

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: P640707

Luminaire Tested: GWS-SA5E-735-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640707  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-735-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

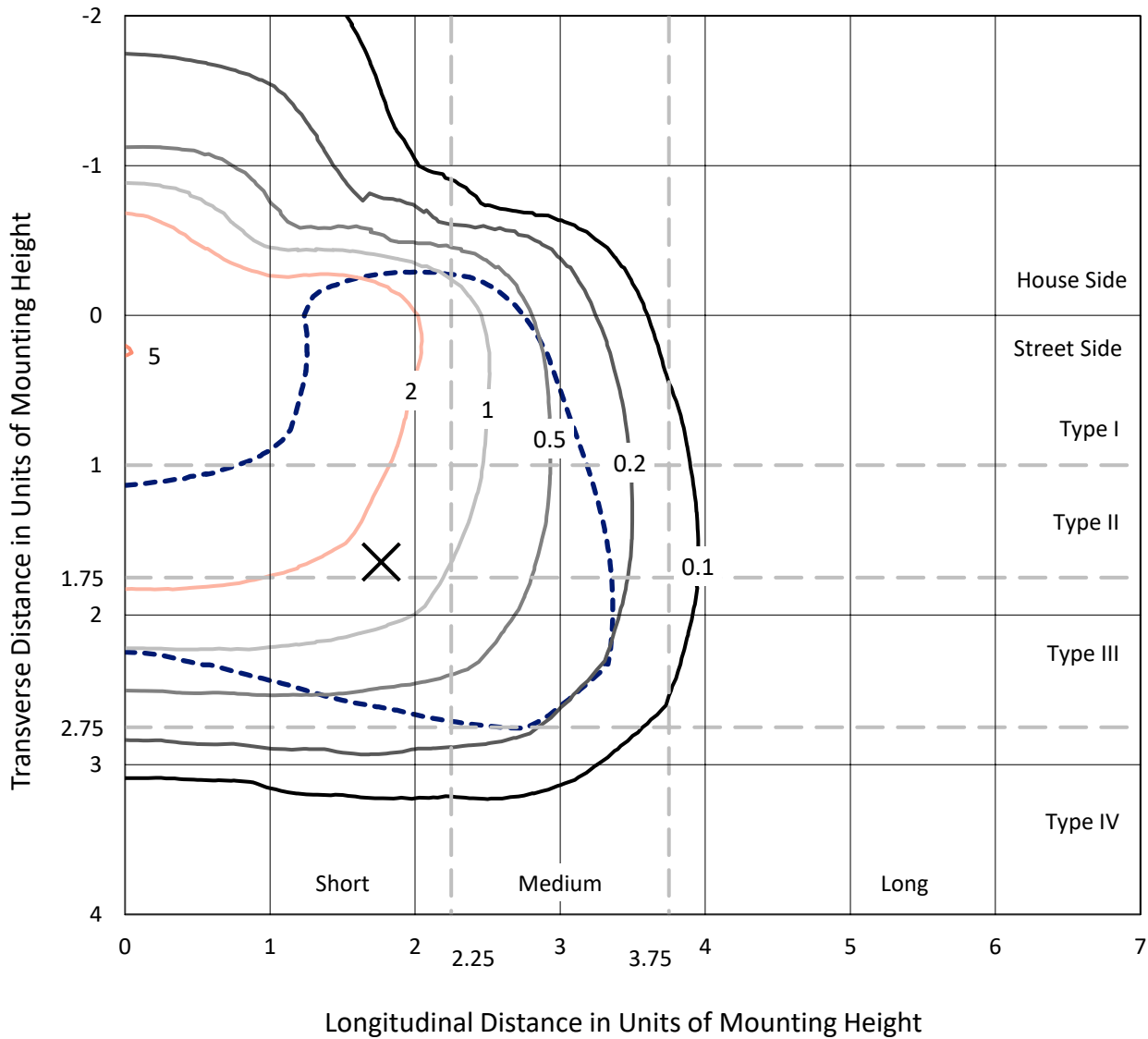
Lumens per Lamp: N/A  
Luminaire Lumens: 36708.9 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

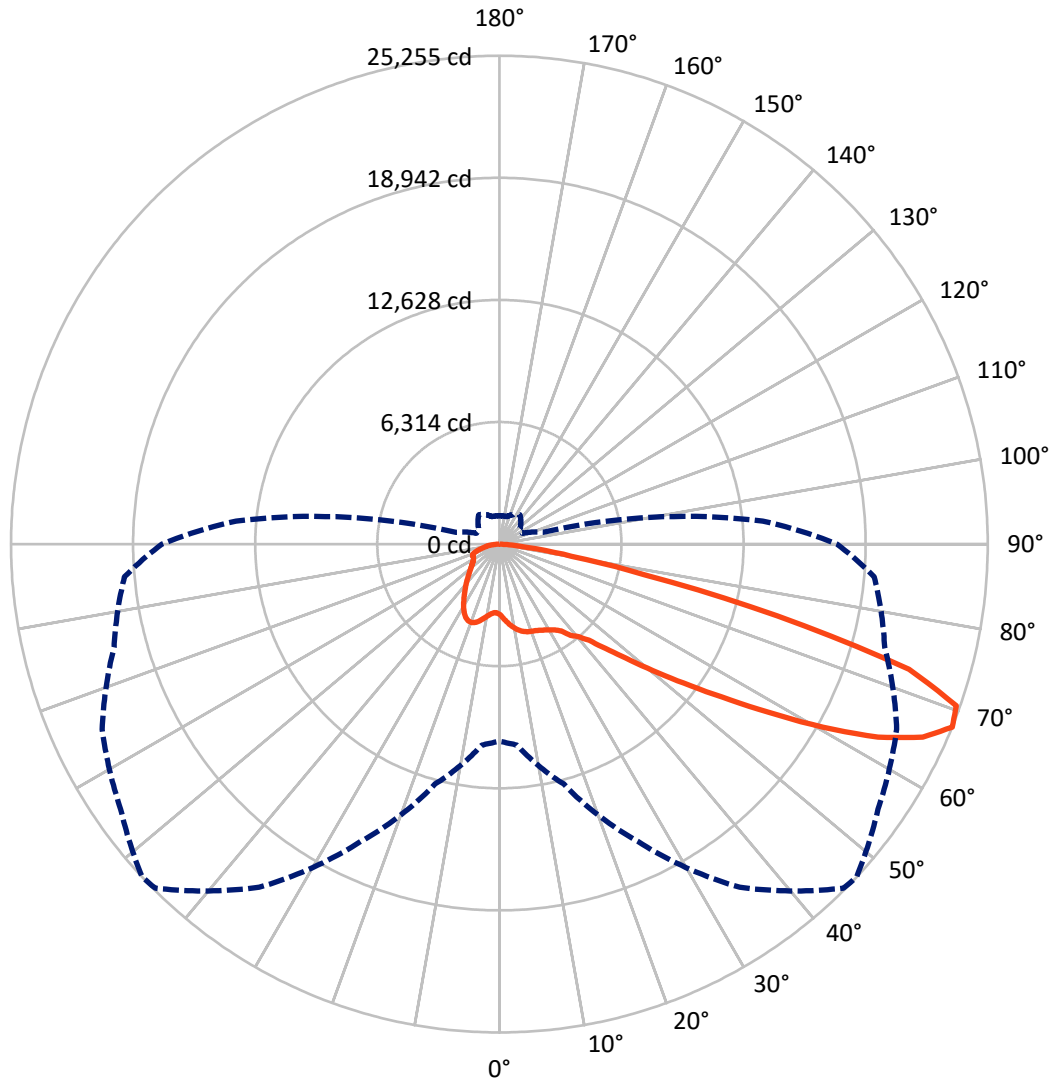
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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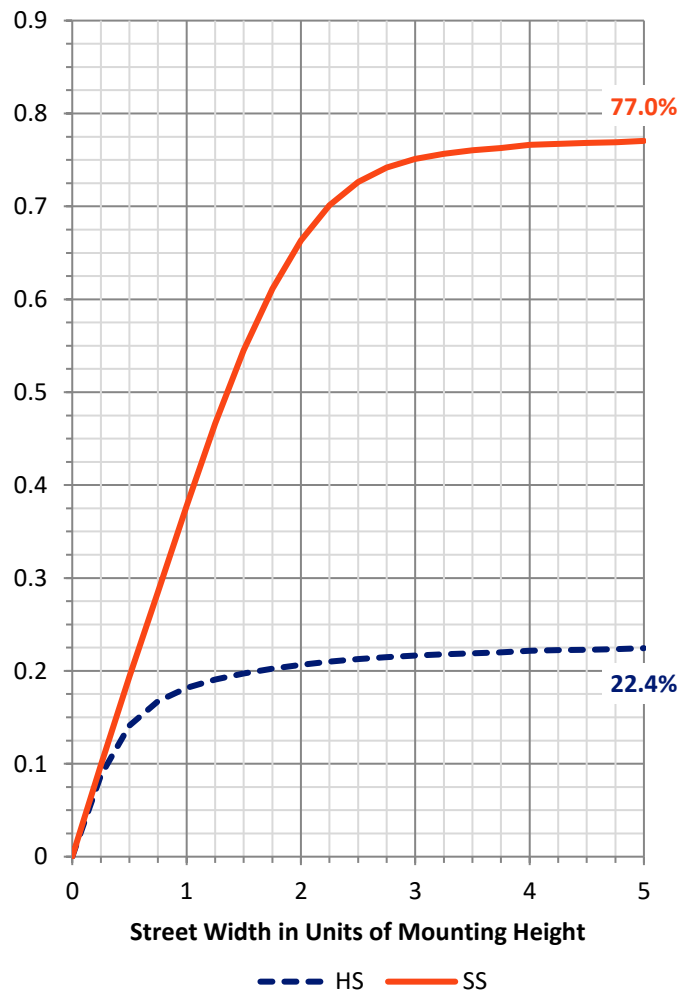
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8366.2	0.0	8366.2
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	28342.7	0.0	28342.7
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	36708.9	0.0	36708.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.9	1.0
10°-20°	1239.1	3.4
20°-30°	2106.1	5.7
30°-40°	3085.2	8.4
40°-50°	4700.7	12.8
50°-60°	8410.5	22.9
60°-70°	11222.9	30.6
70°-80°	5075.3	13.8
80°-90°	497.2	1.4
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°	36708.9	100.0
0°-180°	36708.9	100.0

**Coefficient of Utilization**



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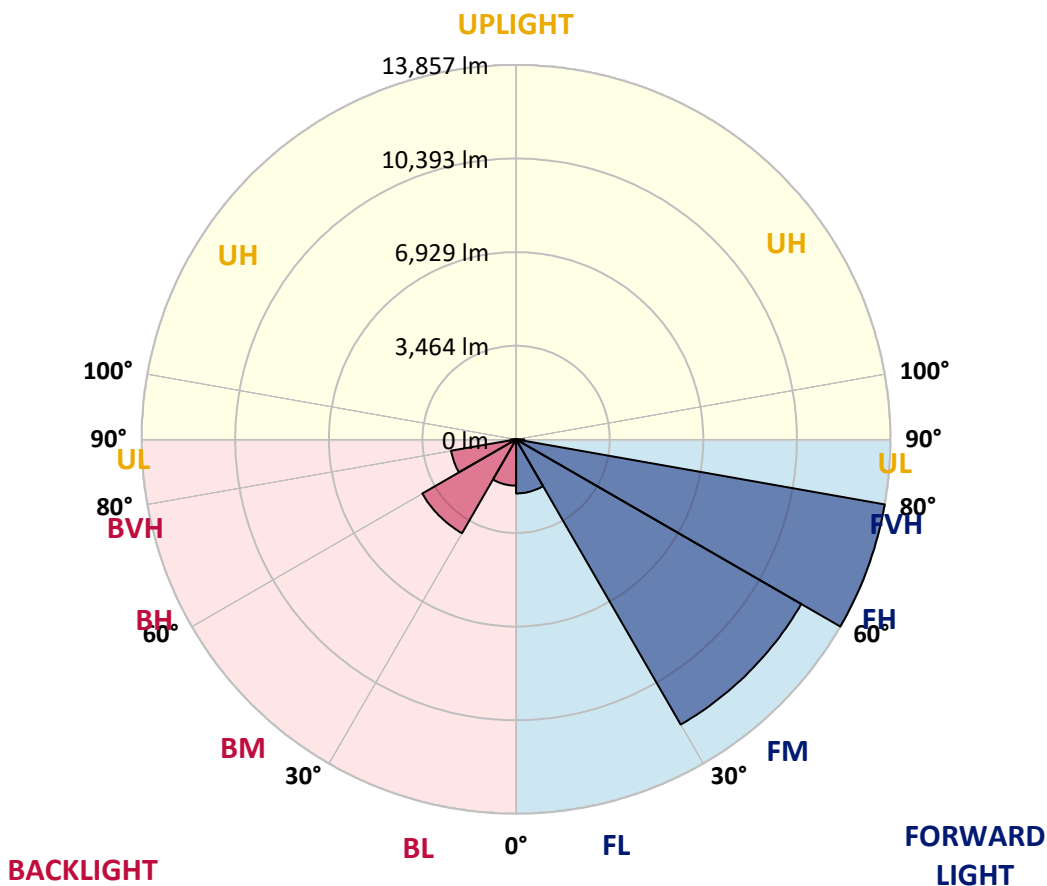
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2002.0	5.5			
FM (30°-60°)	12187.7	33.2			
FH (60°-80°)	13857.2	37.7			G5
FVH (80°-90°)	295.8	0.8			G3/500
BL (0°-30°)	1715.1	4.7	B3/2500		
BM (30°-60°)	4008.7	10.9	B3/5000		
BH (60°-80°)	2441.0	6.6	B3/2500		G3/2500
BVH (80°-90°)	201.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3639.0	3639.0	3639.0	3639.0	3639.0	3639.0	3639.0	3639.0	3639.0	3639.0	3639.0
2.5°	3880.6	3893.8	3891.2	3869.9	3856.7	3832.8	3835.4	3798.3	3742.5	3705.4	3662.9
5°	4223.0	4244.2	4217.6	4183.1	4130.1	4053.1	4045.1	3960.2	3854.0	3779.7	3702.7
7.5°	4520.2	4533.5	4501.7	4443.3	4366.3	4262.8	4244.2	4143.3	4010.6	3893.8	3782.3
10°	4751.2	4767.1	4724.6	4647.6	4546.8	4443.3	4430.0	4326.5	4185.8	4047.8	3907.1
12.5°	4947.6	4952.9	4907.8	4804.2	4695.4	4589.2	4576.0	4480.4	4350.4	4209.7	4055.7
15°	5061.7	5064.4	5008.6	4894.5	4791.0	4698.1	4690.1	4607.8	4488.4	4355.7	4191.1
17.5°	5053.7	5059.1	5019.2	4918.4	4828.1	4772.4	4764.4	4711.3	4618.4	4499.0	4334.4
20°	4955.5	4960.8	4934.3	4867.9	4820.2	4804.2	4806.9	4791.0	4735.2	4637.0	4469.8
22.5°	4878.6	4886.5	4862.6	4814.9	4809.5	4846.7	4854.7	4862.6	4836.1	4748.5	4586.6
25°	4915.7	4929.0	4891.8	4825.5	4836.1	4918.4	4934.3	4960.8	4939.6	4865.3	4724.6
27.5°	5173.2	5181.1	5085.6	4950.2	4918.4	5006.0	5029.9	5072.3	5056.4	4987.4	4878.6
30°	5770.4	5765.1	5560.7	5228.9	5096.2	5130.7	5149.3	5210.3	5215.7	5170.5	5067.0
32.5°	6611.8	6585.3	6269.4	5741.2	5356.3	5271.4	5292.6	5374.9	5436.0	5388.2	5247.5
35°	7501.0	7477.1	7129.4	6510.9	5836.8	5542.1	5518.2	5581.9	5674.8	5542.1	5340.4
37.5°	8347.7	8310.5	7954.9	7190.4	6428.7	6017.2	5982.7	5919.0	5863.3	5608.5	5454.5
40°	9287.3	9244.8	8934.3	8069.0	7081.6	6380.9	6293.3	6041.1	5990.7	5828.8	5751.8
42.5°	10290.6	10290.6	10033.2	9181.1	7869.9	6901.1	6787.0	6407.4	6460.5	6354.3	6264.1
45°	11293.9	11323.1	11118.8	10301.2	8923.7	7883.2	7700.1	7161.2	7288.6	7240.9	7195.7
47.5°	12148.6	12204.4	12164.6	11445.2	10213.7	9077.6	8798.9	8238.9	8512.3	8626.4	8753.8
50°	13069.7	13130.7	13090.9	12806.9	11723.9	10524.2	10274.7	9696.1	10165.9	10508.3	10925.0
52.5°	14436.6	14524.2	14192.4	14083.6	13558.0	12167.2	11944.2	11286.0	12138.0	12706.0	13635.0
55°	15591.2	15588.6	15471.8	15721.3	15527.5	14176.5	13929.6	13332.4	14420.7	15023.2	16382.2
57.5°	16127.4	16191.1	16591.9	17297.9	17685.4	16631.7	16395.5	15785.0	16870.6	17183.8	18651.6
60°	16403.4	16483.1	17258.1	18654.3	19697.4	19312.5	19219.6	18441.9	19052.4	19015.2	20565.3
62.5°	16015.9	16175.2	17420.0	19275.4	21133.4	22006.6	21977.4	20801.6	20907.7	20544.1	21751.8
65°	14237.5	14410.1	16363.6	18964.8	21953.5	24055.7	24063.7	22938.3	22333.1	21287.3	21552.7
67.5°	10181.8	10428.7	12844.0	16968.8	21664.2	25162.5	25255.4	23907.1	22667.5	20629.0	19461.2
70°	5550.1	5730.6	7623.1	12334.4	19057.7	24897.1	25069.6	23439.9	21191.7	17844.7	14980.7
72.5°	2521.6	2580.0	3546.1	6768.4	13019.2	21430.6	22152.6	20918.4	17404.1	13181.1	9526.2
75°	1154.6	1181.2	1544.8	3238.2	6802.9	14341.1	14848.0	15580.6	12111.5	8323.8	4966.2
77.5°	724.6	732.6	878.6	1481.1	3392.2	7158.6	7692.1	9276.7	7092.2	4119.4	2075.6
80°	427.3	435.3	546.8	801.6	1592.6	3275.4	3782.3	3668.2	3333.8	1778.4	944.9
82.5°	215.0	223.0	315.9	456.5	867.9	1303.2	1534.2	1542.1	1242.2	963.5	533.5
85°	77.0	79.6	103.5	180.5	368.9	430.0	480.4	586.6	607.8	560.1	257.5
87.5°	0.0	0.0	2.7	5.3	10.6	42.5	45.1	84.9	177.8	199.1	103.5
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°	3639.0	3639.0	3639.0	3639.0	3639.0	3639.0	3639.0	3639.0	3639.0	3639.0	3639.0
2.5°	3649.6	3609.8	3596.5	3583.3	3562.0	3554.1	3538.2	3522.2	3522.2	3506.3	3498.3
5°	3668.2	3615.1	3580.6	3564.7	3551.4	3559.4	3559.4	3564.7	3583.3	3572.7	3578.0
7.5°	3734.6	3673.5	3625.7	3612.5	3612.5	3644.3	3665.6	3692.1	3726.6	3731.9	3731.9
10°	3851.4	3779.7	3729.3	3721.3	3734.6	3779.7	3811.5	3843.4	3885.9	3888.5	3893.8
12.5°	3978.8	3907.1	3856.7	3867.3	3880.6	3938.9	3973.5	4000.0	4042.5	4042.5	4039.8
15°	4111.5	4031.8	3989.4	4010.6	4050.4	4116.8	4122.1	4124.7	4146.0	4140.7	4138.0
17.5°	4249.5	4164.6	4132.7	4164.6	4207.0	4238.9	4212.3	4175.2	4167.2	4156.6	4151.3
20°	4384.9	4297.3	4284.0	4307.9	4321.2	4294.6	4212.3	4143.3	4111.5	4095.5	4090.2
22.5°	4501.7	4427.3	4419.4	4419.4	4353.0	4260.1	4138.0	4045.1	4002.6	3981.4	3976.1
25°	4639.7	4570.7	4557.4	4485.7	4315.9	4146.0	3981.4	3896.5	3862.0	3851.4	3854.0
27.5°	4801.6	4753.8	4711.3	4507.0	4209.7	3944.3	3758.5	3721.3	3708.0	3721.3	3729.3
30°	5000.7	4952.9	4857.3	4480.4	4039.8	3681.5	3503.6	3501.0	3540.8	3575.3	3580.6
32.5°	5162.6	5141.3	4984.7	4395.5	3800.9	3392.2	3240.9	3251.5	3323.2	3370.9	3378.9
35°	5290.0	5324.5	5090.9	4254.8	3516.9	3118.8	2999.3	3004.6	3044.5	3110.8	3113.5
37.5°	5470.5	5587.3	5186.5	4039.8	3190.4	2882.5	2773.7	2733.9	2728.6	2747.2	2752.5
40°	5834.1	6009.3	5255.5	3726.6	2874.6	2670.2	2548.1	2471.1	2404.8	2354.3	2338.4
42.5°	6383.5	6585.3	5295.3	3347.0	2593.2	2460.5	2322.5	2224.3	2107.5	2001.3	1964.2
45°	7392.2	7458.5	5295.3	2943.6	2343.7	2264.1	2126.1	2009.3	1860.6	1735.9	1709.4
47.5°	9006.0	8793.6	5300.6	2553.4	2123.4	2091.6	1972.1	1839.4	1674.8	1571.3	1555.4
50°	11437.3	10691.4	5409.4	2229.6	1940.3	1945.6	1858.0	1712.0	1563.4	1486.4	1473.1
52.5°	14192.4	13029.8	5701.4	1990.7	1786.3	1826.1	1778.4	1637.7	1505.0	1438.6	1425.3
55°	16783.0	15179.8	5950.9	1820.8	1656.3	1725.3	1722.6	1592.6	1473.1	1406.8	1398.8
57.5°	18986.0	16652.9	5913.7	1682.8	1544.8	1632.4	1672.2	1563.4	1451.9	1396.1	1388.2
60°	20355.6	17433.3	5385.5	1555.4	1459.9	1566.0	1643.0	1555.4	1462.5	1449.2	1451.9
62.5°	20950.2	17290.0	4371.6	1459.9	1404.1	1534.2	1674.8	1611.1	1560.7	1592.6	1611.1
65°	20026.5	16058.4	3217.0	1388.2	1351.0	1542.1	1749.2	1698.7	1560.7	1581.9	1589.9
67.5°	17462.5	13669.5	2325.1	1316.5	1284.7	1566.0	1855.3	1685.5	1470.5	1470.5	1454.5
70°	12583.9	9831.4	1688.1	1244.9	1218.3	1531.5	1860.6	1595.2	1367.0	1359.0	1319.2
72.5°	7572.7	5799.6	1316.5	1165.2	1117.5	1359.0	1743.9	1489.0	1266.1	1199.7	1152.0
75°	3933.6	2906.4	1104.2	1077.6	958.2	1152.0	1595.2	1324.5	1082.9	1024.6	998.0
77.5°	1685.5	1359.0	947.6	960.8	796.3	968.8	1287.3	1146.6	960.8	886.5	862.6
80°	830.8	772.4	748.5	769.7	637.0	748.5	1109.5	1003.3	814.9	729.9	695.4
82.5°	475.1	451.2	538.8	546.8	453.9	626.4	937.0	849.4	674.2	581.3	525.5
85°	220.3	236.2	326.5	329.1	281.4	430.0	613.1	477.8	358.3	297.3	284.0
87.5°	87.6	103.5	143.3	140.7	82.3	79.6	53.1	29.2	23.9	21.2	18.6
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)