

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: P529091

Luminaire Tested: **GALN-SA4B-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11009 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

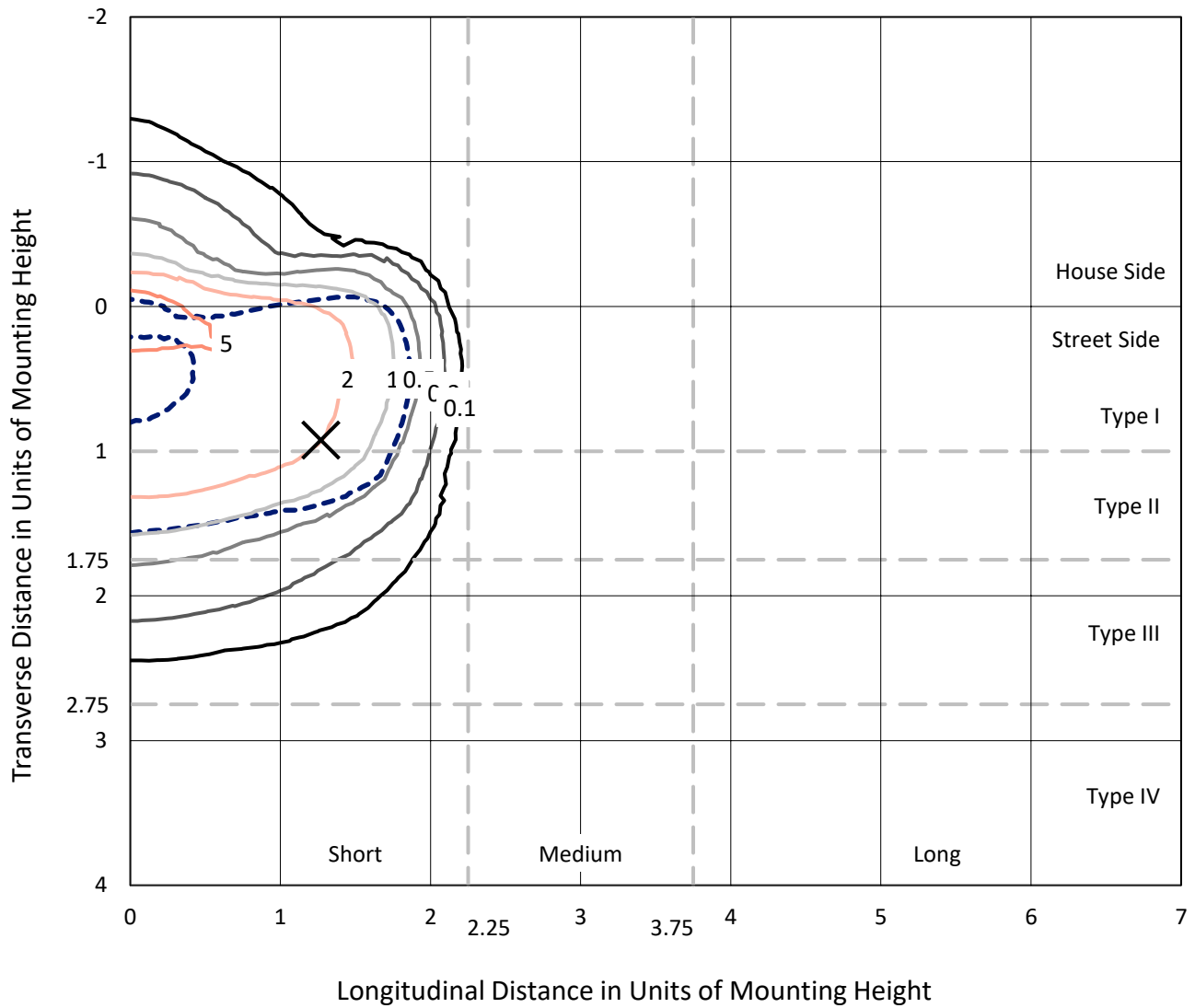
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529091
 CATALOG NUMBER: GALN-SA4B-727-U-SL3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

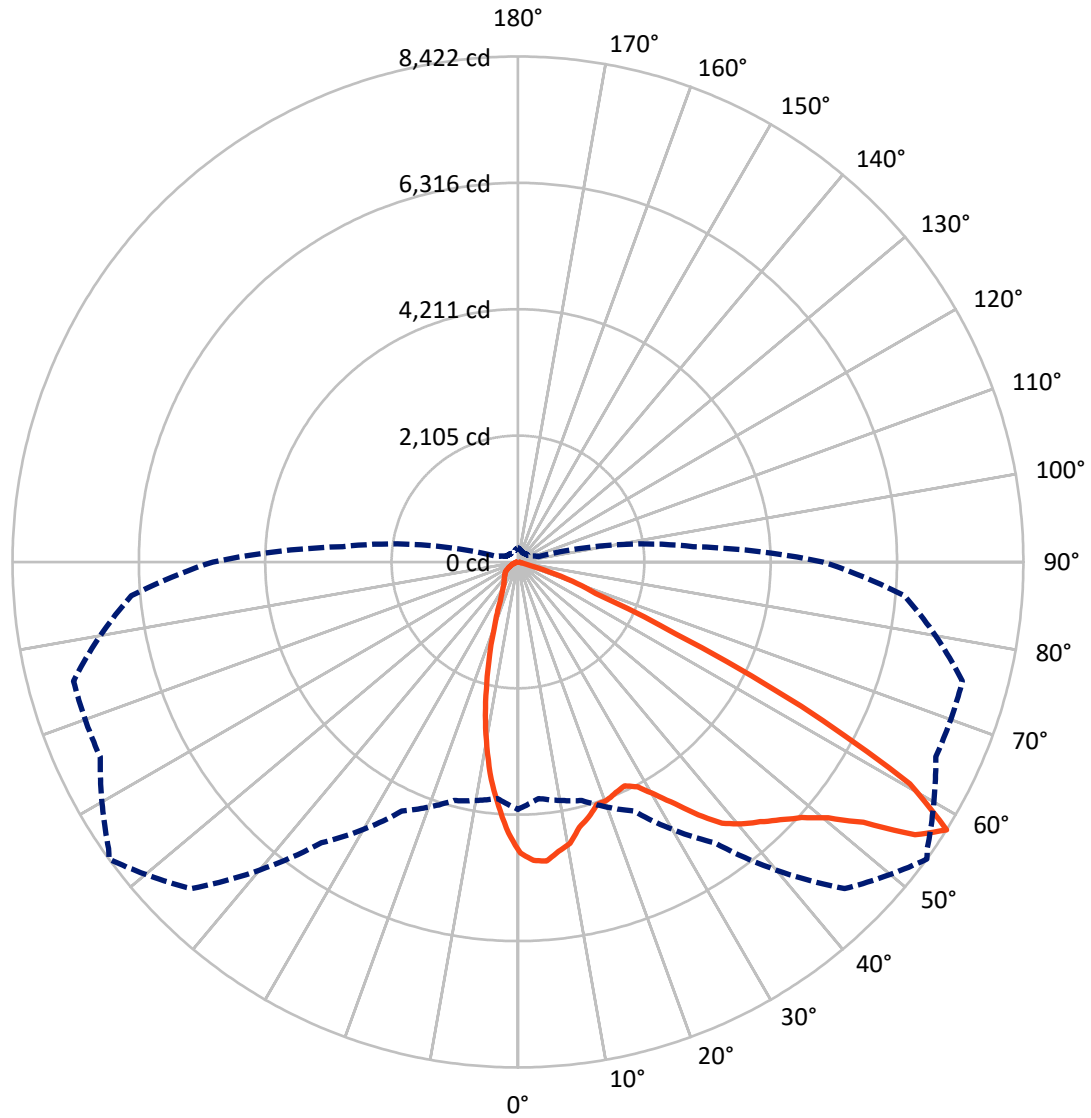
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

REPORT NUMBER: P529091
CATALOG NUMBER: GALN-SA4B-727-U-SL3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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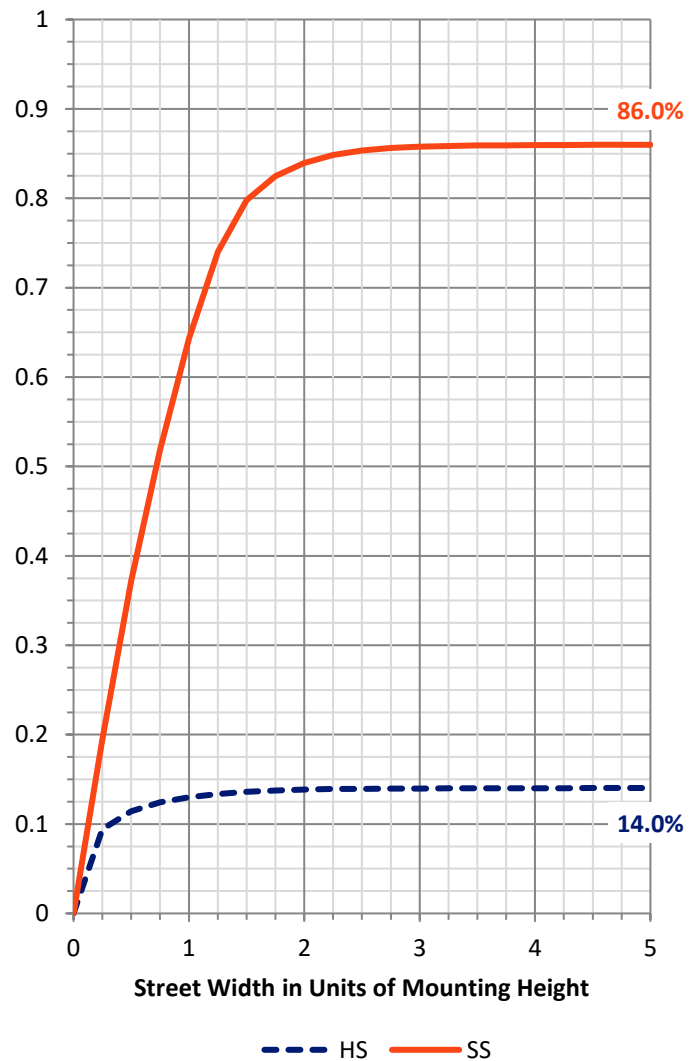
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1555.7	0.0	1555.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	9453.2	0.0	9453.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	11009.0	0.0	11009.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.8	3.7
10°-20°	866.4	7.9
20°-30°	1148.2	10.4
30°-40°	1668.6	15.2
40°-50°	2474.4	22.5
50°-60°	3094.1	28.1
60°-70°	1220.5	11.1
70°-80°	121.5	1.1
80°-90°	9.4	0.1
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°	11009.0	100.0
0°-180°	11009.0	100.0

Coefficient of Utilization

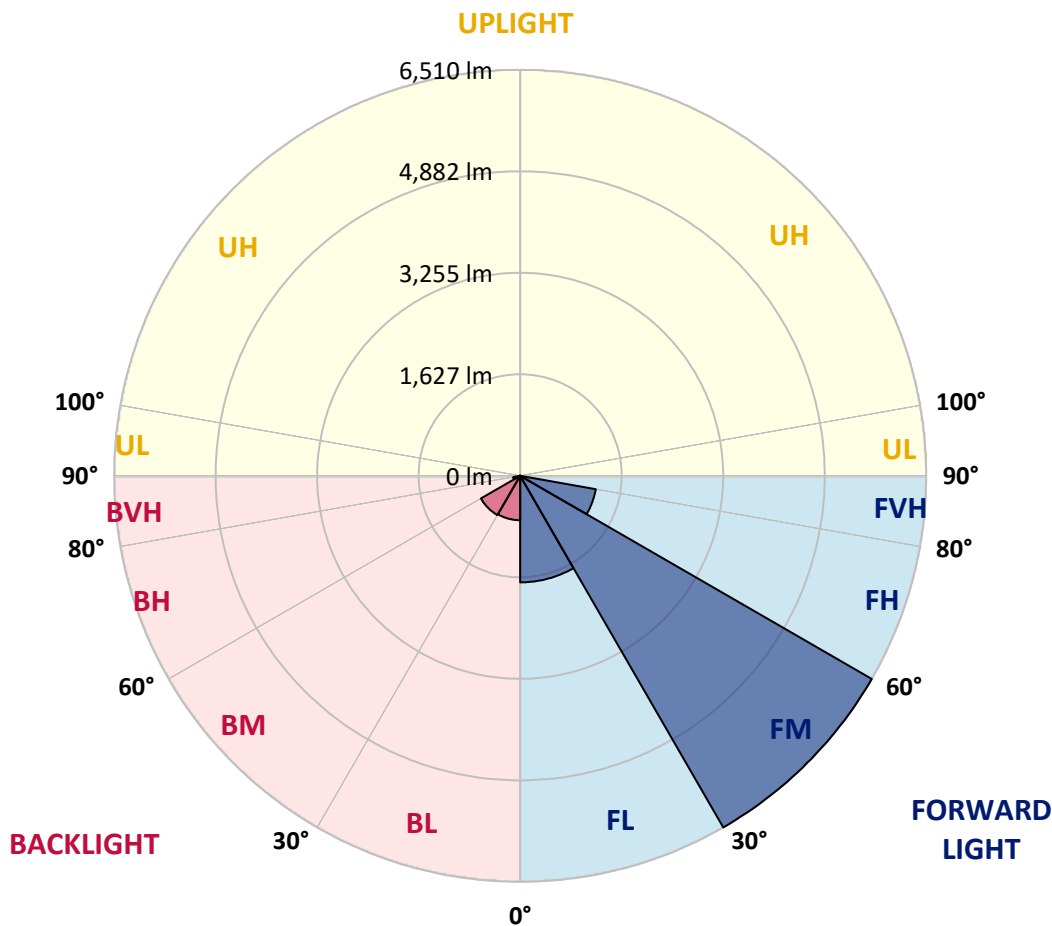


REPORT NUMBER: P529091
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1708.9	15.5			
FM (30°-60°)	6509.6	59.1			
FH (60°-80°)	1230.4	11.2			G1/1800
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	711.5	6.5	B2/1000		
BM (30°-60°)	727.5	6.6	B1/1000		
BH (60°-80°)	111.6	1.0	B1/500		G1/500
BVH (80°-90°)	5.2	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-G1
 Type II Short





REPORT NUMBER: P529091

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4849.6	4849.6	4849.6	4849.6	4849.6	4849.6	4849.6	4849.6	4849.6	4849.6	4849.6
2.5°	5132.1	5078.9	5083.0	5064.6	5040.0	5058.4	4978.6	4997.0	4995.0	4886.5	4814.8
5°	5003.1	5060.5	5001.1	5050.2	5003.1	5054.3	5005.2	4968.3	4909.0	4829.1	4696.1
7.5°	4784.1	4728.8	4745.2	4806.6	4816.9	4931.5	4870.1	4917.2	4892.6	4735.0	4552.8
10°	4344.0	4331.7	4413.6	4495.5	4595.8	4718.6	4765.7	4739.1	4720.6	4661.3	4417.7
12.5°	4006.2	4041.0	4039.0	4174.1	4344.0	4413.6	4536.4	4532.3	4634.7	4524.1	4290.8
15°	3684.8	3703.2	3789.2	3873.1	4061.5	4260.0	4411.5	4432.0	4554.8	4477.0	4192.5
17.5°	3488.3	3461.7	3529.2	3629.5	3822.0	4081.9	4249.8	4298.9	4466.8	4450.4	4079.9
20°	3293.8	3293.8	3349.1	3467.8	3643.9	3936.6	4235.5	4221.1	4466.8	4419.7	3959.1
22.5°	3228.3	3261.1	3275.4	3365.5	3574.3	3826.1	4174.1	4200.7	4501.6	4405.4	3905.9
25°	3318.4	3275.4	3279.5	3351.1	3547.6	3772.8	4129.0	4188.4	4565.1	4477.0	3862.9
27.5°	3332.7	3375.7	3388.0	3437.1	3568.1	3789.2	4241.6	4362.4	4722.7	4644.9	3875.2
30°	3457.6	3500.6	3498.5	3582.4	3672.5	3922.3	4493.4	4518.0	5048.2	4855.8	3950.9
32.5°	3609.1	3654.1	3668.4	3766.7	3838.3	4165.9	4800.5	4863.9	5361.4	5187.4	4149.5
35°	3797.4	3781.0	3846.5	3944.8	4098.3	4522.1	5175.1	5281.6	5699.2	5617.3	4354.2
37.5°	4032.8	4012.3	4075.8	4235.5	4444.3	4943.8	5521.1	5590.7	5944.8	6016.5	4732.9
40°	4198.6	4206.8	4399.2	4614.2	4835.3	5345.0	5740.1	5807.7	6116.8	6389.0	5019.5
42.5°	4475.0	4526.2	4757.5	5019.5	5250.8	5645.9	5918.2	5983.7	6196.6	6687.9	5406.4
45°	4876.2	4853.7	5109.6	5402.3	5658.2	5959.1	6129.1	6106.5	6243.7	6984.8	5650.0
47.5°	5392.1	5396.2	5566.1	5815.9	6082.0	6231.4	6364.5	6284.6	6342.0	7298.0	5975.5
50°	5744.2	5774.9	5912.1	6168.0	6301.0	6530.3	6700.2	6651.1	6632.6	7486.3	6180.2
52.5°	5834.3	5926.4	6000.1	6319.4	6630.6	6992.9	7209.9	7314.3	6986.8	7549.8	6440.2
55°	5154.6	5236.5	5496.5	5934.6	6755.5	7725.8	8024.7	8026.7	7449.4	7832.3	6622.4
57.5°	4120.8	3955.0	4114.7	4579.4	5711.4	7695.1	8421.8	8325.6	7680.8	7666.4	6464.8
60°	2849.6	2808.6	2818.9	3003.1	3953.0	6120.9	7504.7	7629.6	7072.8	6644.9	5117.8
62.5°	2258.0	2223.2	2178.1	2157.7	2454.5	3813.8	5293.8	5469.9	4945.8	4309.2	3033.8
65°	1768.7	1748.2	1754.4	1836.3	1834.2	2163.8	2894.6	2823.0	2260.0	1670.4	954.0
67.5°	1193.5	1224.2	1248.7	1496.4	1623.4	1506.7	1398.2	1357.2	734.9	309.1	210.9
70°	671.5	675.5	702.2	935.5	1232.4	1168.9	964.2	964.2	366.4	112.6	120.8
72.5°	366.4	354.2	329.6	403.3	548.6	556.8	429.9	374.6	108.5	73.7	67.6
75°	178.1	176.1	151.5	124.9	118.7	98.3	75.7	69.6	49.1	47.1	40.9
77.5°	36.8	34.8	18.4	18.4	20.5	22.5	28.7	28.7	34.8	34.8	28.7
80°	0.0	0.0	2.0	8.2	14.3	20.5	24.6	24.6	28.7	28.7	22.5
82.5°	0.0	0.0	2.0	6.1	12.3	18.4	22.5	24.6	28.7	30.7	24.6
85°	0.0	0.0	0.0	4.1	10.2	14.3	12.3	12.3	10.2	8.2	4.1
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4849.6	4849.6	4849.6	4849.6	4849.6	4849.6	4849.6	4849.6	4849.6	4849.6	4849.6
2.5°	4778.0	4773.9	4679.7	4626.5	4530.3	4446.3	4378.8	4329.6	4329.6	4298.9	4270.3
5°	4642.9	4608.1	4407.4	4278.5	4096.3	3961.2	3869.0	3797.4	3684.8	3715.5	3594.7
7.5°	4475.0	4387.0	4120.8	3924.3	3672.5	3480.1	3283.6	3109.6	2941.7	2866.0	2906.9
10°	4294.8	4141.3	3783.1	3471.9	3158.7	2806.6	2577.3	2298.9	2127.0	2116.7	2071.7
12.5°	4104.5	3930.5	3494.4	3064.5	2653.1	2229.3	1879.3	1619.3	1502.6	1373.6	1398.2
15°	3961.2	3703.2	3173.0	2655.1	2108.5	1680.7	1328.6	1128.0	1017.4	986.7	976.5
17.5°	3805.6	3529.2	2845.5	2219.1	1654.1	1209.8	956.0	859.8	816.8	816.8	810.7
20°	3643.9	3332.7	2520.0	1813.7	1240.6	902.8	765.6	734.9	732.9	730.8	730.8
22.5°	3537.4	3107.5	2225.2	1441.2	935.5	722.6	665.3	653.0	661.2	685.8	685.8
25°	3424.8	2890.5	1899.7	1111.6	724.7	620.3	587.5	595.7	616.2	638.7	630.5
27.5°	3310.2	2749.3	1592.7	872.1	593.7	542.5	530.2	548.6	571.1	591.6	585.5
30°	3283.6	2597.8	1302.0	661.2	509.7	472.9	481.1	497.4	520.0	528.2	536.3
32.5°	3324.5	2479.1	1066.5	542.5	444.2	434.0	434.0	442.2	456.5	474.9	468.8
35°	3441.2	2411.5	843.4	470.8	407.4	397.1	395.1	403.3	411.5	417.6	411.5
37.5°	3619.3	2358.3	689.9	417.6	382.8	366.4	362.3	360.3	368.5	370.5	374.6
40°	3846.5	2386.9	585.5	384.9	358.2	339.8	327.5	327.5	327.5	333.7	335.7
42.5°	4092.2	2425.8	505.6	366.4	335.7	313.2	300.9	296.8	300.9	309.1	307.1
45°	4350.1	2501.6	454.5	337.8	315.3	286.6	270.2	266.1	276.4	292.7	290.7
47.5°	4591.7	2610.1	415.6	319.3	294.8	268.2	247.7	243.6	262.0	284.5	286.6
50°	4833.2	2798.4	401.2	305.0	280.5	249.7	231.3	227.2	247.7	276.4	282.5
52.5°	5111.6	3001.1	391.0	286.6	264.1	235.4	214.9	210.9	233.4	270.2	272.3
55°	5293.8	3173.0	382.8	253.8	233.4	212.9	196.5	194.5	219.0	251.8	260.0
57.5°	5080.9	2933.5	354.2	221.1	198.6	188.3	174.0	174.0	194.5	225.2	231.3
60°	3852.7	1930.4	251.8	178.1	167.9	161.7	155.6	155.6	172.0	194.5	196.5
62.5°	2255.9	1039.9	161.7	143.3	143.3	137.2	126.9	126.9	143.3	155.6	157.6
65°	669.4	333.7	131.0	122.8	120.8	110.5	100.3	98.3	110.5	116.7	114.6
67.5°	192.4	153.5	108.5	102.4	100.3	83.9	77.8	75.7	77.8	73.7	71.6
70°	114.6	104.4	83.9	86.0	75.7	61.4	55.3	53.2	49.1	43.0	38.9
72.5°	63.5	63.5	61.4	65.5	53.2	40.9	34.8	28.7	22.5	18.4	16.4
75°	38.9	40.9	43.0	45.0	34.8	26.6	22.5	14.3	8.2	4.1	4.1
77.5°	26.6	28.7	30.7	32.8	28.7	24.6	18.4	10.2	2.0	0.0	0.0
80°	20.5	22.5	26.6	28.7	30.7	32.8	24.6	10.2	2.0	0.0	0.0
82.5°	22.5	24.6	30.7	28.7	28.7	28.7	22.5	10.2	2.0	0.0	0.0
85°	4.1	6.1	10.2	10.2	14.3	18.4	14.3	4.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)