

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: P651069

Luminaire Tested: **GALN-SA8C-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40391.5 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

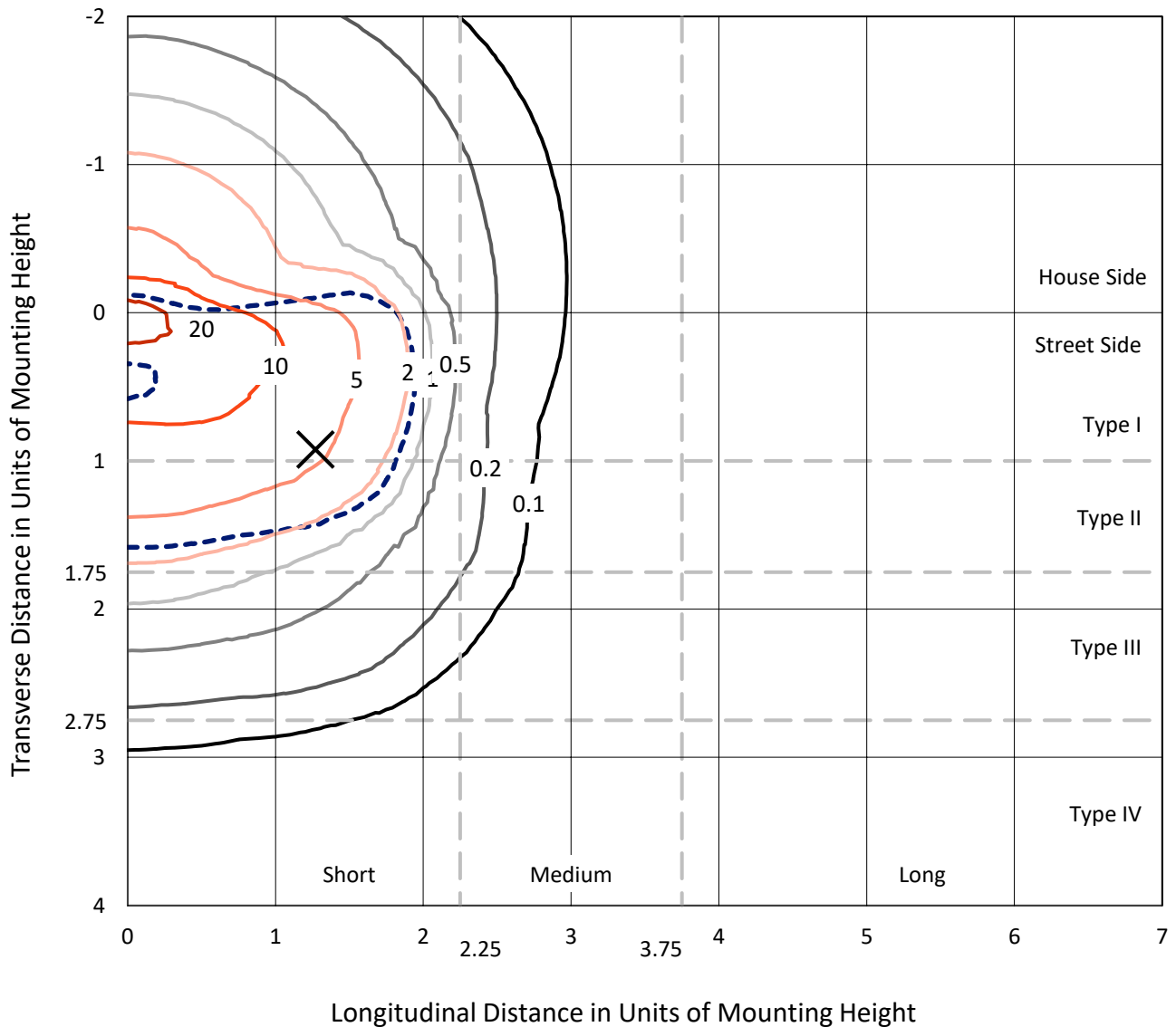
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

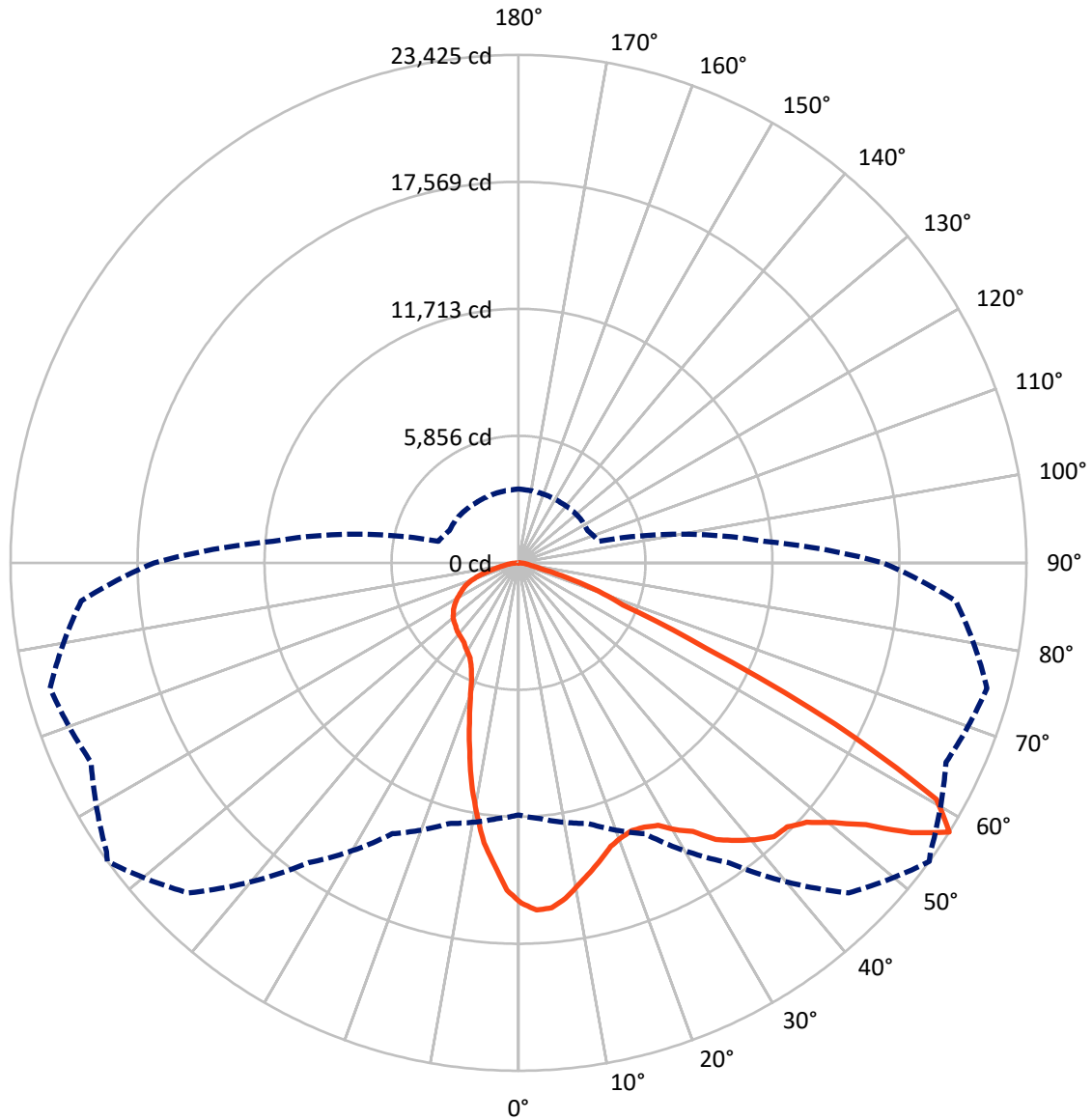
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.1 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	11174.5	0.0	11174.5
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	29217.0	0.0	29217.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	40391.5	0.0	40391.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1354.0	3.4
10°-20°	3134.9	7.8
20°-30°	4404.6	10.9
30°-40°	6157.6	15.2
40°-50°	8336.2	20.6
50°-60°	10153.9	25.1
60°-70°	5288.6	13.1
70°-80°	1355.1	3.4
80°-90°	206.7	0.5
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°	40391.5	100.0
0°-180°	40391.5	100.0

Coefficient of Utilization

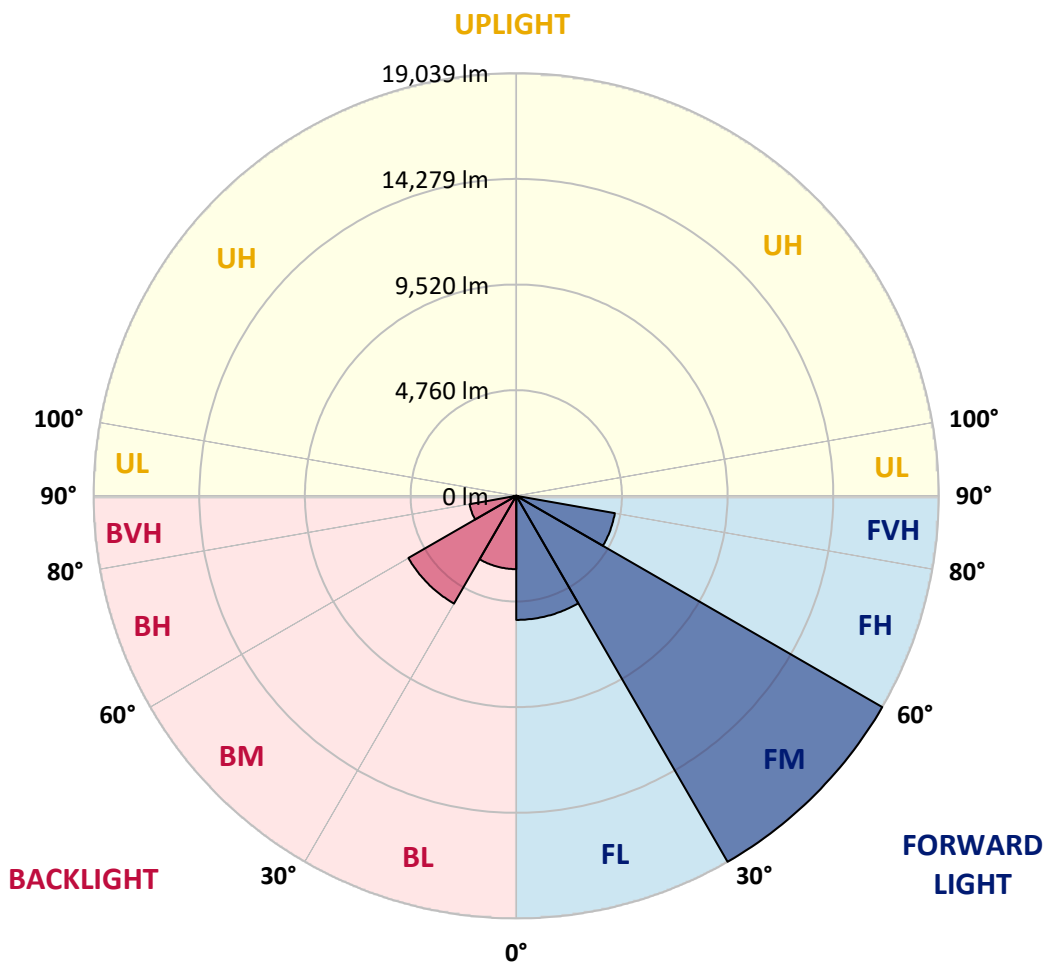


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5590.7	13.8			
FM (30°-60°)	19039.3	47.1			
FH (60°-80°)	4508.8	11.2			G2/5000
FVH (80°-90°)	78.1	0.2			G1/100
BL (0°-30°)	3302.6	8.2	B4/5000		
BM (30°-60°)	5608.4	13.9	B4/8500		
BH (60°-80°)	2134.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	128.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	15699.7	15699.7	15699.7	15699.7	15699.7	15699.7	15699.7	15699.7	15699.7	15699.7	15699.7
2.5°	16146.2	16084.0	16094.3	16177.4	16073.5	16032.0	16032.0	15829.6	15845.1	15704.9	15668.6
5°	15772.5	15627.0	15725.7	15850.3	15871.1	15912.6	15980.1	15928.2	15782.8	15632.3	15388.2
7.5°	14796.4	14926.2	14962.5	15050.8	15237.7	15409.0	15621.8	15476.5	15471.3	15320.7	15175.3
10°	13939.7	13861.9	14059.2	14188.9	14500.4	14786.0	15113.1	15097.5	15175.3	15004.0	14754.8
12.5°	13088.3	13026.0	13119.4	13415.4	13851.5	14266.8	14656.2	14510.9	14926.2	14895.0	14360.2
15°	12184.9	12231.7	12366.7	12641.8	13212.9	13711.3	14204.5	14209.7	14578.3	14703.0	13986.5
17.5°	11551.6	11499.7	11671.0	12081.1	12589.9	13187.0	13747.7	13861.9	14427.8	14500.4	13872.2
20°	11079.1	11151.8	11375.0	11582.7	12169.4	12891.0	13524.4	13565.9	14396.6	14593.9	13690.6
22.5°	10964.9	10923.3	10996.1	11333.5	11816.3	12600.3	13405.0	13560.8	14391.4	14562.8	13347.8
25°	10845.5	10980.4	10975.3	11312.7	11665.8	12366.7	13503.6	13675.0	14666.6	14723.7	13394.6
27.5°	11115.4	11099.9	11245.3	11271.2	11707.3	12429.0	13711.3	13841.1	15123.5	15076.7	13430.9
30°	11385.5	11307.6	11395.8	11702.1	11904.6	12787.2	14282.4	14272.0	15715.3	15684.1	13545.1
32.5°	11717.7	11681.3	11738.4	12008.4	12351.1	13264.8	14765.2	15071.6	16317.6	16514.8	13939.7
35°	11780.0	11930.5	12065.6	12429.0	12917.0	14038.4	15673.8	15928.2	17013.3	17631.1	14692.5
37.5°	12174.6	12231.7	12548.4	13192.1	13638.6	15071.6	16250.1	16411.0	17646.6	18347.5	15486.8
40°	12595.1	12662.6	13140.2	13815.1	14427.8	15746.5	16790.0	16842.0	17849.1	18897.9	16006.1
42.5°	13166.2	13228.5	13700.9	14547.2	15367.4	16322.7	17267.7	17324.8	17833.5	19531.2	16831.5
45°	13758.0	13908.6	14464.1	15424.6	16161.8	16997.6	17376.7	17610.3	17978.9	20097.1	17501.3
47.5°	14588.7	14728.9	15185.8	16125.4	16987.3	17589.5	17880.2	18108.7	18326.7	20590.3	17932.1
50°	15471.3	15497.3	16052.8	16904.2	17537.6	18259.2	18820.0	18897.9	18783.6	21161.4	18664.2
52.5°	16120.3	16203.3	16634.2	17464.9	18409.8	19297.6	20065.9	20149.0	19925.8	21374.3	18913.4
55°	15045.6	14998.8	15699.7	16805.5	18996.5	20844.7	21960.9	22023.3	20756.5	22033.6	19728.5
57.5°	11629.4	11852.6	12449.7	13784.0	16878.3	21530.0	23425.0	23201.8	21753.3	22365.9	20247.7
60°	8452.1	8400.2	8800.0	9692.9	12719.7	18555.2	22147.8	22376.2	20938.2	20159.4	16696.5
62.5°	6884.2	6811.5	6842.7	6873.8	8208.1	12314.8	16395.5	16390.2	16125.4	14490.1	11260.8
65°	5503.3	5674.6	5690.1	5923.8	6095.1	7356.6	9500.9	10009.6	8716.9	7149.0	5186.5
67.5°	4148.1	4085.9	4293.6	5124.2	5446.1	5311.1	5186.5	5243.6	3727.6	2689.3	2533.6
70°	2445.3	2419.3	2668.6	3571.9	4485.6	4220.9	3909.4	3914.5	2559.5	1879.4	2092.2
72.5°	1339.5	1334.2	1386.2	1811.9	2549.2	2647.8	2346.6	2419.3	1526.3	1521.2	1635.4
75°	747.6	732.0	716.4	799.5	919.0	970.9	991.6	1002.0	1048.7	1173.4	1220.0
77.5°	275.2	264.7	264.7	306.3	389.4	488.0	617.8	628.2	742.4	851.4	898.2
80°	93.4	103.9	140.2	192.1	259.6	347.8	420.5	430.9	524.4	597.0	612.6
82.5°	57.1	62.3	93.4	135.0	186.9	244.0	311.5	316.7	389.4	436.1	456.8
85°	26.0	31.1	51.9	83.1	119.4	161.0	166.1	166.1	161.0	166.1	155.8
87.5°	0.0	0.0	10.3	10.3	10.3	15.6	20.8	15.6	26.0	31.1	31.1
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°	15699.7	15699.7	15699.7	15699.7	15699.7	15699.7	15699.7	15699.7	15699.7	15699.7	15699.7
2.5°	15559.6	15502.4	15326.0	15170.2	15123.5	14915.8	14609.4	14645.8	14422.6	14526.4	14417.3
5°	15346.7	15154.6	14703.0	14510.9	14007.3	13778.8	13623.0	13233.6	13052.0	13015.7	12859.9
7.5°	14801.6	14682.2	14116.3	13597.1	13062.3	12605.5	12018.8	11619.1	11333.5	11255.6	11027.2
10°	14370.7	14105.8	13321.9	12532.8	11769.6	10975.3	10212.1	9615.1	9324.3	8986.8	8872.6
12.5°	13945.0	13545.1	12486.1	11473.7	10487.3	9485.2	8561.1	7834.3	7200.9	7050.4	6998.5
15°	13680.1	12984.5	11738.4	10518.4	9116.6	7808.3	6884.2	6406.6	6017.2	5856.2	5970.4
17.5°	13332.3	12522.4	11022.0	9397.0	7855.0	6650.5	5877.0	5581.1	5440.9	5456.5	5409.7
20°	12896.2	12086.3	10082.3	8379.4	6728.4	5768.0	5326.7	5217.6	5238.4	5274.8	5259.2
22.5°	12584.7	11556.8	9402.2	7341.1	5814.7	5280.0	5098.2	5020.3	5087.9	5119.0	5093.1
25°	12345.9	11105.1	8576.7	6422.1	5285.2	5004.8	4921.7	4916.6	5020.3	5061.9	5036.0
27.5°	12127.8	10684.6	7756.4	5721.2	4932.1	4791.9	4766.0	4828.3	4895.8	4937.3	4973.7
30°	11998.0	10362.6	6988.0	5134.6	4755.6	4688.2	4641.4	4698.5	4734.8	4776.4	4755.6
32.5°	12122.7	10134.2	6245.6	4802.4	4610.3	4542.7	4605.1	4568.7	4631.0	4667.4	4610.3
35°	12512.1	9931.7	5716.1	4625.8	4444.1	4470.1	4480.4	4464.9	4490.9	4459.7	4527.2
37.5°	12896.2	9859.0	5228.1	4475.2	4366.2	4366.2	4355.9	4324.7	4376.6	4366.2	4397.3
40°	13384.3	9905.8	4812.7	4314.3	4293.6	4283.1	4241.7	4236.5	4215.7	4220.9	4231.2
42.5°	13810.0	10009.6	4573.9	4210.5	4226.0	4246.8	4168.9	4106.6	4132.6	4080.7	4080.7
45°	14261.6	10103.1	4361.0	4137.8	4122.2	4117.0	4054.7	4018.4	3997.6	4002.8	4049.5
47.5°	14972.9	10238.1	4200.1	4039.2	4049.5	3971.6	3956.1	3909.4	3930.2	3961.3	3966.5
50°	15476.5	10523.6	4075.5	3924.9	3961.3	3909.4	3815.9	3795.2	3795.2	3847.1	3836.6
52.5°	15829.6	10923.3	3956.1	3800.3	3815.9	3774.4	3743.2	3696.5	3665.3	3738.0	3774.4
55°	16909.4	11587.9	3924.9	3696.5	3691.3	3649.8	3592.7	3545.9	3530.3	3540.8	3613.4
57.5°	16805.5	11380.2	3826.3	3514.8	3504.4	3447.3	3390.2	3374.6	3369.4	3379.8	3400.6
60°	13643.8	8405.4	3416.1	3307.1	3291.5	3281.2	3224.1	3161.7	3130.6	3161.7	3135.8
62.5°	9028.4	5627.8	3011.2	3057.9	3068.3	3042.3	2948.9	2886.6	2897.0	2933.3	2876.2
65°	4433.8	3307.1	2730.8	2855.4	2865.8	2793.1	2704.9	2632.2	2595.8	2627.0	2601.0
67.5°	2533.6	2528.4	2502.4	2632.2	2627.0	2554.3	2414.2	2351.9	2289.5	2300.0	2284.3
70°	2149.3	2190.9	2242.8	2320.7	2315.5	2232.4	2066.3	2019.6	1931.4	1920.9	1894.9
72.5°	1692.5	1765.2	1879.4	1936.5	1889.8	1785.9	1677.0	1599.1	1521.2	1474.4	1490.0
75°	1256.4	1360.2	1422.6	1458.9	1386.2	1329.1	1240.8	1147.4	1053.9	1012.4	996.8
77.5°	913.7	944.9	1002.0	1028.0	981.2	924.1	872.2	778.8	690.5	633.4	617.8
80°	638.6	659.3	700.9	700.9	700.9	674.9	607.5	514.0	456.8	404.9	394.6
82.5°	446.5	467.3	508.8	488.0	482.8	451.7	410.2	337.5	275.2	238.8	228.4
85°	155.8	171.3	207.6	249.2	264.7	259.6	233.6	186.9	145.4	119.4	109.0
87.5°	36.3	36.3	41.5	36.3	36.3	41.5	36.3	36.3	36.3	26.0	20.8
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)