

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P638524

Luminaire Tested: GWS-SA4F-722-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-722-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14716.3 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

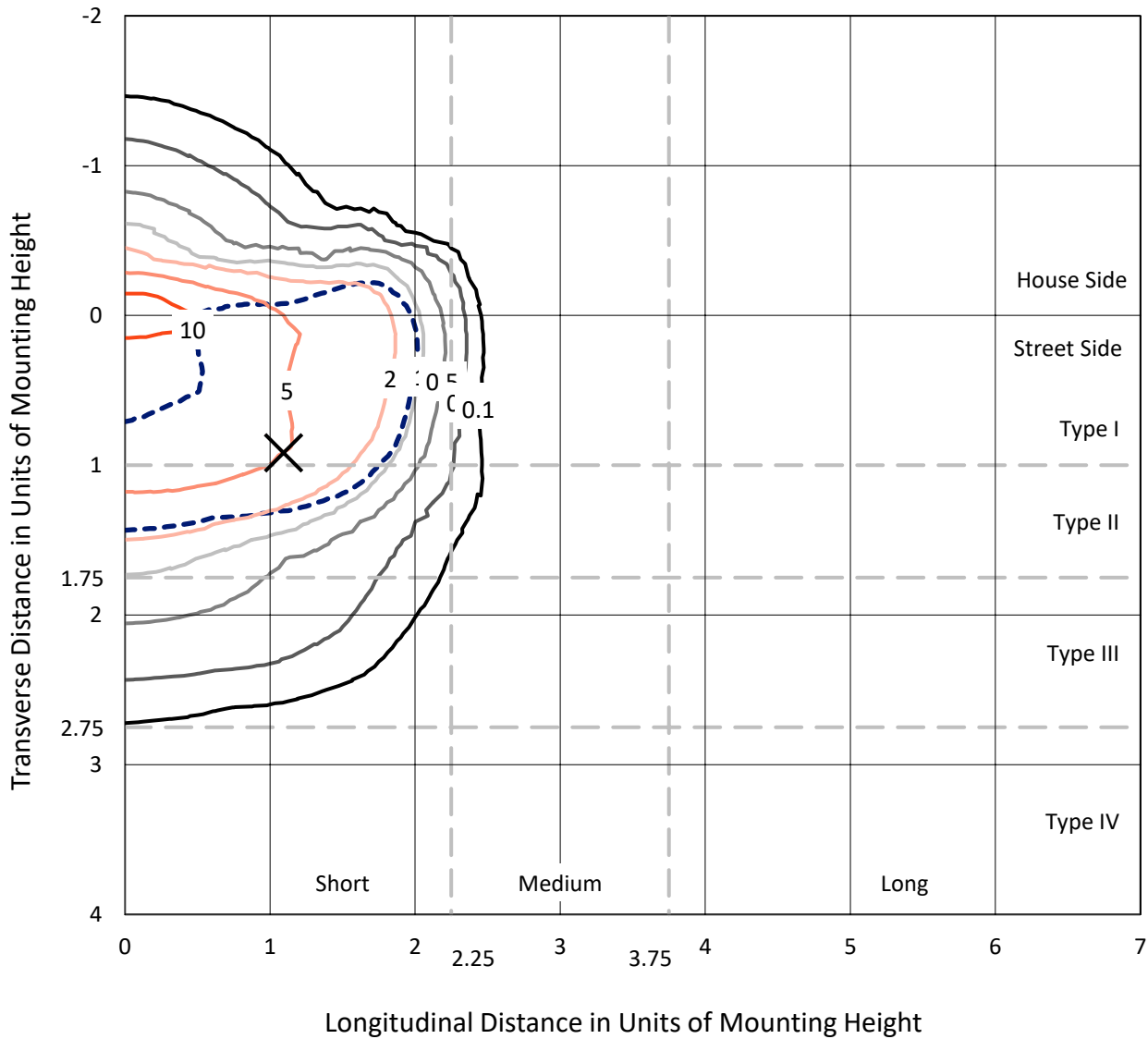
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

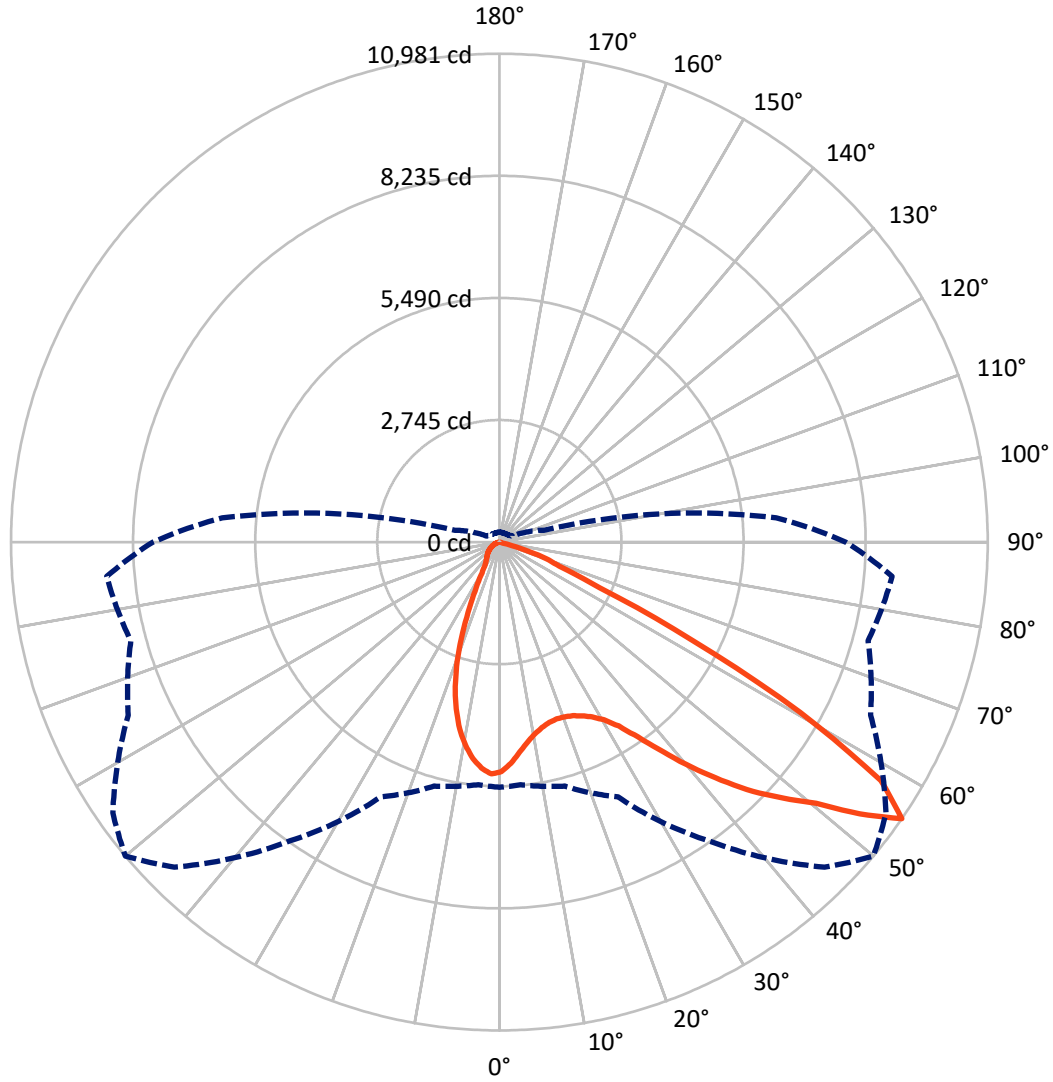
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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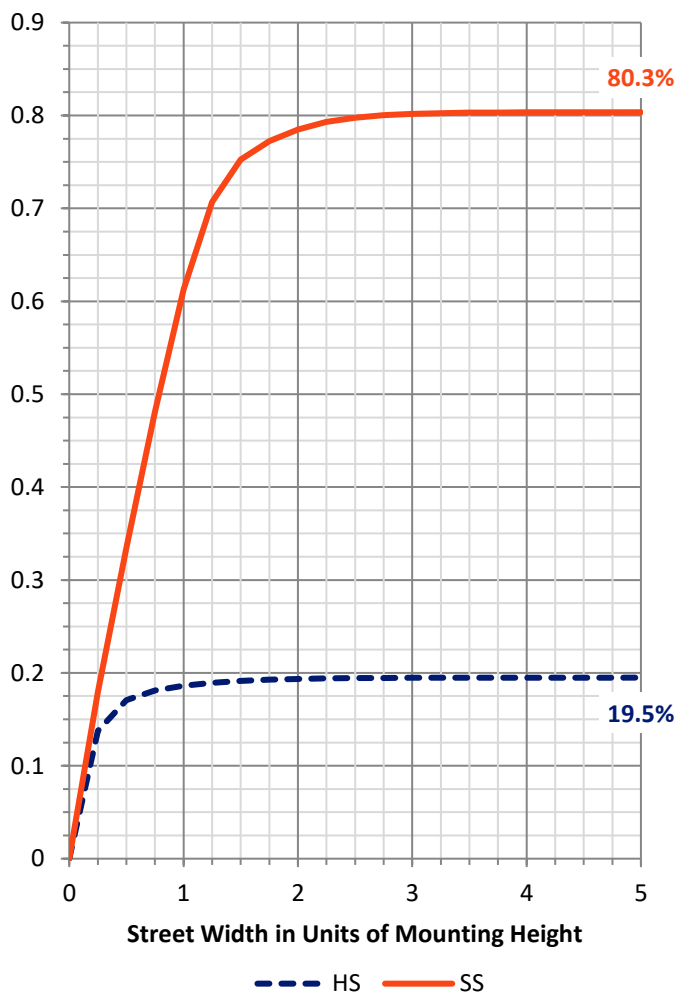
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2899.8	0.0	2899.8
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	11816.5	0.0	11816.5
	% Fixture	80.3	0.0	80.3
Total	Lumens	14716.3	0.0	14716.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.4	3.1
10°-20°	1115.9	7.6
20°-30°	1573.9	10.7
30°-40°	2329.1	15.8
40°-50°	3360.2	22.8
50°-60°	3963.6	26.9
60°-70°	1768.1	12.0
70°-80°	152.0	1.0
80°-90°	0.1	0.0
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°	14716.3	100.0
0°-180°	14716.3	100.0

Coefficient of Utilization



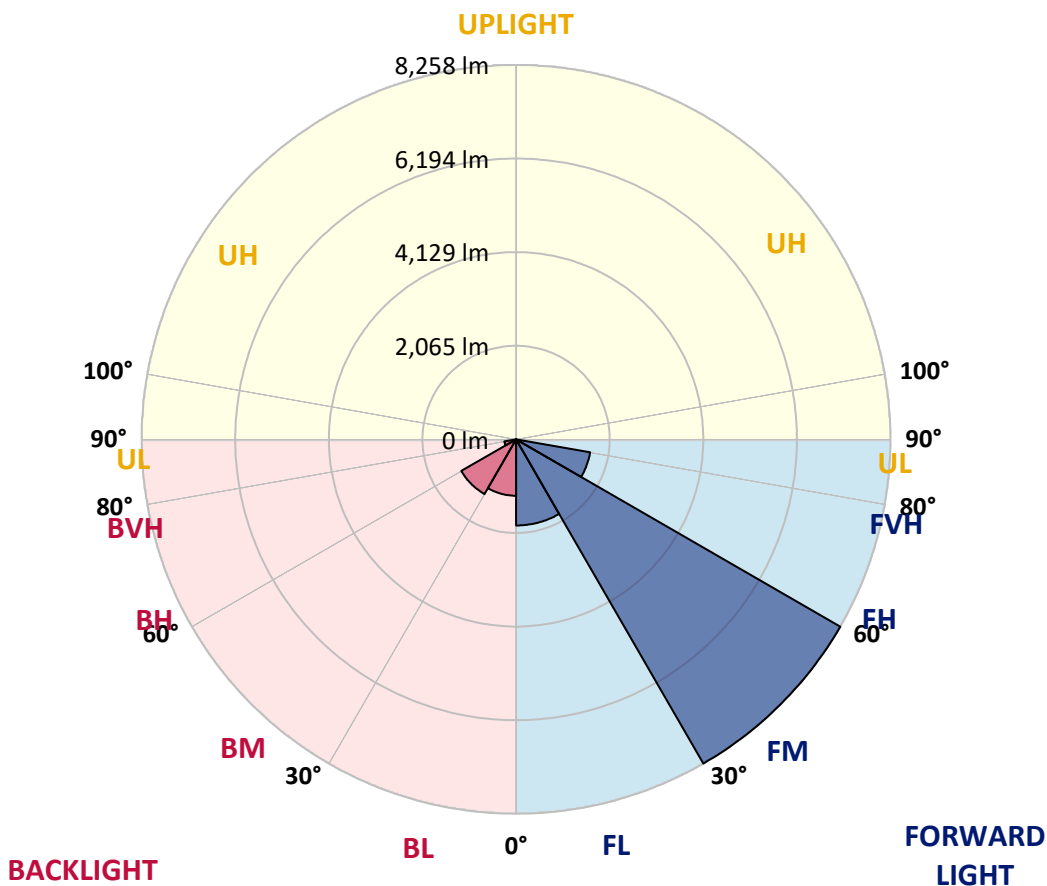
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1899.9	12.9			
FM (30°-60°)	8258.3	56.1			
FH (60°-80°)	1658.3	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1243.3	8.4	B3/2500		
BM (30°-60°)	1394.6	9.5	B2/2500		
BH (60°-80°)	261.8	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3
2.5°	4796.8	4800.4	4802.2	4850.7	4868.7	4940.5	4978.3	4998.0	5050.1	5111.2	5161.5
5°	4475.2	4469.8	4478.8	4539.9	4579.4	4685.4	4742.9	4782.4	4897.4	5041.1	5161.5
7.5°	4195.0	4205.7	4216.5	4283.0	4342.3	4457.3	4539.9	4599.2	4759.1	4972.9	5175.9
10°	3997.3	3997.3	4013.5	4089.0	4159.0	4301.0	4383.6	4459.0	4649.5	4911.8	5192.0
12.5°	3851.8	3853.6	3873.4	3959.6	4040.5	4187.8	4274.0	4347.7	4557.9	4850.7	5195.6
15°	3783.5	3778.2	3794.3	3885.9	3975.8	4114.1	4203.9	4275.8	4493.2	4816.6	5213.6
17.5°	3765.6	3762.0	3774.6	3864.4	3956.0	4090.8	4178.8	4250.6	4484.2	4827.3	5267.5
20°	3817.7	3810.5	3805.1	3882.4	3968.6	4101.5	4193.2	4274.0	4527.3	4886.6	5350.1
22.5°	3941.6	3941.6	3929.1	3966.8	4024.3	4144.7	4239.9	4345.9	4640.5	5005.2	5472.3
25°	4169.8	4151.8	4128.5	4144.7	4137.5	4212.9	4326.1	4473.4	4854.3	5201.0	5621.4
27.5°	4430.3	4446.5	4406.9	4408.7	4345.9	4318.9	4450.1	4672.8	5172.3	5477.7	5842.4
30°	4784.2	4771.6	4773.4	4768.1	4622.5	4495.0	4636.9	4933.3	5572.9	5899.9	6129.8
32.5°	5060.9	5078.9	5138.1	5172.3	4981.8	4777.0	4927.9	5287.3	6029.2	6381.4	6482.0
35°	5353.7	5386.1	5506.4	5617.8	5457.9	5222.6	5384.3	5756.2	6458.6	6857.4	6886.2
37.5°	5662.7	5727.4	5871.1	6067.0	6041.8	5833.4	5980.7	6307.7	6796.4	7144.9	7220.4
40°	6016.7	6079.5	6314.9	6596.9	6656.2	6609.5	6658.0	6848.5	7019.1	7157.5	7364.1
42.5°	6404.7	6490.9	6789.2	7166.5	7389.2	7430.5	7317.4	7297.6	7116.2	7013.7	7333.5
45°	6862.8	6963.4	7301.2	7789.9	8143.8	8199.5	8003.6	7750.3	7177.2	6907.8	7241.9
47.5°	7376.7	7471.9	7807.8	8395.3	8921.7	8943.2	8601.9	8194.1	7358.7	7029.9	7312.0
50°	7549.1	7608.4	7899.4	8589.3	9559.5	9724.7	9230.7	8693.5	7723.4	7389.2	7653.3
52.5°	6956.3	6979.6	7232.9	7930.0	9430.1	10491.9	10148.7	9439.1	8371.9	7937.2	8179.7
55°	5511.8	5474.1	5678.9	6318.5	8195.9	10335.6	10980.5	10610.4	9207.3	8580.3	8864.2
57.5°	3855.4	3810.5	3763.8	4196.8	6115.5	8761.8	10118.2	10773.9	10003.2	9218.1	9602.6
60°	3169.1	3126.0	2899.6	2700.2	3697.3	6291.5	7771.9	9006.1	9938.5	9185.8	9579.2
62.5°	2737.9	2712.8	2621.2	2349.9	2175.6	3591.3	4866.9	6049.0	7626.4	7213.2	7234.7
65°	2150.5	2143.3	2206.2	2234.9	1924.1	1987.0	2482.8	3144.0	4123.1	3887.7	3686.5
67.5°	1469.6	1453.4	1572.0	1933.1	1850.5	1568.4	1453.4	1466.0	1784.0	1090.5	865.9
70°	934.2	896.5	898.3	1198.3	1505.5	1237.8	1121.0	986.3	887.5	161.7	183.2
72.5°	598.3	574.9	494.1	540.8	697.1	603.6	609.0	524.6	350.3	86.2	100.6
75°	251.5	231.8	177.9	141.9	140.1	88.0	77.3	71.9	48.5	48.5	52.1
77.5°	1.8	0.0	0.0	1.8	3.6	1.8	1.8	3.6	7.2	10.8	12.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3	5163.3
2.5°	5192.0	5148.9	5197.4	5215.4	5213.6	5215.4	5163.3	5127.4	5125.6	5080.7	5059.1
5°	5211.8	5177.7	5213.6	5190.2	5134.6	5064.5	4971.1	4890.2	4854.3	4802.2	4777.0
7.5°	5249.5	5213.6	5208.2	5114.8	4976.5	4829.1	4663.9	4516.5	4437.5	4342.3	4347.7
10°	5276.5	5235.2	5165.1	4974.7	4744.7	4509.4	4263.2	4044.0	3905.7	3778.2	3756.6
12.5°	5287.3	5226.2	5062.7	4775.2	4451.9	4144.7	3783.5	3470.9	3255.4	3088.3	3064.9
15°	5307.0	5208.2	4931.5	4534.5	4090.8	3656.0	3196.1	2768.5	2482.8	2290.6	2306.8
17.5°	5337.6	5188.4	4784.2	4265.0	3702.7	3088.3	2466.7	1976.2	1713.9	1602.5	1604.3
20°	5380.7	5165.1	4622.5	3968.6	3237.4	2446.9	1724.7	1354.6	1280.9	1277.3	1272.0
22.5°	5438.2	5141.7	4450.1	3643.4	2685.8	1713.9	1148.0	1033.0	1063.6	1122.8	1133.6
25°	5506.4	5113.0	4257.8	3276.9	2084.0	1124.6	860.5	842.6	916.2	995.3	1013.3
27.5°	5612.4	5098.6	4038.7	2860.1	1462.4	806.7	704.2	715.0	781.5	848.0	864.1
30°	5792.1	5125.6	3799.7	2393.0	939.6	643.2	610.8	627.0	662.9	697.1	711.4
32.5°	6036.4	5204.6	3568.0	1882.8	670.1	558.7	551.5	560.5	574.9	594.7	600.0
35°	6322.1	5341.2	3329.0	1347.4	553.3	510.2	503.0	503.0	510.2	513.8	515.6
37.5°	6557.4	5484.9	3104.4	896.5	495.8	472.5	461.7	456.3	454.5	458.1	459.9
40°	6659.8	5544.2	2860.1	652.1	454.5	438.4	422.2	406.0	406.0	418.6	420.4
42.5°	6588.0	5477.7	2578.1	539.0	425.8	402.4	377.3	362.9	370.1	382.7	386.3
45°	6435.3	5314.2	2267.3	476.1	397.0	366.5	337.8	328.8	336.0	352.1	355.7
47.5°	6410.1	5206.4	1895.4	434.8	366.5	336.0	305.4	296.4	305.4	318.0	321.6
50°	6659.8	5299.8	1482.2	398.8	337.8	303.6	278.5	269.5	274.9	282.1	285.7
52.5°	7116.2	5646.6	1196.5	364.7	303.6	271.3	255.1	244.3	244.3	251.5	253.3
55°	7789.9	6252.0	1033.0	325.2	264.1	246.1	231.8	221.0	221.0	224.6	226.4
57.5°	8566.0	6985.0	1070.7	273.1	231.8	222.8	210.2	201.2	204.8	204.8	204.8
60°	8458.2	6931.1	1146.2	230.0	204.8	201.2	190.4	186.8	195.8	188.6	185.0
62.5°	6230.4	4787.8	600.0	188.6	176.1	172.5	165.3	172.5	185.0	165.3	158.1
65°	3025.4	2317.6	240.7	154.5	149.1	145.5	141.9	152.7	159.9	129.4	122.2
67.5°	711.4	578.5	156.3	131.1	124.0	116.8	120.4	122.2	116.8	88.0	84.4
70°	185.0	181.5	122.2	109.6	98.8	91.6	91.6	89.8	77.3	55.7	52.1
72.5°	100.6	98.8	88.0	82.6	68.3	61.1	62.9	55.7	43.1	32.3	30.5
75°	50.3	53.9	50.3	46.7	37.7	34.1	34.1	30.5	21.6	12.6	12.6
77.5°	10.8	12.6	12.6	10.8	9.0	7.2	7.2	9.0	3.6	0.0	0.0
80°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)