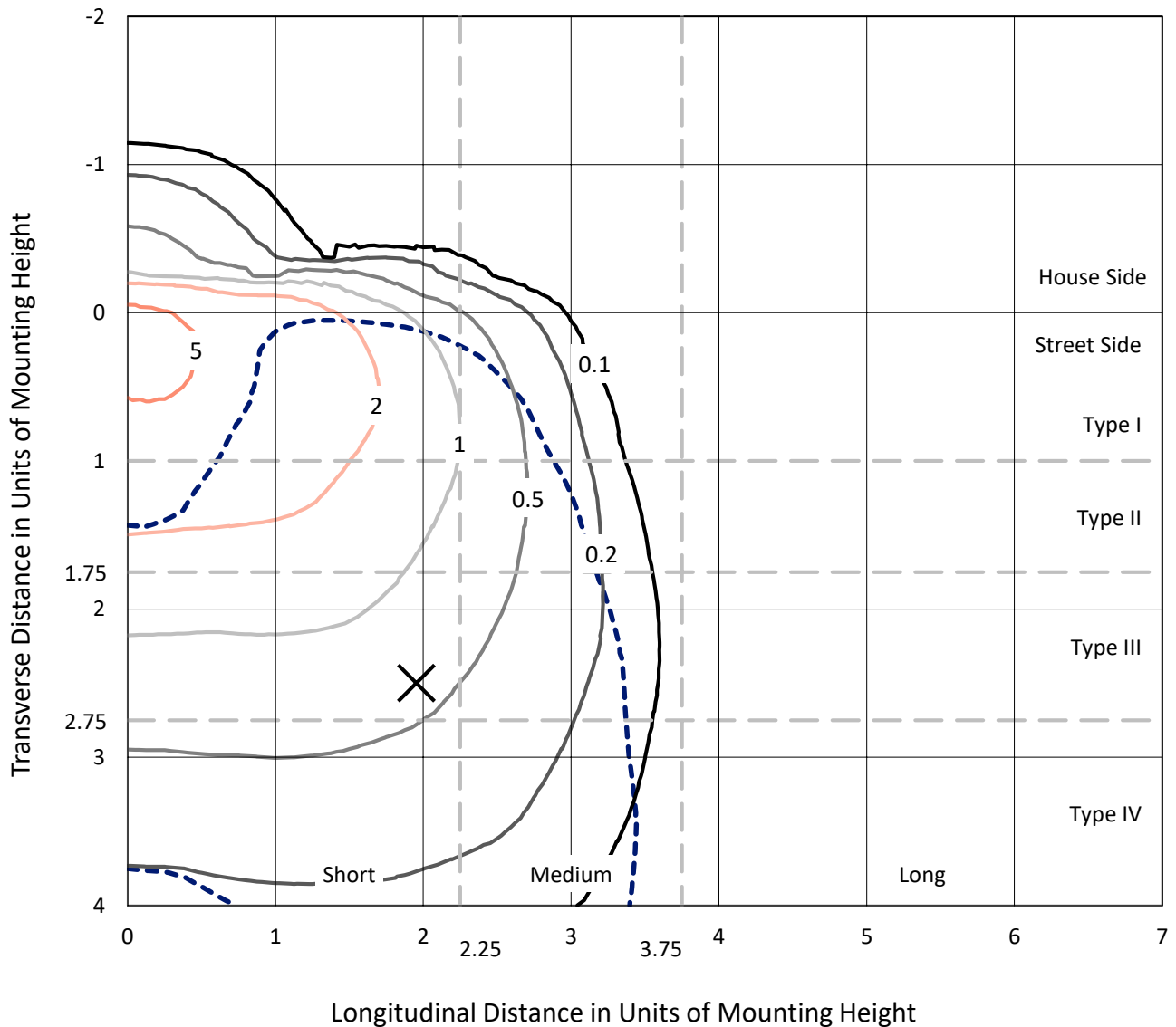
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

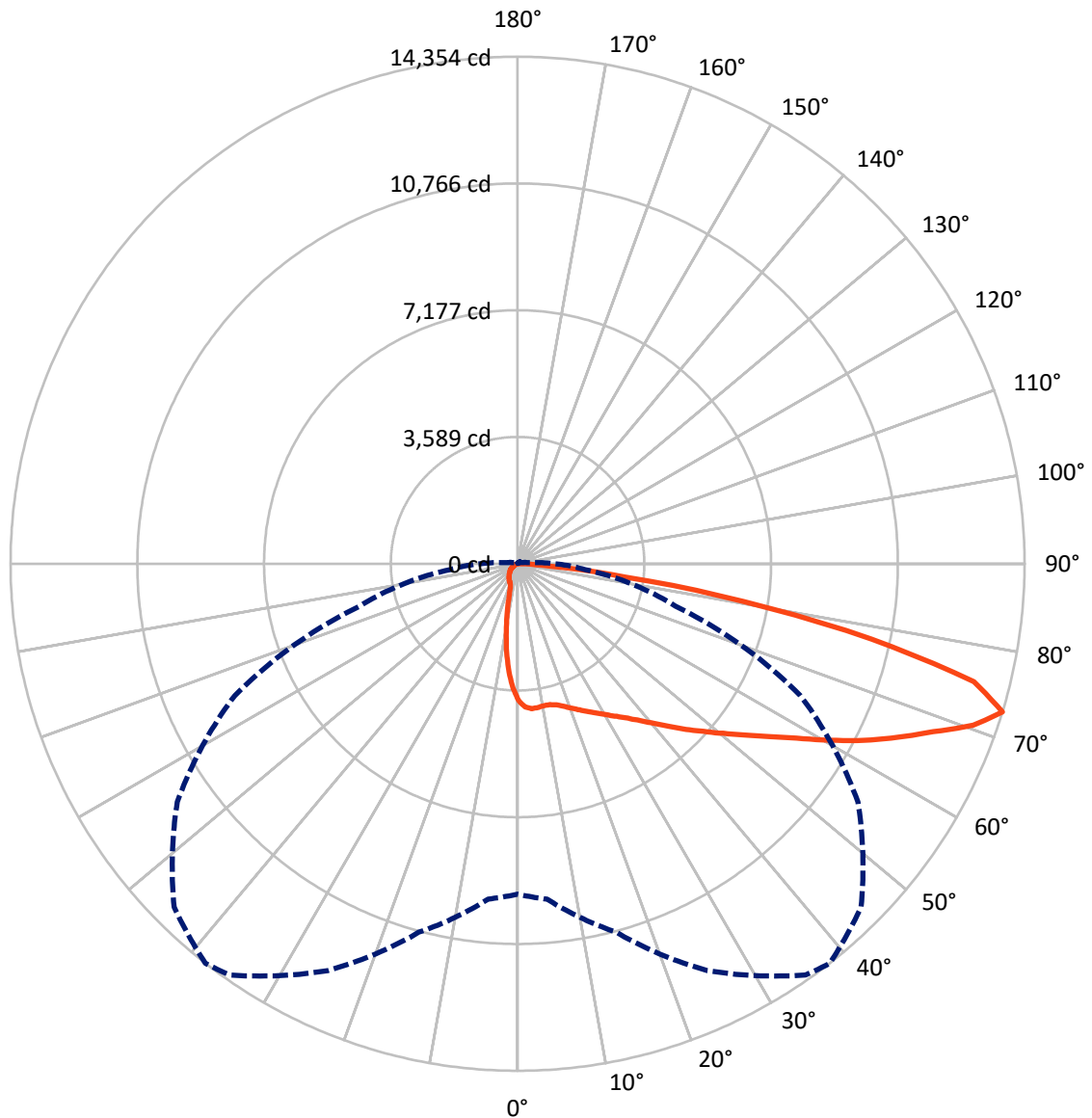
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	1773.4	0.0	1773.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	19300.1	0.0	19300.1
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	21073.5	0.0	21073.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.3	1.6
10°-20°	807.5	3.8
20°-30°	1284.4	6.1
30°-40°	1930.9	9.2
40°-50°	2945.8	14.0
50°-60°	4163.4	19.8
60°-70°	5222.2	24.8
70°-80°	3904.8	18.5
80°-90°	484.2	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°	21073.5	100.0
0°-180°	21073.5	100.0

**Coefficient of Utilization**



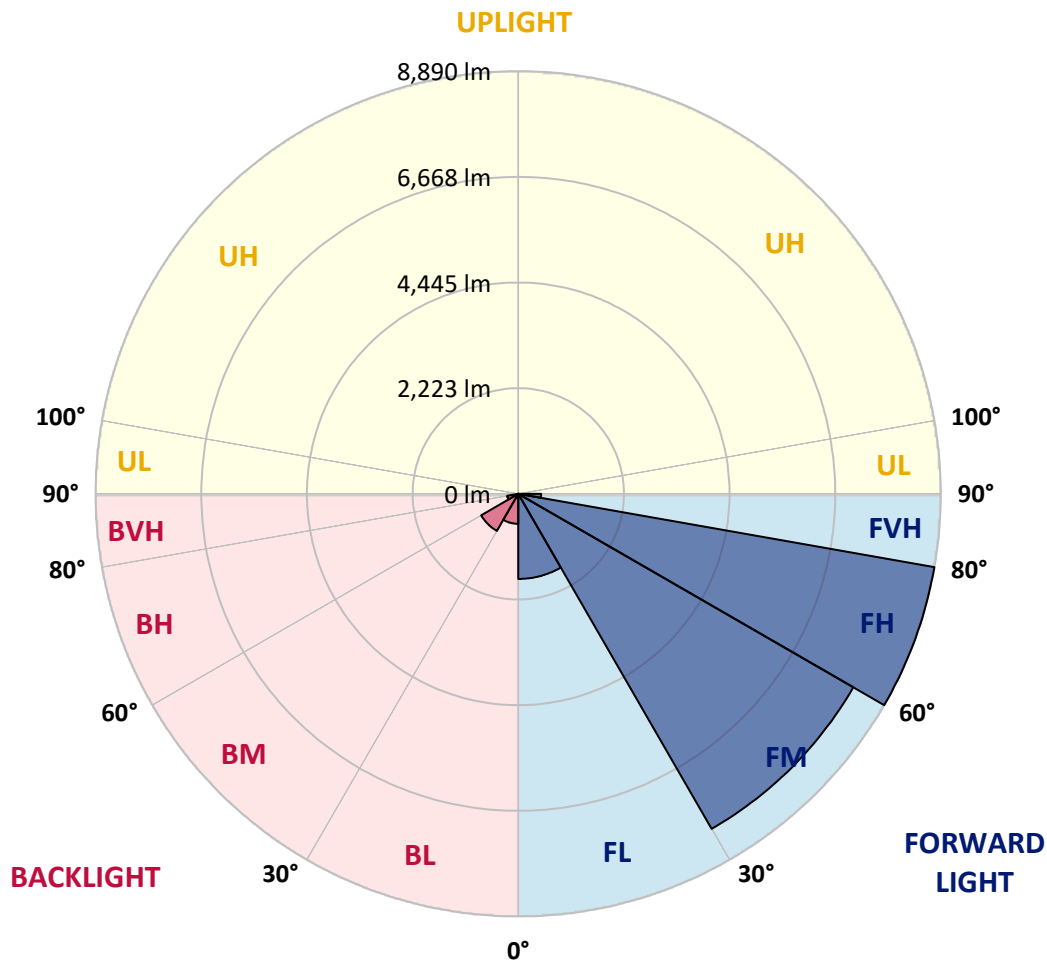
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1790.7	8.5			
FM (30°-60°)	8139.5	38.6			
FH (60°-80°)	8890.1	42.2			G4/12000
FVH (80°-90°)	479.7	2.3			G3/500
BL (0°-30°)	631.4	3.0	B2/1000		
BM (30°-60°)	900.6	4.3	B1/1000		
BH (60°-80°)	236.9	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°	3875.3	3875.3	3875.3	3875.3	3875.3	3875.3	3875.3	3875.3	3875.3	3875.3	3875.3
2.5°	4113.4	4114.3	4104.7	4088.8	4068.7	4058.3	4040.8	4012.7	3983.0	3929.6	3871.9
5°	4197.4	4197.4	4185.2	4164.1	4131.8	4122.2	4088.8	4044.2	3983.0	3896.4	3799.2
7.5°	4188.7	4190.4	4173.8	4151.9	4119.5	4110.7	4070.5	4020.7	3944.5	3839.5	3715.2
10°	4143.2	4147.5	4134.4	4123.9	4094.2	4084.6	4046.9	3997.0	3920.9	3808.8	3666.2
12.5°	4096.8	4101.1	4105.5	4115.1	4096.8	4093.2	4063.5	4021.5	3948.8	3832.5	3671.4
15°	4067.0	4075.8	4107.3	4144.9	4149.3	4145.8	4126.5	4087.2	4013.7	3892.8	3709.0
17.5°	4067.0	4081.0	4146.7	4218.4	4243.8	4246.5	4229.8	4174.6	4087.2	3957.6	3744.1
20°	4101.1	4120.4	4222.8	4324.3	4366.3	4366.3	4333.9	4256.9	4154.5	4016.3	3767.7
22.5°	4188.7	4214.0	4342.7	4460.0	4504.6	4495.0	4451.2	4339.1	4224.6	4082.8	3797.5
25°	4361.0	4380.3	4514.2	4632.4	4659.5	4637.6	4582.5	4438.9	4313.8	4172.9	3851.7
27.5°	4583.4	4586.0	4724.3	4824.0	4807.4	4792.5	4723.4	4564.1	4442.5	4301.5	3945.4
30°	4827.6	4827.6	4949.2	5025.3	4974.6	4962.4	4893.2	4715.5	4607.0	4476.6	4078.4
32.5°	5063.9	5074.3	5173.3	5221.4	5164.5	5152.2	5084.9	4907.2	4825.8	4743.5	4285.8
35°	5292.3	5300.1	5393.8	5420.0	5365.8	5369.3	5321.2	5170.6	5140.0	5129.5	4598.2
37.5°	5513.7	5515.4	5610.8	5627.5	5600.4	5630.1	5634.5	5501.4	5558.4	5643.2	5038.5
40°	5715.9	5717.7	5812.1	5855.1	5901.4	5939.9	5974.0	5903.1	6091.3	6288.2	5562.7
42.5°	5877.8	5896.1	6016.0	6097.4	6219.9	6293.5	6386.2	6382.8	6725.9	7021.6	6196.4
45°	6020.4	6052.0	6219.1	6361.7	6571.8	6689.1	6834.4	6948.1	7440.0	7838.2	6837.8
47.5°	6208.6	6238.4	6429.2	6662.8	6942.9	7096.9	7337.6	7583.5	8225.0	8639.9	7464.5
50°	6473.8	6460.7	6648.8	6984.0	7343.8	7545.9	7889.0	8257.4	9004.0	9338.3	7832.9
52.5°	6756.4	6751.2	6890.4	7333.2	7816.3	8052.7	8506.0	8954.0	9748.7	9819.6	8001.9
55°	7106.5	7069.0	7186.1	7731.5	8377.3	8631.2	9165.0	9643.8	10342.1	10090.9	8086.8
57.5°	7473.2	7411.1	7523.2	8175.2	9010.1	9310.3	9894.9	10315.9	10736.8	10276.5	8085.9
60°	7852.2	7778.7	7911.7	8730.0	9796.0	10143.4	10686.1	10770.1	11105.3	10370.1	8026.4
62.5°	8169.0	8125.2	8323.1	9323.4	10673.9	11015.2	11283.8	11183.1	11416.0	10442.7	7887.2
65°	8504.2	8506.9	8826.3	10015.7	11606.8	11837.0	11859.7	11718.8	11675.9	10427.9	7416.3
67.5°	8957.6	8999.6	9532.5	10955.7	12514.3	12692.0	12690.3	12299.0	11865.9	9836.3	6372.3
70°	9437.1	9536.1	10346.5	12031.2	13505.0	13685.4	13592.6	12668.4	11172.7	7953.7	4509.8
72.5°	9356.7	9528.1	10799.0	12709.5	14216.6	14354.0	13750.9	11760.8	8830.7	4622.7	1920.2
75°	7218.6	7417.3	9901.9	12037.4	13470.1	13346.7	11815.1	9151.9	4825.8	1290.0	432.3
77.5°	3813.2	3919.1	6541.1	9170.2	10503.2	10245.0	8323.1	5076.9	1471.2	319.4	194.3
80°	1997.1	2021.6	2850.5	5203.0	6482.5	6484.3	4932.5	2229.9	606.5	163.7	130.4
82.5°	1069.5	1090.5	1506.2	2404.1	3396.6	3079.0	1888.6	1227.0	352.7	92.8	125.1
85°	257.3	261.7	854.2	1098.4	1335.6	954.0	561.0	1030.1	95.4	54.2	101.5
87.5°	98.9	100.6	316.8	475.2	340.5	220.6	262.6	384.2	12.3	21.0	15.7
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°	3875.3	3875.3	3875.3	3875.3	3875.3	3875.3	3875.3	3875.3	3875.3	3875.3	3875.3
2.5°	3836.9	3814.0	3758.0	3687.2	3624.2	3578.6	3510.4	3465.7	3436.0	3435.1	3423.7
5°	3739.7	3693.3	3572.5	3429.0	3298.6	3181.3	3043.0	2933.6	2852.2	2839.1	2811.1
7.5°	3635.6	3559.4	3373.9	3149.8	2931.0	2708.8	2450.5	2290.4	2153.0	2087.3	2080.3
10°	3571.6	3464.9	3201.4	2877.6	2534.6	2173.1	1835.2	1601.6	1432.7	1384.6	1348.7
12.5°	3558.5	3417.7	3068.4	2622.0	2131.9	1654.1	1280.4	1031.9	897.1	854.2	842.8
15°	3571.6	3395.8	2956.4	2369.1	1724.1	1173.7	859.4	715.1	664.3	652.0	651.2
17.5°	3579.6	3369.5	2829.5	2088.2	1328.6	838.4	658.1	616.1	608.3	607.4	609.1
20°	3578.6	3329.3	2678.1	1774.9	988.1	659.0	595.2	586.4	584.6	585.5	584.6
22.5°	3572.5	3281.9	2511.8	1451.9	746.5	589.0	568.0	562.7	561.9	561.9	561.9
25°	3583.9	3244.3	2328.9	1143.0	615.3	556.6	543.5	539.1	538.2	538.2	536.5
27.5°	3625.0	3223.3	2128.5	879.6	555.8	527.7	517.2	516.4	513.7	512.8	514.6
30°	3691.5	3223.3	1908.8	684.4	519.9	498.0	490.1	488.3	487.5	486.6	487.5
32.5°	3808.8	3247.8	1669.0	568.9	485.7	464.7	459.4	462.1	459.4	459.4	459.4
35°	4020.7	3321.3	1417.8	496.2	449.8	432.3	427.1	430.6	428.9	428.9	428.0
37.5°	4329.6	3457.9	1164.9	452.5	418.4	400.0	392.9	398.2	396.5	396.5	395.6
40°	4705.9	3656.5	924.2	419.2	387.7	368.4	362.4	365.0	360.6	360.6	362.4
42.5°	5170.6	3908.6	714.1	386.9	357.1	338.7	335.2	332.6	324.7	320.4	321.2
45°	5687.0	4171.2	556.6	355.3	328.2	313.3	308.1	301.1	287.9	279.2	280.0
47.5°	6148.2	4373.3	452.5	324.7	301.9	290.5	282.7	269.6	250.3	239.8	240.7
50°	6390.6	4404.0	385.1	294.1	277.4	266.0	254.7	234.6	211.8	200.4	199.5
52.5°	6452.7	4260.4	335.2	266.0	252.9	239.8	225.0	197.8	172.4	160.1	158.4
55°	6475.6	4041.6	290.5	239.8	226.6	211.8	192.6	161.9	138.2	126.0	125.1
57.5°	6400.3	3715.2	255.5	216.2	200.4	182.0	158.4	129.5	106.8	97.2	97.2
60°	6233.1	3273.2	228.4	190.8	173.3	152.3	127.8	100.6	79.6	71.7	71.7
62.5°	5899.7	2700.8	203.1	164.5	147.9	126.0	103.3	76.1	56.0	51.6	52.5
65°	5270.4	2048.8	177.6	140.9	126.0	104.1	80.5	54.2	37.6	37.6	39.4
67.5°	4298.1	1423.0	151.4	119.9	108.5	84.9	61.3	37.6	26.3	29.7	33.3
70°	2845.2	798.1	129.5	98.9	92.8	67.4	45.6	25.3	21.0	28.0	34.1
72.5°	1073.9	310.7	108.5	79.6	80.5	51.6	32.4	19.3	19.3	30.6	40.2
75°	299.3	152.3	77.9	58.6	63.0	37.6	23.7	16.7	18.4	35.0	47.2
77.5°	175.9	112.1	50.8	34.1	42.9	26.3	15.7	13.1	15.7	29.7	45.6
80°	141.8	59.5	29.7	17.5	23.7	14.9	10.5	7.9	4.4	11.4	23.7
82.5°	141.8	35.9	14.0	12.3	12.3	7.9	5.2	3.5	0.8	0.0	6.1
85°	95.4	14.9	8.8	7.9	6.1	2.6	1.8	0.8	0.0	0.0	0.0
87.5°	15.7	6.1	3.5	1.8	0.8	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)