

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: P456261

Luminaire Tested: **GALN-SA7C-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 36683 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

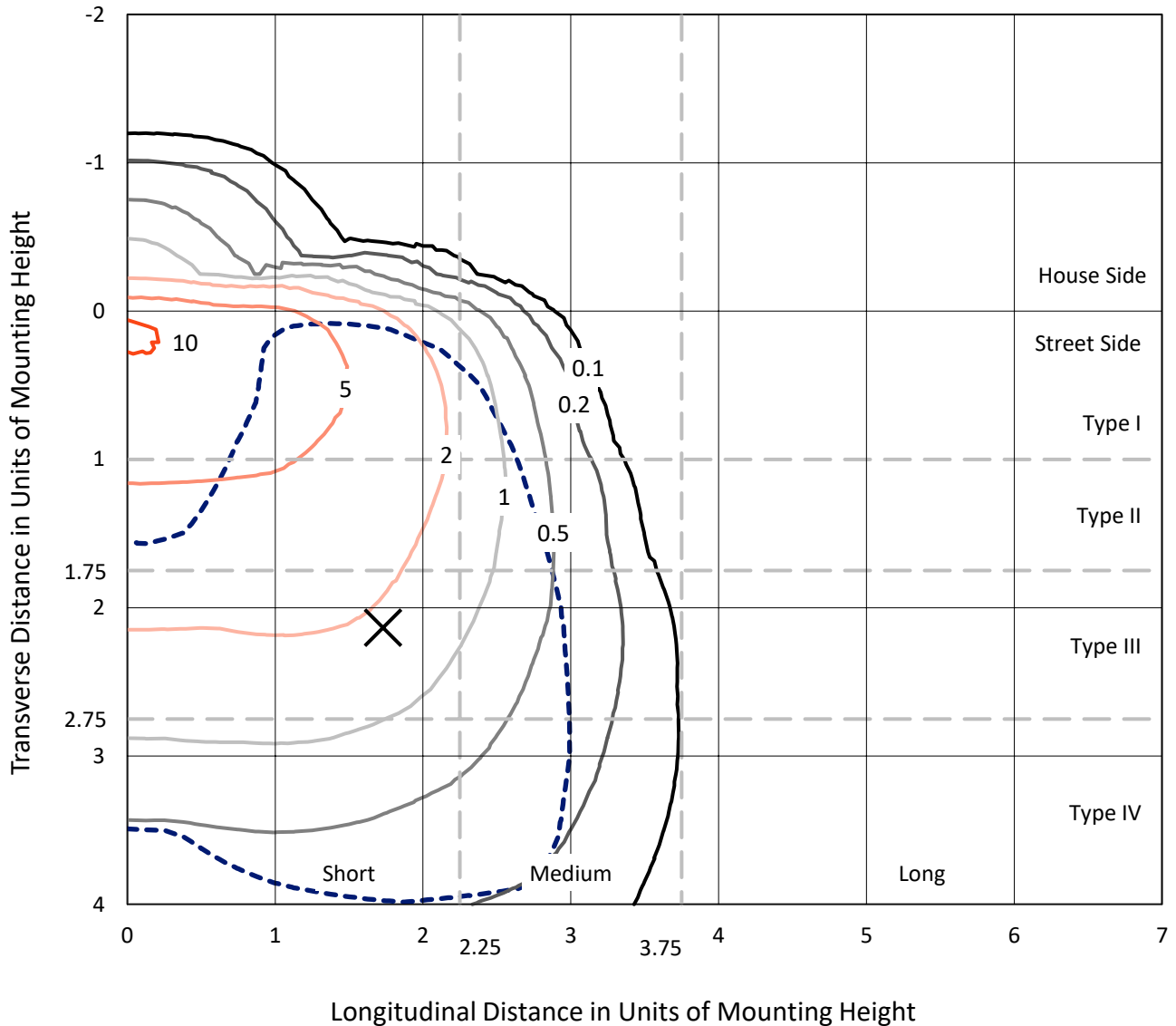
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

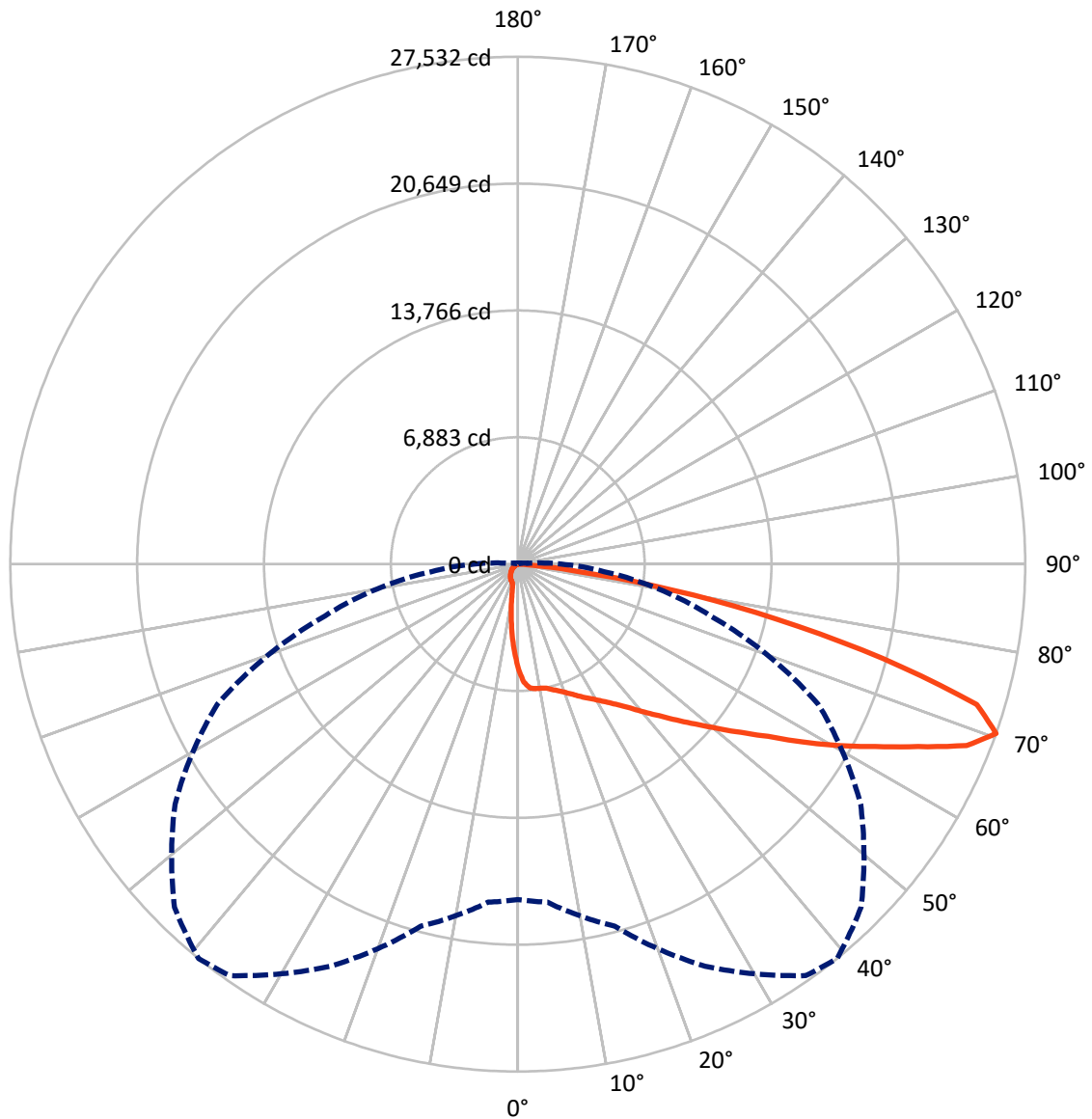
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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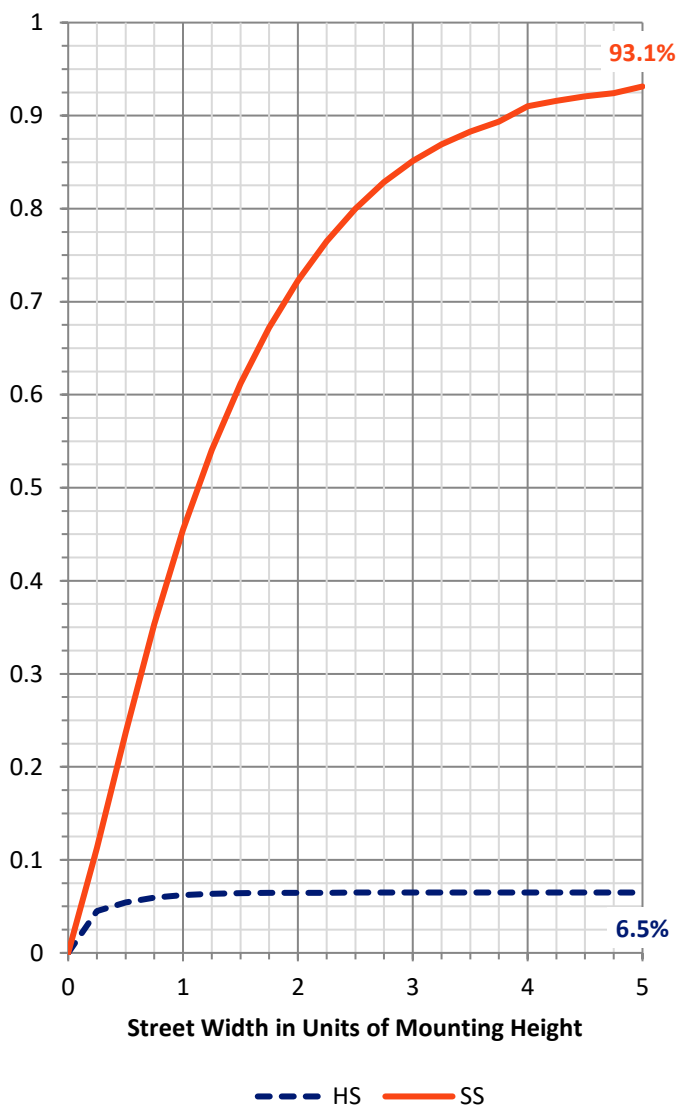
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2391.9	0.0	2391.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	34291.1	0.0	34291.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	36683.0	0.0	36683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.2	1.3
10°-20°	1268.7	3.5
20°-30°	2125.4	5.8
30°-40°	3296.3	9.0
40°-50°	5223.6	14.2
50°-60°	7657.0	20.9
60°-70°	9814.4	26.8
70°-80°	6167.1	16.8
80°-90°	642.5	1.8
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°	36683.0	100.0
0°-180°	36683.0	100.0

Coefficient of Utilization



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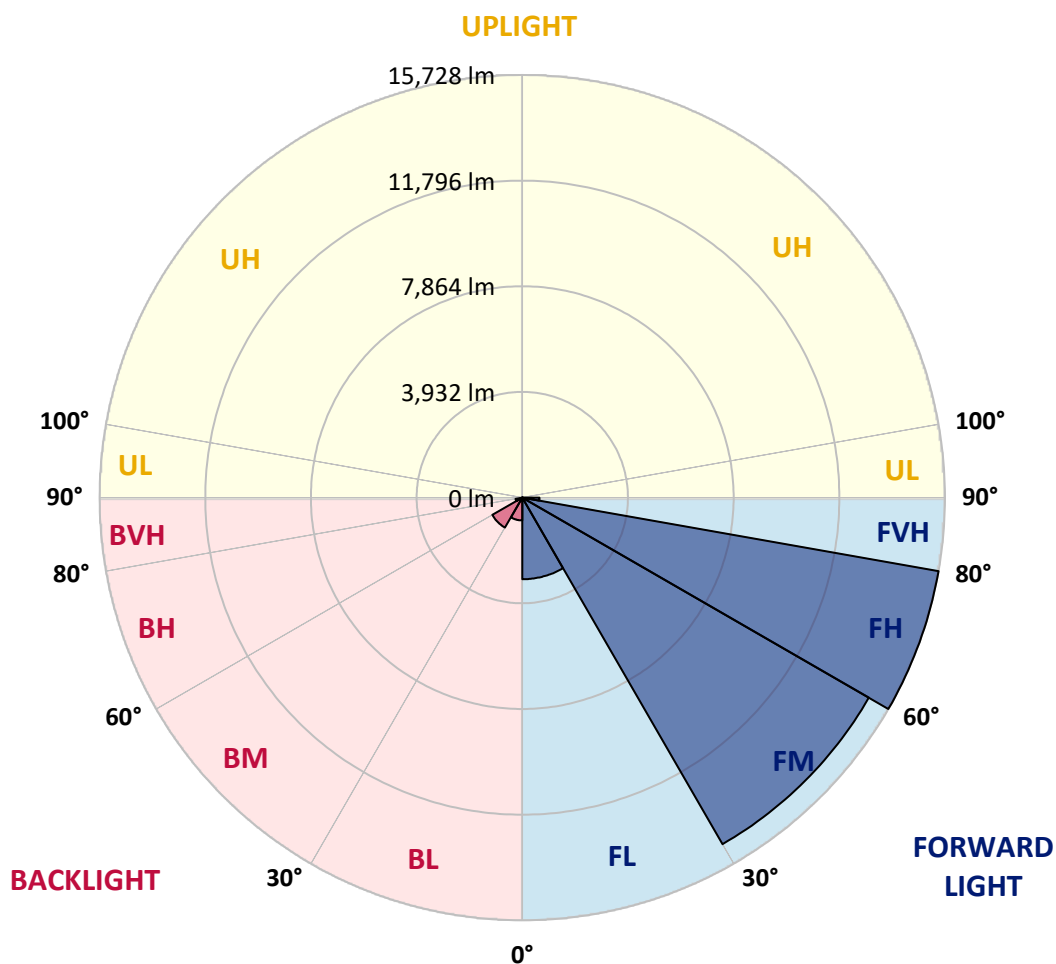
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3035.3	8.3			
FM (30°-60°)	14889.5	40.6			
FH (60°-80°)	15728.5	42.9			G5
FVH (80°-90°)	637.7	1.7			G4/750
BL (0°-30°)	847.0	2.3	B2/1000		
BM (30°-60°)	1287.3	3.5	B2/2500		
BH (60°-80°)	253.0	0.7	B1/500		G1/500
BVH (80°-90°)	4.7	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5723.8	5723.8	5723.8	5723.8	5723.8	5723.8	5723.8	5723.8	5723.8	5723.8	5723.8
2.5°	6613.7	6591.5	6561.9	6527.4	6428.8	6411.6	6352.4	6226.7	6076.3	5953.1	5783.0
5°	6926.7	6939.1	6916.9	6855.3	6783.8	6741.9	6667.9	6473.2	6278.4	6029.5	5750.9
7.5°	6998.2	7022.9	6995.8	6936.6	6867.6	6823.2	6764.1	6596.4	6369.6	6086.2	5704.1
10°	6990.8	7020.4	7003.2	6948.9	6892.2	6850.3	6786.2	6653.1	6470.7	6172.4	5718.9
12.5°	6978.5	7017.9	7015.5	6988.4	6941.5	6909.5	6870.0	6751.7	6581.6	6298.2	5800.2
15°	6944.0	6993.3	7037.7	7059.9	7062.3	7062.3	7013.0	6887.3	6724.6	6463.3	5906.2
17.5°	6958.8	7015.5	7126.4	7190.5	7234.9	7229.9	7178.2	7042.6	6862.7	6633.4	6017.1
20°	7050.0	7126.4	7281.7	7409.9	7454.3	7439.5	7370.4	7212.7	7008.1	6778.8	6125.6
22.5°	7274.3	7343.3	7538.1	7688.4	7720.5	7681.0	7582.4	7368.0	7183.1	6936.6	6256.3
25°	7609.6	7690.9	7870.8	7984.2	7984.2	7962.1	7824.0	7572.6	7380.3	7156.0	6426.3
27.5°	8016.3	8085.3	8262.8	8363.9	8304.7	8240.6	8102.6	7799.4	7614.5	7432.1	6630.9
30°	8427.9	8472.3	8659.7	8704.0	8642.4	8561.1	8413.2	8110.0	7947.3	7806.8	6926.7
32.5°	8817.4	8913.6	9068.9	9059.0	8975.2	8935.7	8800.2	8477.2	8386.0	8371.3	7340.9
35°	9206.9	9280.8	9418.9	9453.4	9379.4	9372.1	9273.5	9034.3	9036.8	9132.9	7986.7
37.5°	9542.1	9608.7	9771.4	9847.8	9862.6	9899.6	9860.1	9702.4	9926.7	10190.4	8842.1
40°	9823.2	9916.8	10123.9	10257.0	10409.8	10545.4	10552.8	10587.3	11038.4	11492.0	9958.7
42.5°	10042.5	10173.2	10473.9	10720.4	11070.5	11243.0	11381.1	11570.9	12330.1	13008.0	11275.1
45°	10328.5	10478.9	10853.5	11240.5	11787.8	12071.3	12263.5	12771.3	13848.6	14772.9	12625.9
47.5°	10801.8	10880.7	11262.7	11827.2	12547.0	12951.3	13326.0	14095.1	15477.9	16306.2	13750.0
50°	11410.6	11462.4	11750.8	12534.7	13466.5	13998.9	14681.7	15586.4	17169.0	17578.1	14385.9
52.5°	12083.6	12100.8	12317.8	13313.6	14496.9	15167.3	15931.5	17048.2	18546.9	18485.3	14807.5
55°	12865.0	12840.4	13025.2	14159.1	15717.0	16483.7	17373.6	18544.4	19742.4	19128.7	15049.0
57.5°	13759.8	13693.3	13873.2	15280.7	17279.9	18196.9	19101.5	19836.1	20669.3	19668.5	15164.9
60°	14696.5	14563.4	14777.9	16540.4	19121.3	19991.4	20743.3	20940.5	21645.5	20097.4	14965.2
62.5°	15443.4	15445.9	15845.2	17881.3	21014.4	21776.1	22175.4	22352.9	22486.0	20003.7	13915.1
65°	16609.4	16648.8	17287.3	19742.4	23205.8	23866.4	24140.1	23563.2	22523.0	18840.2	12337.5
67.5°	17812.3	17938.0	19106.5	22306.1	25737.4	26269.9	25917.4	23797.4	21517.3	16185.4	9354.8
70°	18204.3	18411.3	20336.5	24071.0	27255.9	27532.0	26338.9	22705.4	17987.3	10821.5	4708.2
72.5°	16680.9	17016.1	19629.1	23427.7	26287.1	26048.0	23565.7	19042.4	11435.3	4109.2	1437.1
75°	11763.1	11911.0	16313.6	19434.3	21142.6	20464.7	17925.7	12275.9	4703.3	1153.6	493.0
77.5°	6073.8	6002.4	9702.4	12894.6	15078.6	14376.1	11738.5	6354.9	1782.2	480.7	305.7
80°	3140.5	3192.2	4198.0	6756.7	9204.4	8469.9	6258.7	2945.7	949.0	266.2	234.2
82.5°	1760.0	1651.6	2413.3	2950.6	4303.9	3374.6	2400.9	2085.4	414.1	160.2	221.9
85°	320.5	335.2	1323.7	1594.9	1493.8	949.0	774.0	1392.7	120.8	88.7	155.3
87.5°	4.9	4.9	256.4	458.5	290.9	133.1	244.0	199.7	24.7	34.5	27.1
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°	5723.8	5723.8	5723.8	5723.8	5723.8	5723.8	5723.8	5723.8	5723.8	5723.8	5723.8
2.5°	5696.7	5603.0	5428.0	5255.5	5036.1	4856.1	4735.3	4609.6	4481.4	4491.3	4520.9
5°	5598.1	5435.4	5090.3	4725.5	4375.4	4059.9	3749.3	3470.8	3357.4	3253.8	3258.8
7.5°	5499.5	5270.2	4764.9	4193.0	3663.0	3125.7	2736.2	2415.7	2245.6	2117.5	2080.5
10°	5455.1	5151.9	4466.6	3680.3	2928.5	2341.8	1841.4	1580.1	1378.0	1313.9	1331.1
12.5°	5474.8	5092.8	4198.0	3216.9	2322.1	1631.9	1281.8	1148.7	1104.3	1096.9	1092.0
15°	5511.8	5050.9	3934.2	2704.1	1705.8	1212.8	1077.2	1052.6	1047.6	1042.7	1045.2
17.5°	5561.1	5013.9	3653.2	2223.5	1308.9	1060.0	1020.5	1008.2	1005.7	1005.7	1005.7
20°	5610.4	4972.0	3340.1	1794.5	1092.0	1000.8	976.2	968.8	966.3	966.3	963.8
22.5°	5667.1	4935.0	3022.1	1410.0	1005.7	958.9	936.7	931.8	929.3	926.9	926.9
25°	5748.5	4888.2	2684.4	1153.6	951.5	919.5	897.3	892.3	889.9	880.0	882.5
27.5°	5856.9	4853.6	2336.9	995.9	902.2	870.2	855.4	848.0	843.0	835.6	838.1
30°	6004.8	4824.1	1967.1	909.6	845.5	818.4	803.6	798.7	793.7	786.3	786.3
32.5°	6261.2	4836.4	1577.6	840.6	793.7	761.7	746.9	742.0	737.0	729.6	729.6
35°	6645.7	4907.9	1262.1	781.4	732.1	700.1	685.3	685.3	677.9	668.0	665.6
37.5°	7274.3	5090.3	1013.1	724.7	673.0	643.4	626.1	621.2	613.8	599.0	596.5
40°	8016.3	5373.8	852.9	668.0	618.7	589.1	574.4	559.6	539.8	525.1	522.6
42.5°	8948.1	5664.6	739.5	611.3	567.0	539.8	522.6	497.9	468.4	448.6	446.2
45°	9919.3	5930.9	663.1	559.6	517.7	495.5	475.8	436.3	399.3	374.7	372.2
47.5°	10644.0	5980.2	601.5	510.3	475.8	453.6	426.5	377.2	327.8	305.7	298.3
50°	10986.7	5741.1	537.4	461.0	433.8	409.2	374.7	318.0	263.8	236.6	231.7
52.5°	11107.4	5326.9	485.6	416.6	391.9	362.4	320.5	256.4	207.1	179.9	177.5
55°	11058.1	4804.3	438.8	374.7	342.6	308.1	266.2	204.6	152.8	130.6	125.7
57.5°	10799.3	4138.8	391.9	332.8	293.3	258.8	212.0	152.8	103.5	83.8	81.3
60°	10101.7	3231.7	345.1	285.9	249.0	212.0	167.6	108.5	64.1	46.8	46.8
62.5°	8923.4	2398.5	300.7	239.1	209.5	170.1	118.3	69.0	34.5	24.7	22.2
65°	7456.7	1769.9	251.4	202.1	175.0	133.1	83.8	41.9	17.3	7.4	4.9
67.5°	5203.7	1092.0	209.5	165.2	143.0	96.1	51.8	17.3	7.4	0.0	0.0
70°	2364.0	520.1	160.2	125.7	108.5	69.0	27.1	9.9	4.9	0.0	0.0
72.5°	734.6	273.6	113.4	91.2	74.0	44.4	14.8	7.4	4.9	0.0	0.0
75°	340.2	175.0	71.5	49.3	41.9	22.2	9.9	4.9	2.5	0.0	0.0
77.5°	253.9	135.6	41.9	27.1	22.2	14.8	7.4	4.9	2.5	0.0	0.0
80°	221.9	69.0	24.7	17.3	12.3	9.9	4.9	2.5	0.0	0.0	0.0
82.5°	199.7	34.5	14.8	9.9	7.4	4.9	2.5	2.5	0.0	0.0	0.0
85°	108.5	19.7	9.9	7.4	4.9	2.5	2.5	0.0	0.0	0.0	0.0
87.5°	19.7	9.9	7.4	4.9	4.9	2.5	2.5	2.5	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)