

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: P528701

Luminaire Tested: **GALN-SA3D-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528701
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-SA3D-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA 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: 13505 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

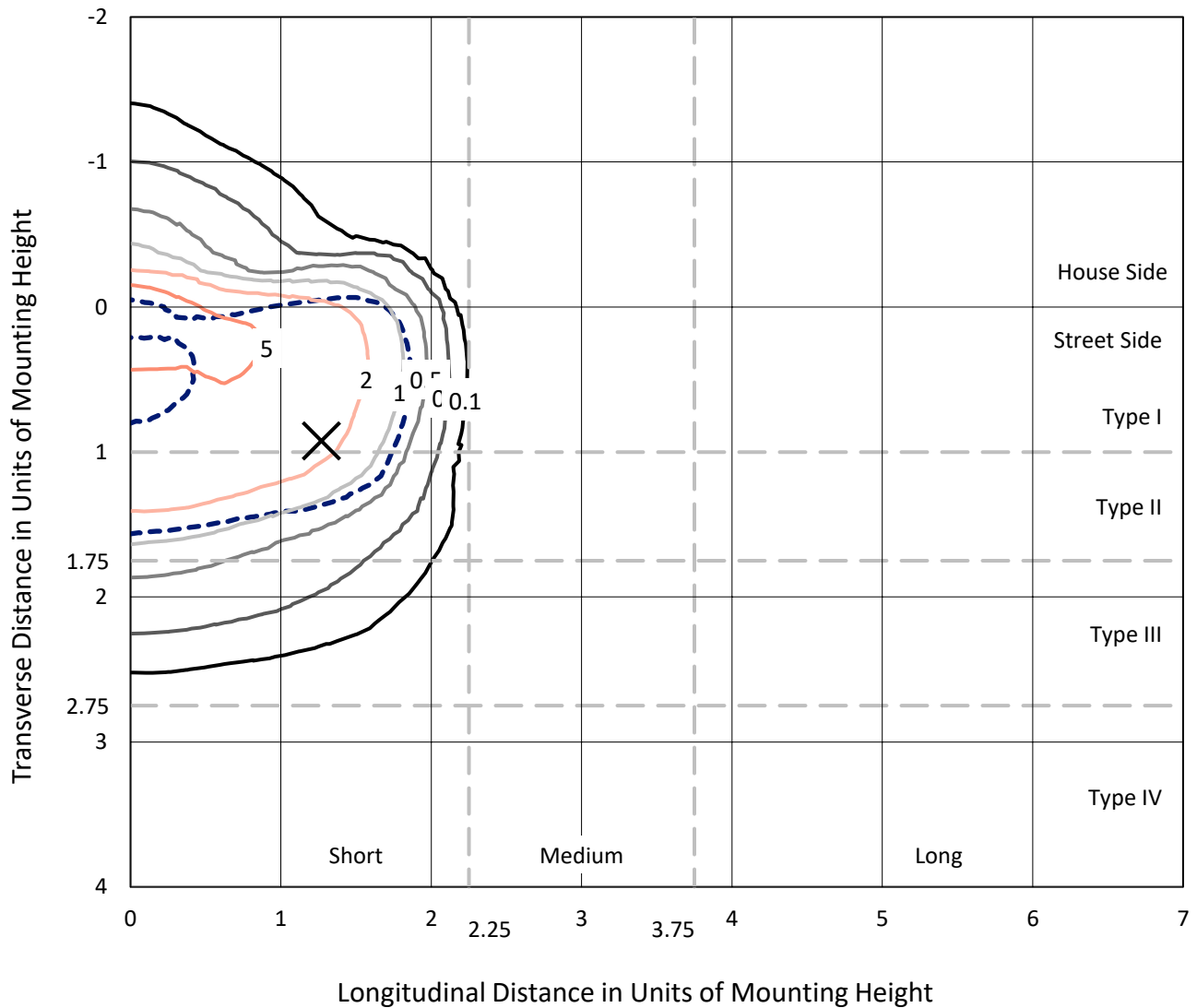
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

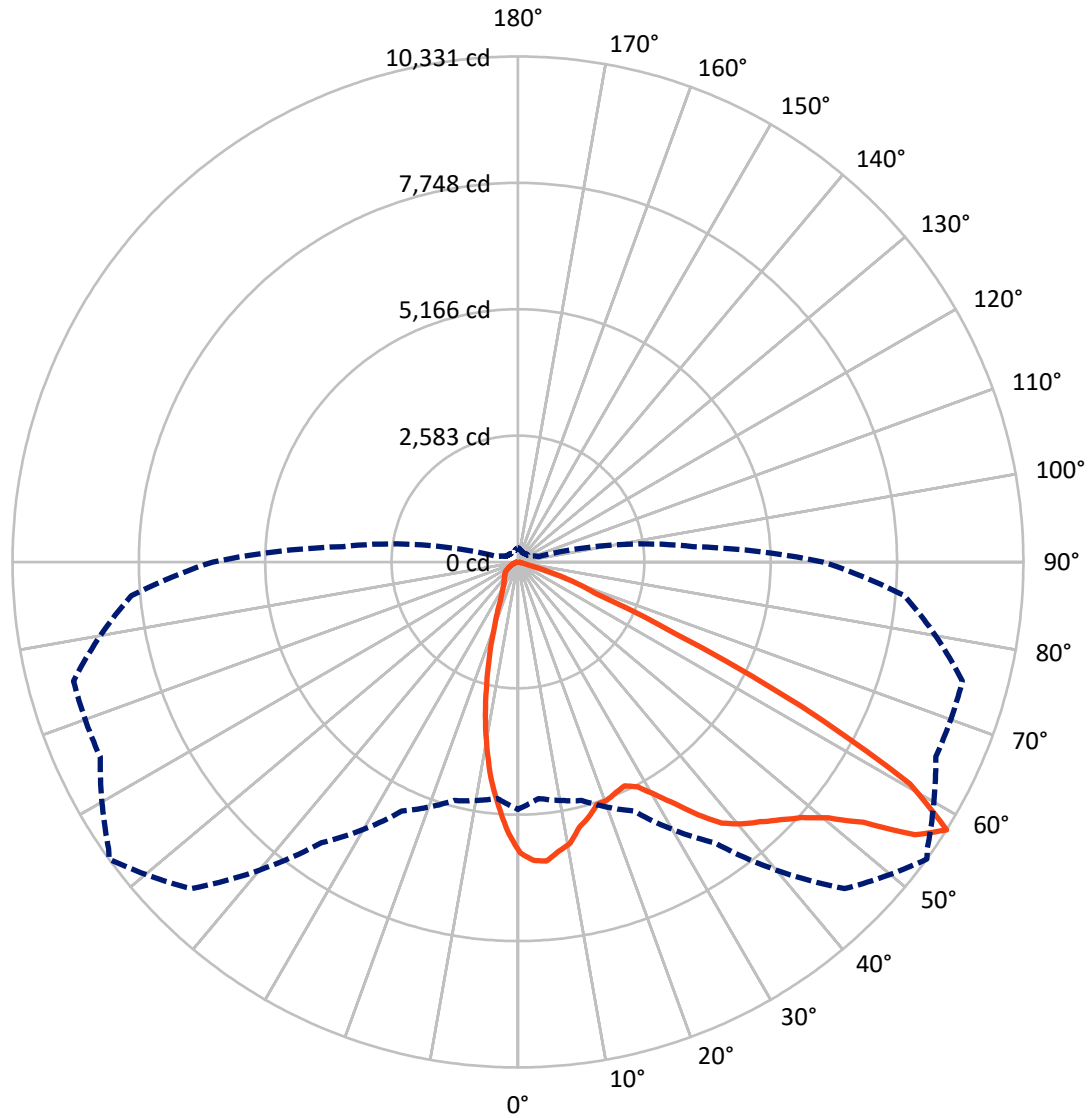
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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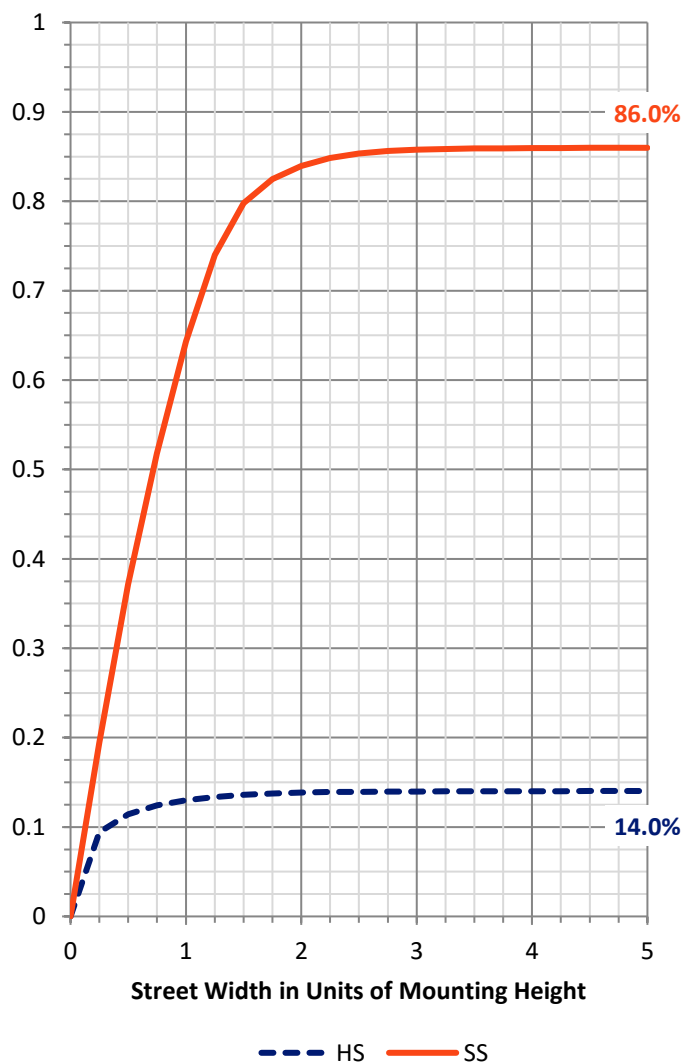
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1908.5	0.0	1908.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11596.5	0.0	11596.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	13505.0	0.0	13505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.8	3.7
10°-20°	1062.9	7.9
20°-30°	1408.5	10.4
30°-40°	2047.0	15.2
40°-50°	3035.4	22.5
50°-60°	3795.6	28.1
60°-70°	1497.2	11.1
70°-80°	149.1	1.1
80°-90°	11.6	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°	13505.0	100.0
0°-180°	13505.0	100.0

Coefficient of Utilization



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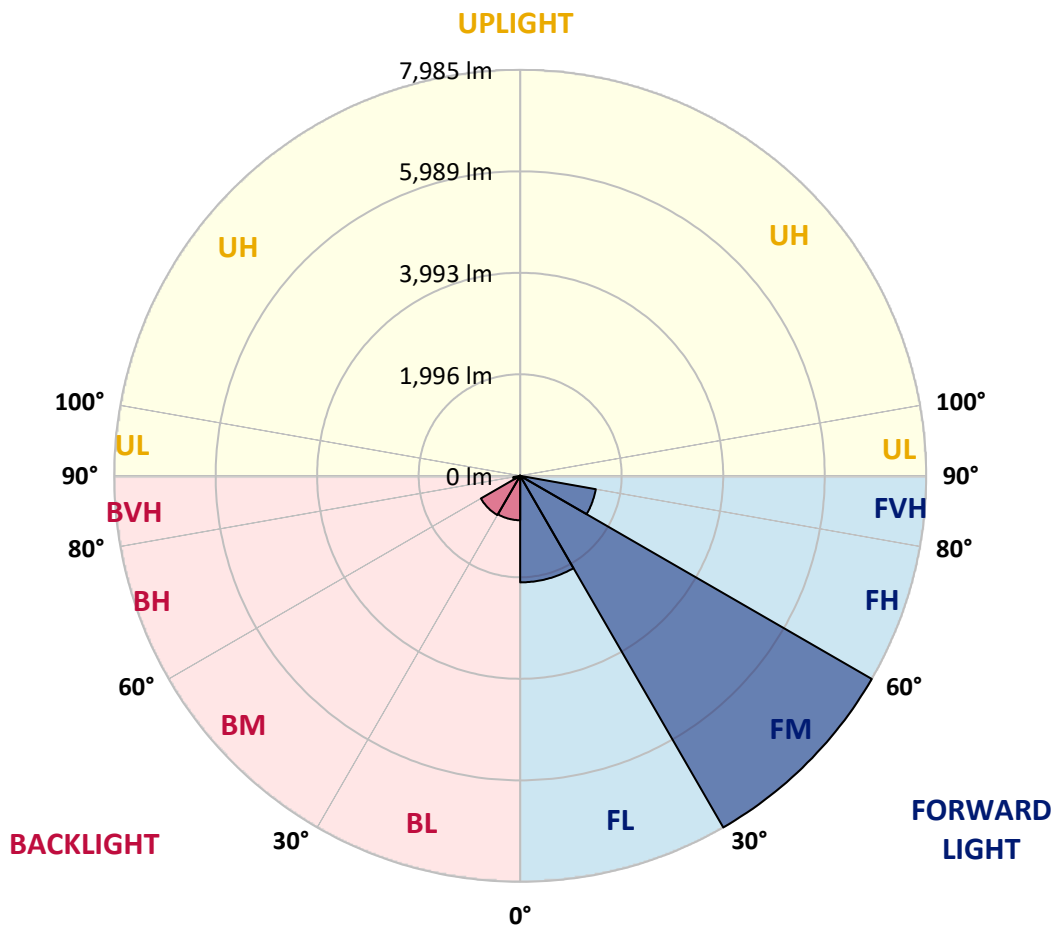
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2096.4	15.5			
FM (30°-60°)	7985.5	59.1			
FH (60°-80°)	1509.4	11.2			G1/1800
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	872.8	6.5	B2/1000		
BM (30°-60°)	892.5	6.6	B1/1000		
BH (60°-80°)	136.9	1.0	B1/500		G1/500
BVH (80°-90°)	6.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5949.1	5949.1	5949.1	5949.1	5949.1	5949.1	5949.1	5949.1	5949.1	5949.1	5949.1
2.5°	6295.7	6230.4	6235.4	6212.8	6182.7	6205.3	6107.3	6129.9	6127.4	5994.3	5906.4
5°	6137.5	6207.8	6135.0	6195.2	6137.5	6200.3	6140.0	6094.8	6022.0	5924.0	5760.8
7.5°	5868.8	5801.0	5821.1	5896.4	5909.0	6049.6	5974.2	6032.0	6001.9	5808.5	5585.0
10°	5328.9	5313.8	5414.2	5514.7	5637.7	5788.4	5846.2	5813.5	5790.9	5718.1	5419.3
12.5°	4914.5	4957.2	4954.7	5120.4	5328.9	5414.2	5564.9	5559.9	5685.5	5549.8	5263.6
15°	4520.2	4542.8	4648.3	4751.3	4982.3	5225.9	5411.7	5436.8	5587.5	5492.1	5143.0
17.5°	4279.2	4246.5	4329.4	4452.4	4688.5	5007.4	5213.3	5273.6	5479.5	5459.4	5004.9
20°	4040.6	4040.6	4108.4	4254.0	4470.0	4829.1	5195.8	5178.2	5479.5	5421.8	4856.7
22.5°	3960.2	4000.4	4018.0	4128.5	4384.6	4693.5	5120.4	5153.1	5522.2	5404.2	4791.5
25°	4070.7	4018.0	4023.0	4110.9	4352.0	4628.2	5065.2	5138.0	5600.1	5492.1	4738.7
27.5°	4088.3	4141.0	4156.1	4216.4	4377.1	4648.3	5203.3	5351.5	5793.4	5698.0	4753.8
30°	4241.5	4294.2	4291.7	4394.7	4505.2	4811.5	5512.2	5542.3	6192.7	5956.7	4846.7
32.5°	4427.3	4482.6	4500.1	4620.7	4708.6	5110.4	5888.9	5966.7	6576.9	6363.5	5090.3
35°	4658.4	4638.3	4718.6	4839.2	5027.5	5547.3	6348.4	6479.0	6991.3	6890.9	5341.4
37.5°	4947.1	4922.0	4999.9	5195.8	5451.9	6064.7	6772.8	6858.2	7292.6	7380.5	5806.0
40°	5150.6	5160.6	5396.7	5660.3	5931.6	6556.9	7041.5	7124.4	7503.6	7837.6	6157.6
42.5°	5489.6	5552.4	5836.1	6157.6	6441.3	6926.0	7260.0	7340.4	7601.5	8204.2	6632.2
45°	5981.8	5954.2	6268.1	6627.2	6941.1	7310.2	7518.7	7491.0	7659.3	8568.4	6931.0
47.5°	6614.6	6619.6	6828.1	7134.4	7460.9	7644.2	7807.5	7709.5	7779.8	8952.6	7330.3
50°	7046.5	7084.2	7252.5	7566.4	7729.6	8010.9	8219.3	8159.0	8136.4	9183.6	7581.4
52.5°	7157.0	7270.0	7360.5	7752.2	8133.9	8578.4	8844.6	8972.7	8570.9	9261.5	7900.4
55°	6323.3	6423.8	6742.7	7280.1	8287.1	9477.4	9844.1	9846.6	9138.4	9608.0	8123.9
57.5°	5055.1	4851.7	5047.6	5617.7	7006.4	9439.8	10331.3	10213.2	9422.2	9404.6	7930.5
60°	3495.7	3445.4	3458.0	3684.0	4849.2	7508.6	9206.2	9359.4	8676.3	8151.5	6278.1
62.5°	2769.9	2727.2	2672.0	2646.8	3011.0	4678.4	6494.1	6710.0	6067.2	5286.2	3721.7
65°	2169.7	2144.6	2152.1	2252.6	2250.1	2654.4	3550.9	3463.0	2772.4	2049.2	1170.2
67.5°	1464.1	1501.7	1531.9	1835.7	1991.4	1848.3	1715.2	1665.0	901.5	379.2	258.7
70°	823.7	828.7	861.4	1147.6	1511.8	1433.9	1182.8	1182.8	449.5	138.1	148.2
72.5°	449.5	434.4	404.3	494.7	673.0	683.1	527.4	459.6	133.1	90.4	82.9
75°	218.5	216.0	185.8	153.2	145.7	120.5	92.9	85.4	60.3	57.8	50.2
77.5°	45.2	42.7	22.6	22.6	25.1	27.6	35.2	35.2	42.7	42.7	35.2
80°	0.0	0.0	2.5	10.0	17.6	25.1	30.1	30.1	35.2	35.2	27.6
82.5°	0.0	0.0	2.5	7.5	15.1	22.6	27.6	30.1	35.2	37.7	30.1
85°	0.0	0.0	0.0	5.0	12.6	17.6	15.1	15.1	12.6	10.0	5.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5949.1	5949.1	5949.1	5949.1	5949.1	5949.1	5949.1	5949.1	5949.1	5949.1	5949.1
2.5°	5861.2	5856.2	5740.7	5675.4	5557.4	5454.4	5371.5	5311.3	5311.3	5273.6	5238.5
5°	5695.5	5652.8	5406.7	5248.5	5025.0	4859.3	4746.2	4658.4	4520.2	4557.9	4409.7
7.5°	5489.6	5381.6	5055.1	4814.1	4505.2	4269.1	4028.0	3814.6	3608.7	3515.7	3566.0
10°	5268.6	5080.2	4640.8	4259.1	3874.8	3442.9	3161.7	2820.1	2609.2	2596.6	2541.4
12.5°	5035.0	4821.6	4286.7	3759.3	3254.6	2734.7	2305.3	1986.4	1843.3	1685.0	1715.2
15°	4859.3	4542.8	3892.4	3257.1	2586.6	2061.7	1629.8	1383.7	1248.1	1210.4	1197.9
17.5°	4668.4	4329.4	3490.6	2722.2	2029.1	1484.1	1172.8	1054.7	1002.0	1002.0	994.5
20°	4470.0	4088.3	3091.3	2225.0	1521.8	1107.5	939.2	901.5	899.0	896.5	896.5
22.5°	4339.4	3812.1	2729.7	1767.9	1147.6	886.5	816.2	801.1	811.1	841.3	841.3
25°	4201.3	3545.9	2330.4	1363.6	889.0	760.9	720.7	730.8	755.9	783.5	773.5
27.5°	4060.7	3372.6	1953.7	1069.8	728.3	665.5	650.4	673.0	700.6	725.7	718.2
30°	4028.0	3186.8	1597.2	811.1	625.3	580.1	590.1	610.2	637.9	647.9	657.9
32.5°	4078.3	3041.1	1308.4	665.5	544.9	532.4	532.4	542.4	560.0	582.6	575.1
35°	4221.4	2958.2	1034.6	577.6	499.7	487.2	484.7	494.7	504.8	512.3	504.8
37.5°	4439.9	2893.0	846.3	512.3	469.6	449.5	444.5	442.0	452.0	454.5	459.6
40°	4718.6	2928.1	718.2	472.1	439.5	416.9	401.8	401.8	401.8	409.3	411.8
42.5°	5020.0	2975.8	620.3	449.5	411.8	384.2	369.2	364.1	369.2	379.2	376.7
45°	5336.4	3068.7	557.5	414.4	386.7	351.6	331.5	326.5	339.0	359.1	356.6
47.5°	5632.7	3201.8	509.8	391.8	361.6	329.0	303.9	298.8	321.4	349.1	351.6
50°	5929.0	3432.9	492.2	374.2	344.0	306.4	283.8	278.7	303.9	339.0	346.6
52.5°	6270.6	3681.5	479.6	351.6	324.0	288.8	263.7	258.7	286.3	331.5	334.0
55°	6494.1	3892.4	469.6	311.4	286.3	261.2	241.1	238.6	268.7	308.9	318.9
57.5°	6232.9	3598.6	434.4	271.2	243.6	231.0	213.5	213.5	238.6	276.2	283.8
60°	4726.2	2368.1	308.9	218.5	205.9	198.4	190.9	190.9	210.9	238.6	241.1
62.5°	2767.4	1275.7	198.4	175.8	175.8	168.3	155.7	155.7	175.8	190.9	193.4
65°	821.2	409.3	160.7	150.7	148.2	135.6	123.1	120.5	135.6	143.1	140.6
67.5°	236.1	188.3	133.1	125.6	123.1	103.0	95.4	92.9	95.4	90.4	87.9
70°	140.6	128.1	103.0	105.5	92.9	75.3	67.8	65.3	60.3	52.7	47.7
72.5°	77.8	77.8	75.3	80.4	65.3	50.2	42.7	35.2	27.6	22.6	20.1
75°	47.7	50.2	52.7	55.2	42.7	32.6	27.6	17.6	10.0	5.0	5.0
77.5°	32.6	35.2	37.7	40.2	35.2	30.1	22.6	12.6	2.5	0.0	0.0
80°	25.1	27.6	32.6	35.2	37.7	40.2	30.1	12.6	2.5	0.0	0.0
82.5°	27.6	30.1	37.7	35.2	35.2	35.2	27.6	12.6	2.5	0.0	0.0
85°	5.0	7.5	12.6	12.6	17.6	22.6	17.6	5.0	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)