

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: P455914

Luminaire Tested: **GALN-SA7A-827-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22920 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

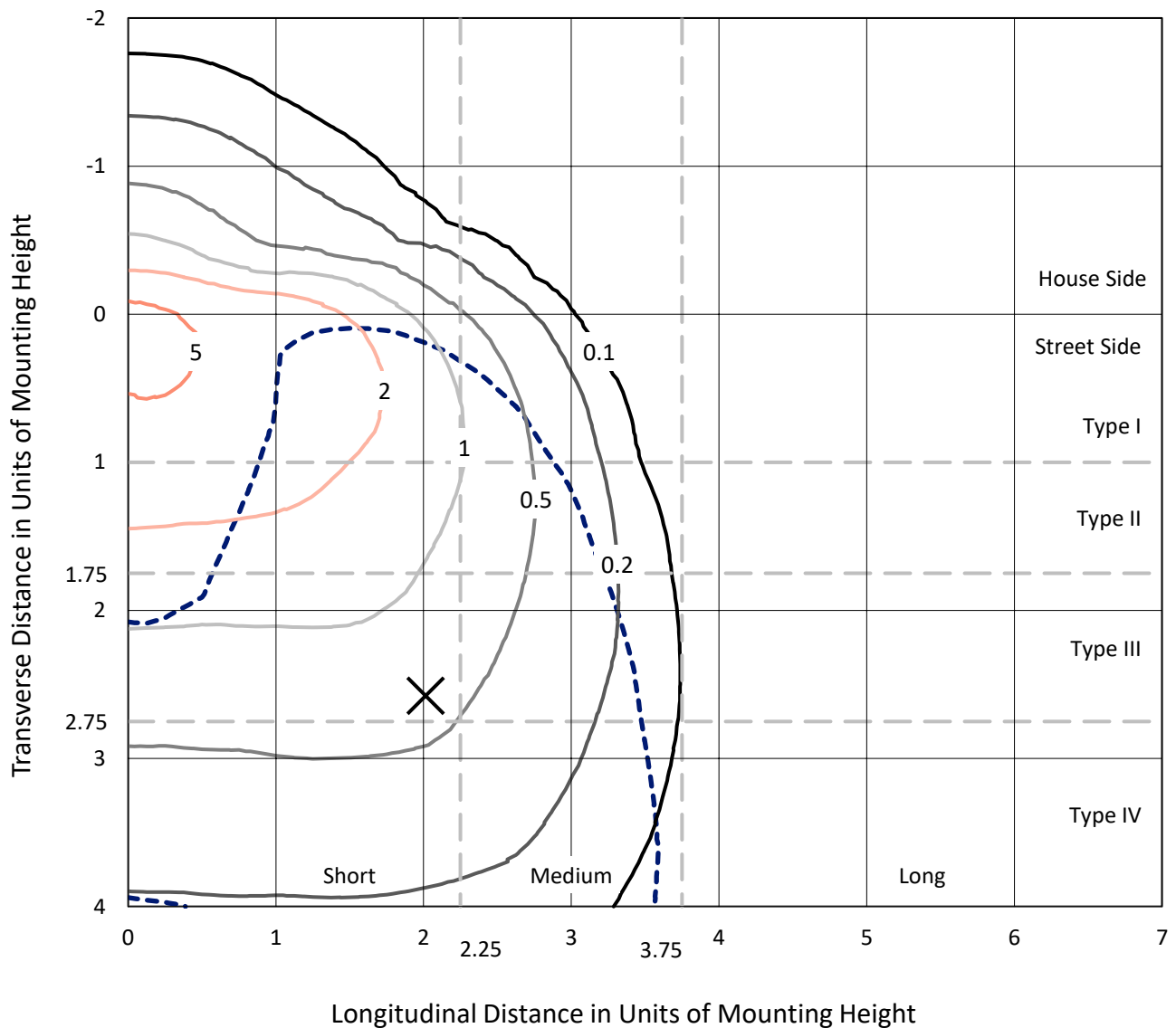
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

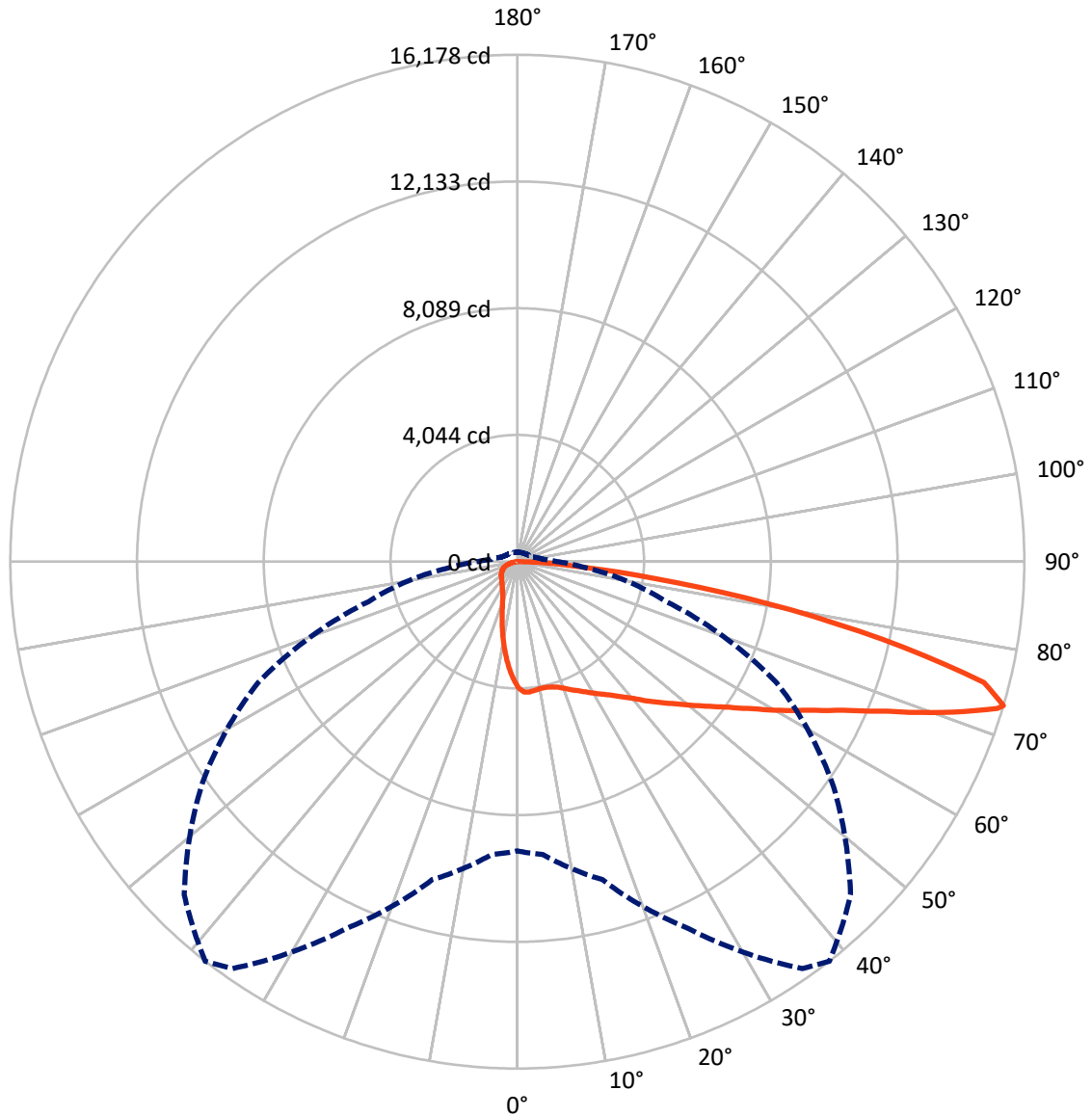
× Max cd
 - - - 1/2 Max cd



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 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3081.1	0.0	3081.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	19838.9	0.0	19838.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	22920.0	0.0	22920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.5	1.5
10°-20°	901.3	3.9
20°-30°	1403.5	6.1
30°-40°	2058.6	9.0
40°-50°	3053.8	13.3
50°-60°	4326.6	18.9
60°-70°	5488.4	23.9
70°-80°	4568.7	19.9
80°-90°	767.6	3.3
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°	22920.0	100.0
0°-180°	22920.0	100.0

Coefficient of Utilization



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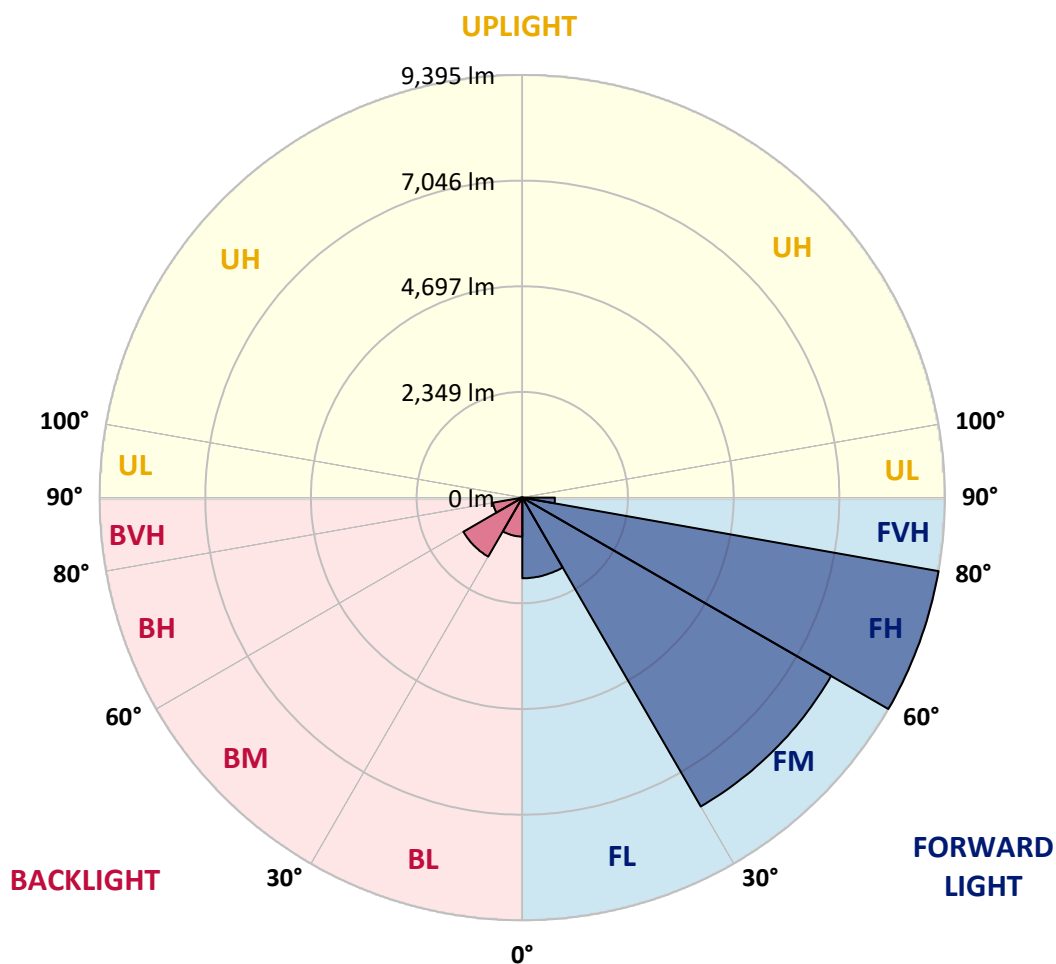
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1791.7	7.8			
FM (30°-60°)	7926.4	34.6			
FH (60°-80°)	9394.8	41.0			G4/12000
FVH (80°-90°)	726.0	3.2			G4/750
BL (0°-30°)	864.6	3.8	B2/1000		
BM (30°-60°)	1512.6	6.6	B2/2500		
BH (60°-80°)	662.3	2.9	B2/1000		G2/1000
BVH (80°-90°)	41.6	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7
2.5°	4188.4	4209.2	4198.8	4184.6	4175.5	4166.4	4153.5	4116.0	4086.2	4053.8	4003.4
5°	4219.5	4232.5	4223.4	4205.3	4184.6	4175.5	4150.9	4101.7	4053.8	3999.5	3924.4
7.5°	4201.4	4206.6	4196.2	4174.2	4156.1	4139.3	4110.8	4056.4	3998.2	3932.2	3833.8
10°	4136.7	4156.1	4156.1	4138.0	4119.8	4110.8	4082.3	4030.5	3977.5	3902.4	3785.9
12.5°	4083.6	4104.3	4121.1	4116.0	4114.7	4114.7	4092.7	4053.8	3991.7	3920.5	3782.0
15°	4047.4	4072.0	4108.2	4128.9	4141.9	4145.7	4136.7	4103.0	4039.6	3956.8	3797.6
17.5°	4039.6	4069.4	4135.4	4180.7	4214.3	4213.0	4210.5	4163.9	4094.0	4008.5	3817.0
20°	4074.5	4113.4	4205.3	4276.5	4325.6	4316.6	4302.3	4241.5	4160.0	4064.2	3835.1
22.5°	4179.4	4219.5	4320.5	4398.1	4446.0	4446.0	4403.3	4323.1	4236.3	4128.9	3859.7
25°	4329.5	4373.5	4481.0	4559.9	4581.9	4565.1	4522.4	4425.3	4325.6	4222.1	3911.5
27.5°	4513.3	4566.4	4666.1	4732.1	4725.6	4712.6	4668.6	4544.4	4444.7	4350.2	3999.5
30°	4742.4	4781.2	4884.8	4900.3	4877.0	4874.4	4812.3	4688.1	4594.9	4522.4	4125.0
32.5°	4958.6	4993.5	5076.4	5082.8	5041.4	5046.6	4988.3	4874.4	4821.4	4795.5	4336.0
35°	5187.7	5205.8	5277.0	5269.2	5242.0	5238.1	5214.8	5106.1	5123.0	5169.5	4635.0
37.5°	5379.2	5415.5	5455.6	5462.1	5460.8	5473.7	5489.2	5437.5	5534.5	5680.8	5027.2
40°	5555.3	5586.3	5645.9	5666.6	5717.0	5742.9	5796.0	5797.3	6021.2	6262.0	5510.0
42.5°	5674.3	5727.4	5838.7	5876.3	5999.2	6076.9	6155.8	6240.0	6564.8	6874.2	6079.5
45°	5777.9	5847.8	6032.9	6149.4	6316.3	6410.8	6577.8	6753.8	7221.1	7626.2	6658.0
47.5°	5934.5	5996.6	6208.9	6414.7	6667.1	6775.8	7025.6	7288.4	7899.3	8343.2	7212.0
50°	6151.9	6189.5	6405.6	6740.9	7063.1	7202.9	7533.0	7912.2	8624.1	9051.2	7698.7
52.5°	6430.2	6445.8	6617.9	7064.4	7489.0	7662.4	8099.9	8542.6	9258.3	9666.0	8084.4
55°	6759.0	6733.1	6867.7	7407.4	7975.7	8202.2	8672.0	9180.7	9971.5	10163.1	8365.2
57.5°	7083.9	7043.7	7151.2	7824.2	8576.2	8849.3	9396.8	9838.2	10608.3	10627.7	8562.0
60°	7428.2	7398.4	7526.5	8313.5	9312.7	9636.3	10142.4	10520.3	11224.4	10951.3	8593.0
62.5°	7781.5	7733.6	7916.1	8863.6	10142.4	10436.2	10926.7	11245.1	11828.9	11071.7	8294.1
65°	8124.5	8102.5	8384.7	9517.2	11087.2	11421.2	11897.5	12113.6	12312.9	10890.5	7552.4
67.5°	8489.5	8533.5	8983.9	10389.6	12319.4	12738.8	13252.6	13049.4	12451.4	10032.3	6360.3
70°	9046.1	9074.5	9770.9	11532.5	13907.6	14413.6	14662.2	13382.1	11783.6	8402.8	4781.2
72.5°	9285.5	9411.1	10473.7	12732.3	15711.9	16021.2	15135.9	12640.4	9816.2	5708.0	2512.3
73°	9232.4	9382.6	10506.1	12914.8	15852.9	16177.8	15034.9	12258.6	9125.0	4915.9	2153.8
75°	8571.0	8756.1	10085.4	12762.1	15578.5	15384.4	13411.8	10447.8	6166.2	2235.3	981.1
77.5°	6762.9	6815.9	7991.2	10305.4	12267.6	11907.8	10037.5	6529.9	2518.8	831.0	556.6
80°	3392.4	3587.9	4504.3	5903.4	8203.5	8085.7	6335.7	3088.3	1049.7	488.0	368.9
82.5°	1632.1	1770.6	2193.9	2878.6	4532.7	4425.3	3137.5	1687.8	666.6	284.8	217.4
85°	1051.0	1154.5	1396.6	1373.3	1863.8	1779.7	1409.5	1277.5	394.8	148.8	151.4
87.5°	693.8	759.8	911.2	728.7	678.2	613.5	622.6	719.6	77.7	57.0	20.7
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°	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7
2.5°	3982.6	3965.8	3910.2	3855.8	3804.0	3754.8	3722.5	3679.8	3651.3	3659.1	3670.7
5°	3883.0	3845.4	3747.1	3651.3	3560.7	3453.3	3366.5	3296.7	3243.6	3224.2	3220.3
7.5°	3778.1	3714.7	3573.6	3409.3	3255.2	3121.9	2967.9	2891.5	2802.2	2771.2	2760.8
10°	3714.7	3629.3	3431.3	3202.2	2970.5	2749.2	2582.2	2446.3	2323.3	2300.0	2288.4
12.5°	3696.6	3584.0	3317.4	3022.3	2714.2	2442.4	2195.2	2016.6	1897.5	1870.3	1830.2
15°	3686.2	3546.5	3211.2	2841.1	2450.2	2118.8	1858.7	1650.3	1541.5	1469.1	1470.4
17.5°	3677.2	3503.7	3092.2	2643.0	2222.4	1840.5	1553.2	1365.5	1265.9	1227.0	1223.1
20°	3664.2	3453.3	2955.0	2434.6	1962.2	1586.8	1326.7	1186.9	1119.6	1087.2	1085.9
22.5°	3659.1	3404.1	2820.3	2222.4	1731.8	1391.4	1176.5	1078.2	1035.5	1013.5	1013.5
25°	3672.0	3369.1	2679.3	2020.4	1527.3	1224.4	1073.0	1005.7	981.1	969.5	965.6
27.5°	3712.1	3353.6	2539.5	1818.5	1339.6	1110.5	1003.1	956.5	938.4	929.3	930.6
30°	3788.5	3352.3	2402.3	1619.2	1199.8	1023.8	947.4	915.1	900.9	895.7	894.4
32.5°	3911.5	3380.8	2267.7	1454.8	1082.1	951.3	895.7	872.4	865.9	862.0	860.7
35°	4119.8	3461.0	2134.3	1304.7	991.5	886.6	846.5	834.8	825.8	829.7	831.0
37.5°	4400.7	3599.5	2007.5	1186.9	922.9	838.7	805.1	794.7	789.5	793.4	797.3
40°	4777.4	3798.9	1901.4	1092.4	873.7	798.6	768.8	759.8	754.6	761.1	762.4
42.5°	5192.8	4029.2	1813.4	1018.6	833.5	764.9	736.5	726.1	722.2	726.1	727.4
45°	5620.0	4297.2	1768.1	965.6	799.9	740.4	710.6	698.9	689.9	687.3	691.2
47.5°	6040.6	4530.1	1766.8	933.2	772.7	718.4	686.0	673.1	661.4	654.9	653.6
50°	6383.6	4715.2	1797.8	919.0	749.4	693.8	661.4	648.5	632.9	620.0	622.6
52.5°	6642.5	4835.6	1812.1	912.5	736.5	667.9	635.5	623.9	605.7	588.9	588.9
55°	6809.5	4864.1	1777.1	906.0	726.1	640.7	605.7	595.4	577.3	560.4	560.4
57.5°	6866.4	4776.1	1651.6	890.5	715.8	617.4	576.0	566.9	552.7	535.9	533.3
60°	6734.4	4478.4	1431.5	843.9	695.1	592.8	543.6	539.7	534.6	520.3	519.0
62.5°	6225.7	3846.7	1192.1	783.1	660.1	566.9	513.8	520.3	524.2	516.4	515.1
65°	5379.2	3123.2	1018.6	698.9	613.5	530.7	481.5	498.3	508.7	508.7	506.1
67.5°	4363.2	2398.4	858.1	626.5	555.3	481.5	445.2	458.2	466.0	463.4	469.8
70°	3101.2	1624.4	698.9	543.6	481.5	425.8	398.7	398.7	393.5	390.9	390.9
72.5°	1504.0	928.0	566.9	454.3	410.3	363.7	341.7	332.6	322.3	321.0	314.5
73°	1256.8	832.3	541.0	437.5	393.5	354.6	330.1	315.8	309.3	304.2	302.9
75°	764.9	631.6	451.7	368.9	335.2	305.5	283.5	270.5	264.0	260.2	258.9
77.5°	503.5	471.1	350.8	282.2	256.3	238.2	229.1	216.2	212.3	207.1	207.1
80°	375.4	359.8	251.1	199.3	183.8	168.3	165.7	163.1	152.7	146.3	143.7
82.5°	242.0	256.3	170.9	133.3	116.5	103.5	104.8	108.7	98.4	89.3	86.7
85°	172.1	185.1	103.5	60.8	49.2	42.7	47.9	42.7	44.0	34.9	28.5
87.5°	28.5	49.2	18.1	7.8	3.9	2.6	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)