

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: P640194

Luminaire Tested: GWS-SA5D-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-735-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

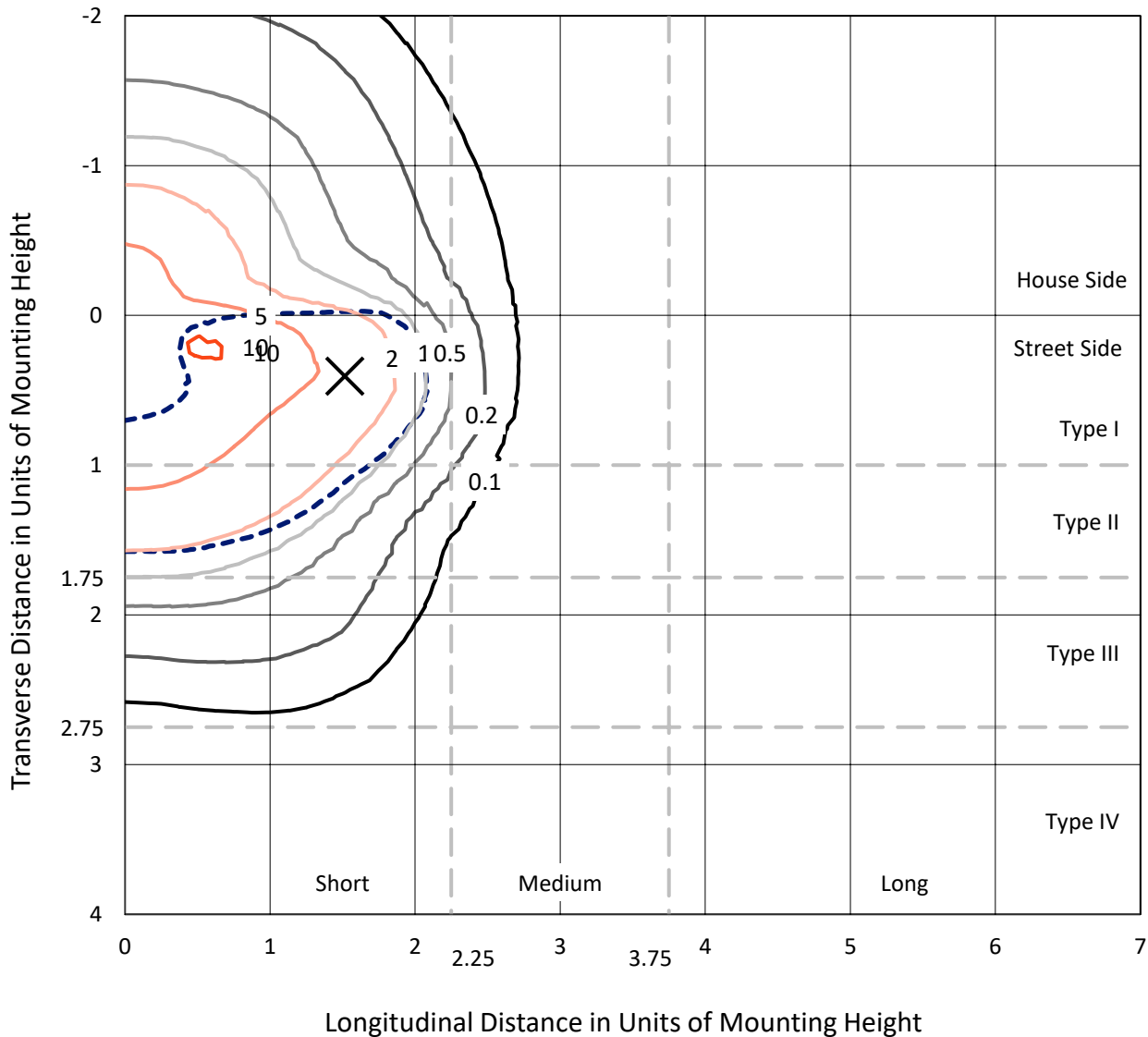
Lumens per Lamp: N/A  
Luminaire Lumens: 24702.5 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

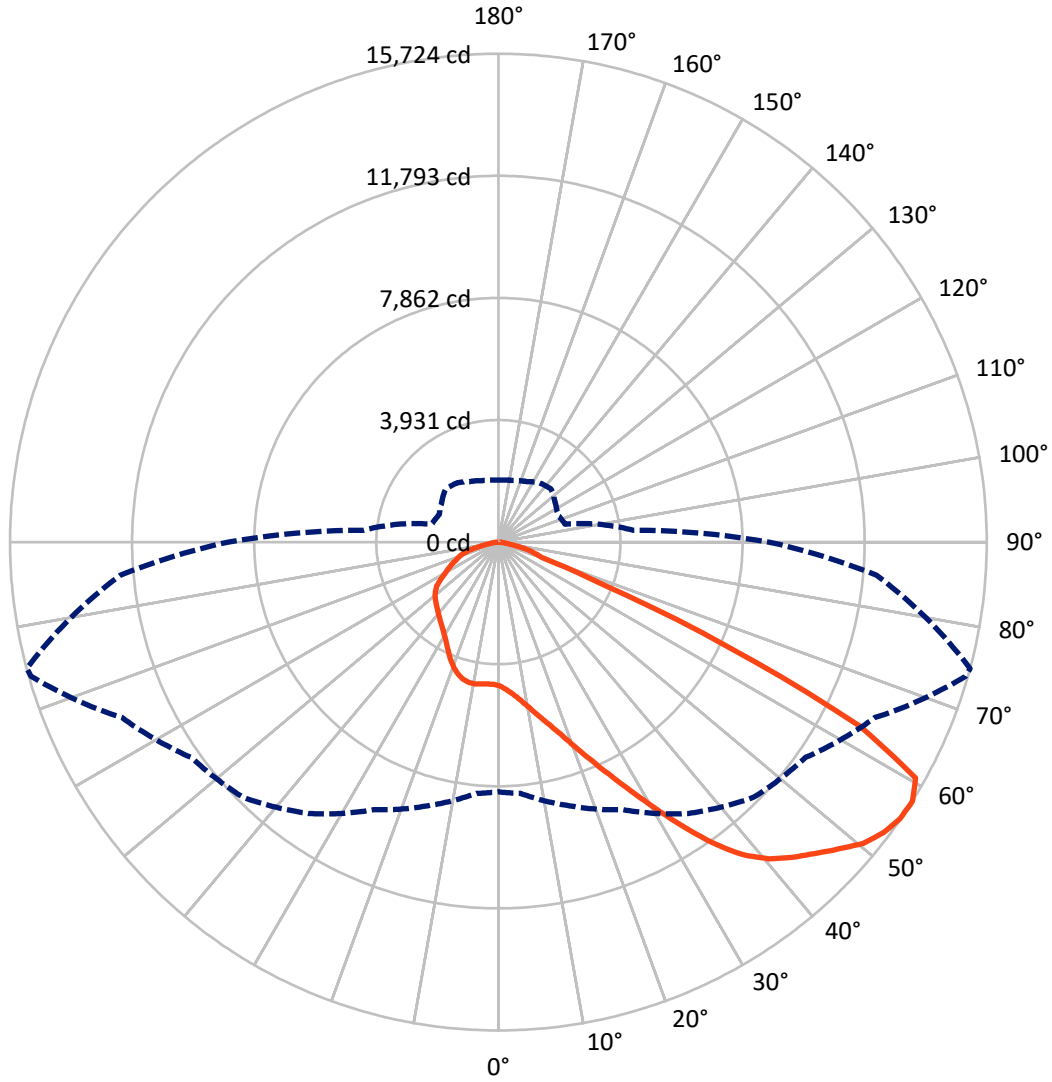
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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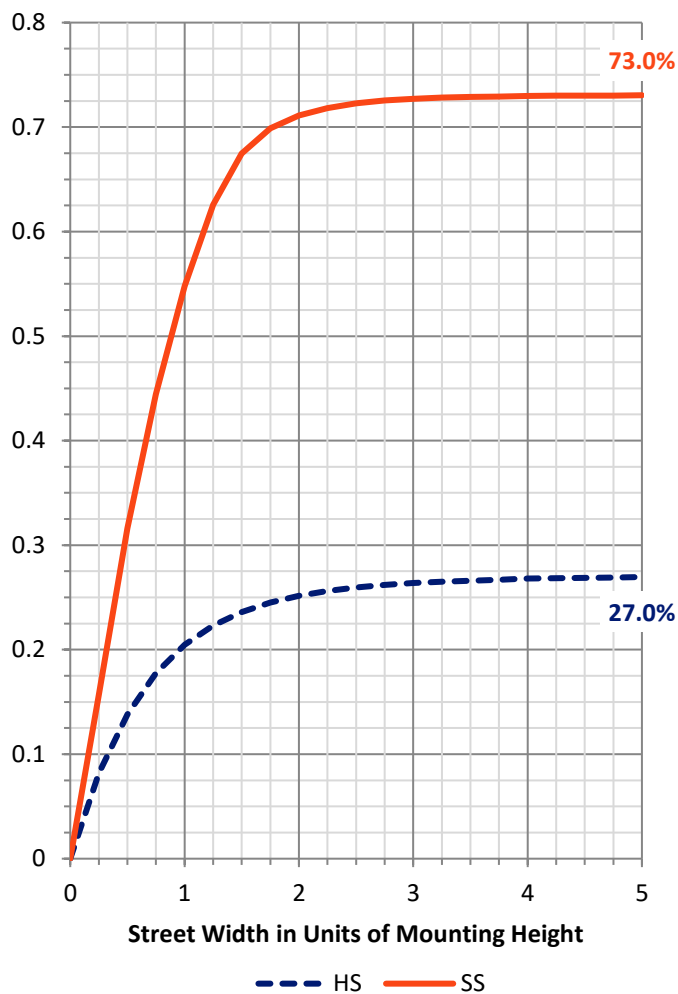
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6682.5	0.0	6682.5
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	18020.0	0.0	18020.0
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	24702.5	0.0	24702.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.9	1.9
10°-20°	1473.9	6.0
20°-30°	2613.9	10.6
30°-40°	4001.5	16.2
40°-50°	5571.7	22.6
50°-60°	6384.1	25.8
60°-70°	3280.3	13.3
70°-80°	825.8	3.3
80°-90°	88.3	0.4
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°	24702.5	100.0
0°-180°	24702.5	100.0

**Coefficient of Utilization**



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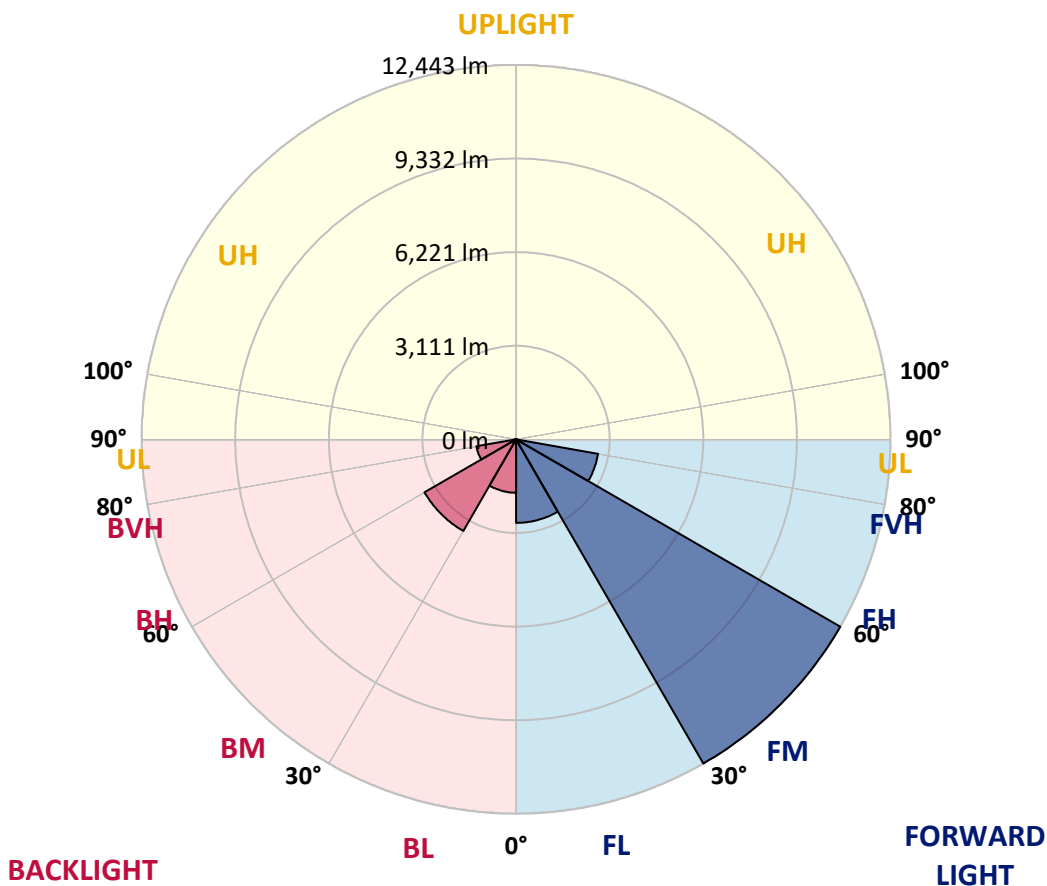
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2775.5	11.2			
FM (30°-60°)	12442.9	50.4			
FH (60°-80°)	2768.9	11.2			G2/5000
FVH (80°-90°)	32.7	0.1			G1/100
BL (0°-30°)	1775.3	7.2	B3/2500		
BM (30°-60°)	3514.4	14.2	B3/5000		
BH (60°-80°)	1337.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	55.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2
2.5°	4970.3	4983.0	4970.3	4991.5	4949.0	4929.9	4883.2	4813.1	4757.9	4749.4	4687.8
5°	5356.9	5384.5	5367.5	5359.0	5301.6	5259.2	5189.1	5048.9	4934.2	4917.2	4796.1
7.5°	5605.4	5624.5	5624.5	5630.9	5609.6	5560.8	5486.4	5320.8	5159.3	5133.8	4951.2
10°	5688.2	5703.1	5730.7	5783.8	5826.3	5841.1	5792.3	5633.0	5435.4	5410.0	5155.1
12.5°	5707.3	5724.3	5766.8	5864.5	5981.3	6087.5	6096.0	5979.2	5758.3	5730.7	5390.8
15°	5743.4	5760.4	5817.8	5938.8	6110.9	6314.8	6440.1	6359.4	6115.1	6085.4	5658.5
17.5°	5739.2	5758.3	5843.3	6004.7	6236.2	6531.5	6773.6	6807.6	6554.8	6503.8	5962.2
20°	5728.6	5745.6	5836.9	6034.4	6321.2	6726.9	7164.4	7340.7	7068.8	7022.1	6316.9
22.5°	5813.5	5832.6	5902.7	6066.3	6365.8	6877.7	7525.5	7950.3	7678.4	7612.6	6724.7
25°	6004.7	6032.3	6074.8	6187.4	6446.5	7011.5	7895.1	8640.6	8362.4	8283.8	7168.7
27.5°	6299.9	6333.9	6393.4	6446.5	6627.0	7181.4	8262.6	9413.8	9135.5	9052.7	7638.1
30°	6661.0	6705.6	6782.1	6818.2	6941.4	7432.1	8661.9	10210.3	10048.9	9934.2	8167.0
32.5°	7160.2	7221.8	7294.0	7304.6	7379.0	7812.3	9057.0	11000.5	10998.3	10917.6	8768.1
35°	7810.1	7876.0	7890.9	7905.7	7941.8	8334.8	9534.9	11720.5	11998.8	11905.3	9422.3
37.5°	8519.6	8615.2	8638.5	8572.7	8623.7	8963.5	10072.3	12298.3	12869.6	12769.8	10055.3
40°	9277.9	9316.1	9379.8	9275.7	9339.5	9683.6	10599.0	12667.8	13519.6	13413.4	10554.4
42.5°	9821.6	9891.7	9987.3	9949.1	9985.2	10299.5	10968.6	12846.3	13982.6	13876.4	10913.4
45°	10412.1	10433.3	10494.9	10486.4	10507.7	10800.8	11234.1	12924.9	14396.8	14301.2	11219.2
47.5°	10926.1	10958.0	10998.3	10951.6	10904.9	11096.0	11450.8	12992.8	14874.7	14760.0	11540.0
50°	11421.0	11448.6	11497.5	11361.6	11187.4	11236.2	11557.0	13086.3	15322.9	15242.2	11792.7
52.5°	11512.4	11542.1	11771.5	11799.1	11576.1	11404.0	11743.9	13292.3	15586.3	15535.3	11884.1
55°	10363.2	10416.4	10873.0	11397.7	11947.8	11892.6	12043.4	13400.6	15690.4	15703.1	12047.6
57.5°	8043.8	8120.3	8787.2	9507.3	10664.9	11622.8	12081.6	13373.0	15654.3	15724.4	12215.4
60°	5276.1	5320.8	6110.9	6918.0	8118.1	9443.5	10813.5	12876.0	15333.5	15433.4	12172.9
62.5°	3186.1	3237.1	3872.1	4483.9	5191.2	6076.9	7334.4	10348.4	12852.6	13075.7	9749.4
65°	2223.9	2291.9	2848.4	3351.8	3596.0	3413.4	3715.0	5779.5	8007.7	8101.1	5958.0
67.5°	1612.2	1658.9	2115.6	2714.5	2984.3	2410.8	1837.3	2559.5	3487.7	3521.7	2457.5
70°	1055.7	1108.8	1522.9	2066.7	2436.3	1954.1	1374.3	1384.9	1467.7	1484.7	1427.4
72.5°	579.9	611.7	941.0	1372.1	1440.1	1168.2	1072.6	1151.2	1208.6	1208.6	1223.5
75°	299.5	327.1	384.5	452.4	545.9	639.3	773.2	890.0	951.6	955.8	949.5
77.5°	152.9	163.6	206.0	223.0	244.3	284.6	369.6	473.7	528.9	550.1	545.9
80°	72.2	76.5	87.1	102.0	125.3	159.3	199.7	237.9	271.9	276.1	299.5
82.5°	38.2	42.5	46.7	55.2	68.0	85.0	116.8	140.2	161.4	165.7	184.8
85°	14.9	17.0	19.1	21.2	29.7	36.1	48.9	65.8	80.7	80.7	95.6
87.5°	0.0	0.0	0.0	0.0	2.1	4.2	8.5	10.6	14.9	14.9	25.5
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°	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2	4626.2
2.5°	4672.9	4611.3	4583.7	4539.1	4503.0	4462.6	4430.8	4407.4	4392.5	4384.0	4375.5
5°	4749.4	4655.9	4581.6	4492.4	4430.8	4371.3	4322.4	4288.5	4271.5	4258.7	4250.2
7.5°	4868.3	4743.0	4602.8	4464.8	4356.4	4260.8	4199.3	4163.1	4139.8	4131.3	4124.9
10°	5031.9	4857.7	4626.2	4407.4	4246.0	4141.9	4099.4	4082.4	4084.6	4080.3	4078.2
12.5°	5216.7	4978.8	4619.8	4305.5	4127.0	4065.4	4067.6	4095.2	4127.0	4135.5	4137.7
15°	5416.3	5097.7	4558.2	4173.8	4033.6	4039.9	4095.2	4161.0	4220.5	4243.9	4248.1
17.5°	5633.0	5197.6	4445.6	4029.3	3957.1	4025.1	4127.0	4235.4	4322.4	4360.7	4371.3
20°	5875.1	5282.5	4286.3	3887.0	3884.9	3997.5	4146.1	4288.5	4398.9	4449.9	4458.4
22.5°	6132.1	5335.6	4090.9	3755.3	3810.5	3961.4	4131.3	4280.0	4396.8	4447.8	4458.4
25°	6391.3	5352.6	3876.4	3634.3	3734.1	3904.0	4059.1	4178.0	4288.5	4333.1	4341.6
27.5°	6633.4	5303.8	3672.5	3530.2	3664.0	3819.0	3923.1	3986.8	4063.3	4097.3	4103.7
30°	6879.8	5206.1	3500.4	3447.3	3585.4	3702.2	3749.0	3753.2	3782.9	3782.9	3787.2
32.5°	7128.3	5061.6	3349.6	3366.6	3487.7	3564.2	3570.5	3521.7	3485.6	3426.1	3424.0
35°	7415.1	4915.1	3226.4	3275.3	3373.0	3419.7	3400.6	3307.1	3220.1	3122.4	3118.1
37.5°	7680.6	4764.2	3122.4	3181.8	3243.4	3277.4	3232.8	3120.2	3048.0	2948.2	2933.3
40°	7899.3	4628.3	3022.5	3084.1	3113.9	3143.6	3071.4	2980.0	2990.7	2935.4	2933.3
42.5°	8026.8	4496.6	2929.1	2975.8	2994.9	3016.2	2952.4	2884.5	2941.8	2899.3	2901.5
45°	8120.3	4381.9	2844.1	2861.1	2907.8	2939.7	2880.2	2803.7	2816.5	2652.9	2614.7
47.5°	8226.5	4318.2	2763.4	2746.4	2829.2	2884.5	2793.1	2682.7	2606.2	2444.8	2429.9
50°	8339.0	4294.8	2678.4	2631.7	2731.5	2784.6	2678.4	2540.4	2440.5	2353.4	2345.0
52.5°	8377.3	4292.7	2572.2	2493.6	2593.5	2667.8	2578.6	2438.4	2319.5	2234.5	2230.3
55°	8528.1	4354.3	2436.3	2304.6	2398.1	2551.0	2485.1	2283.4	2187.8	2149.5	2145.3
57.5°	8704.4	4364.9	2221.8	2098.6	2228.1	2408.7	2325.8	2151.7	2047.6	2000.9	1996.6
60°	8632.1	4103.7	1992.4	1941.4	2083.7	2274.9	2198.4	2047.6	1926.5	1881.9	1877.7
62.5°	6578.2	2897.2	1824.6	1805.4	1928.6	2081.6	2066.7	1909.5	1794.8	1763.0	1758.7
65°	3957.1	2034.8	1663.1	1661.0	1748.1	1894.7	1913.8	1786.3	1665.3	1620.7	1620.7
67.5°	1956.3	1556.9	1480.5	1469.8	1525.1	1629.1	1709.9	1605.8	1503.8	1461.3	1455.0
70°	1382.8	1372.1	1346.6	1316.9	1327.5	1370.0	1404.0	1316.9	1208.6	1166.1	1157.6
72.5°	1195.8	1198.0	1181.0	1157.6	1149.1	1119.4	1089.6	1025.9	960.1	915.5	919.7
75°	928.2	932.5	943.1	934.6	911.2	879.4	847.5	766.8	713.7	671.2	662.7
77.5°	541.6	562.9	596.9	588.4	592.6	548.0	535.3	456.7	407.8	378.1	371.7
80°	305.9	318.6	333.5	344.1	331.4	312.2	284.6	242.1	227.3	206.0	201.8
82.5°	184.8	197.5	203.9	212.4	208.2	182.7	161.4	133.8	121.1	110.5	108.3
85°	93.5	102.0	108.3	112.6	99.8	82.8	74.3	59.5	51.0	44.6	44.6
87.5°	23.4	25.5	29.7	25.5	23.4	10.6	8.5	2.1	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)