

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: P638365

Luminaire Tested: GWS-SA4E-760-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-760-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25006.2 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

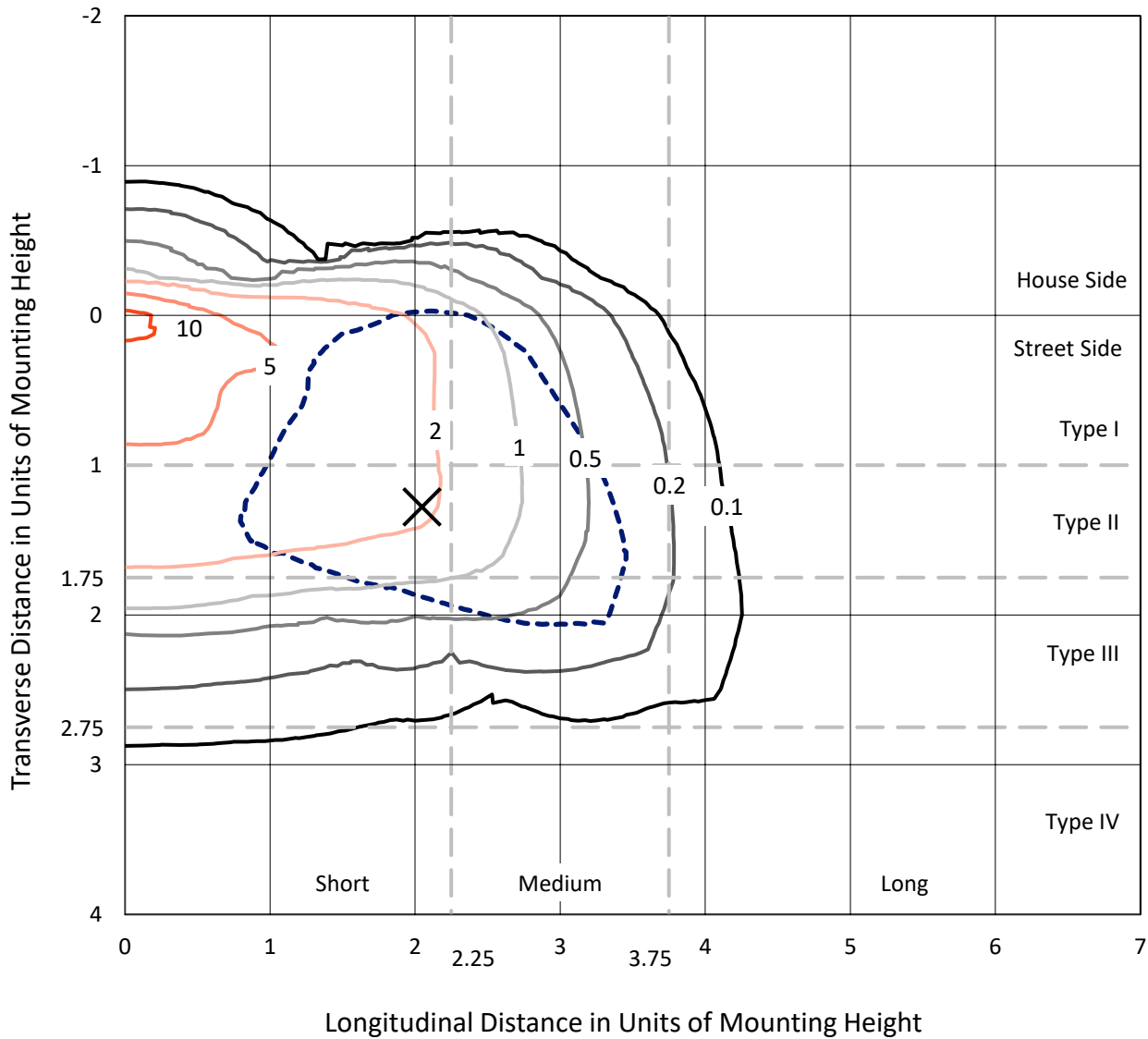
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

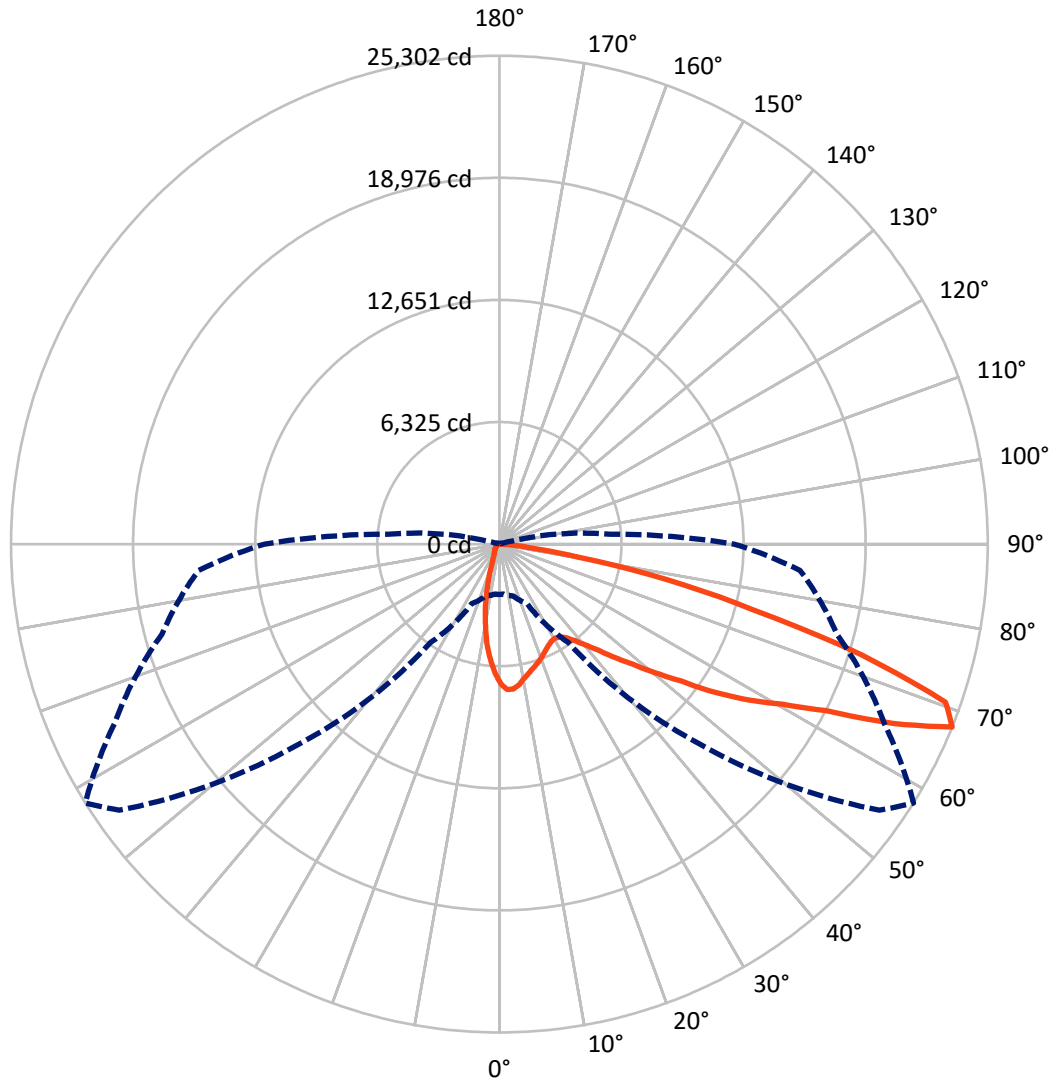
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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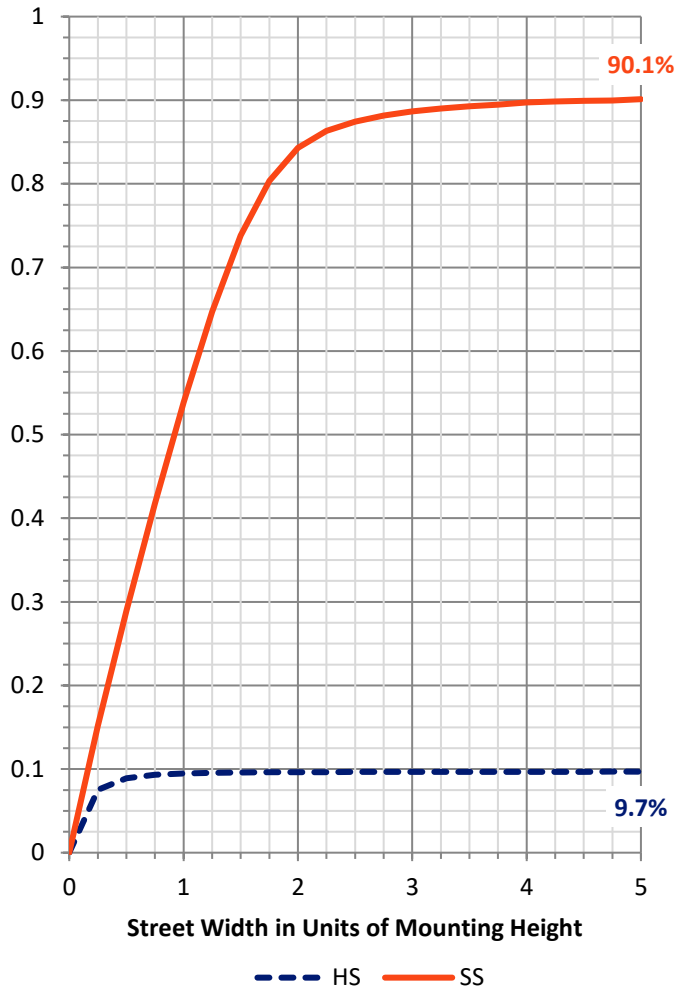
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2442.9	0.0	2442.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	22563.3	0.0	22563.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	25006.2	0.0	25006.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.1	2.3
10°-20°	1220.1	4.9
20°-30°	1645.4	6.6
30°-40°	2312.1	9.2
40°-50°	3570.8	14.3
50°-60°	5710.2	22.8
60°-70°	6761.3	27.0
70°-80°	2991.0	12.0
80°-90°	209.1	0.8
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°	25006.2	100.0
0°-180°	25006.2	100.0

Coefficient of Utilization



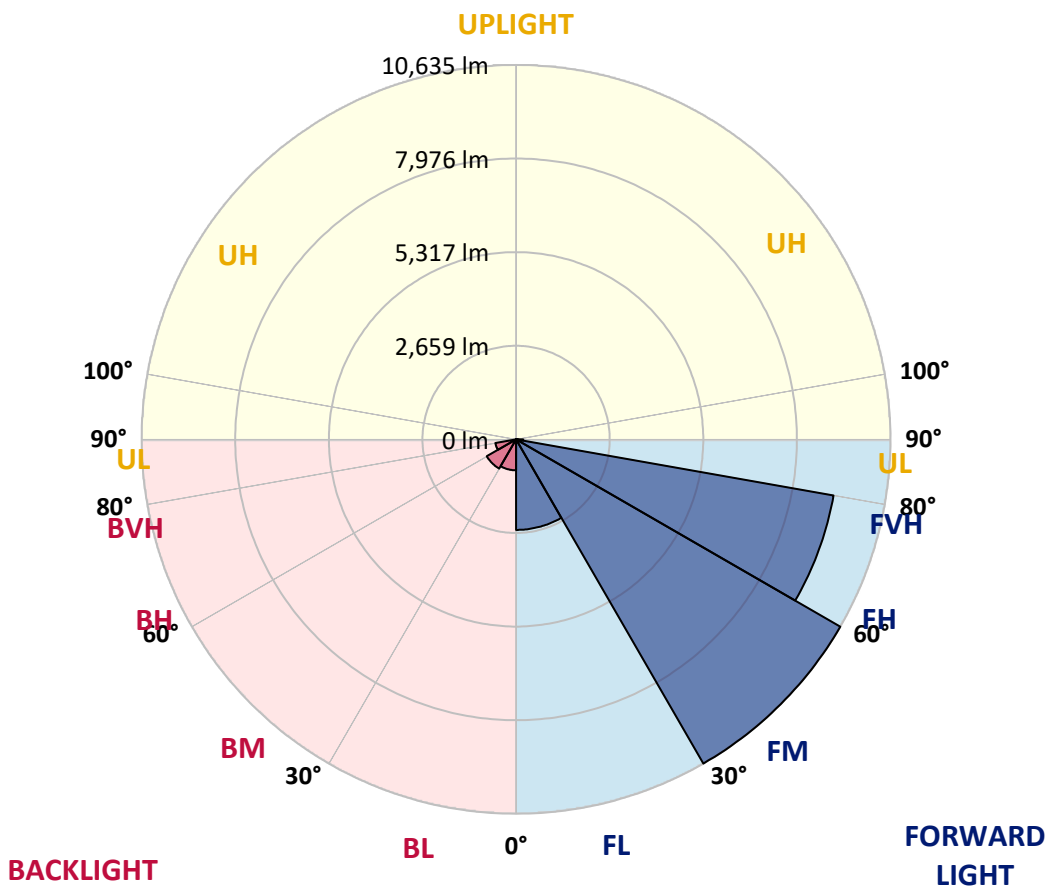
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2572.5	10.3			
FM (30°-60°)	10634.6	42.5			
FH (60°-80°)	9155.9	36.6			G4/12000
FVH (80°-90°)	200.2	0.8			G2/225
BL (0°-30°)	879.1	3.5	B2/1000		
BM (30°-60°)	958.5	3.8	B1/1000		
BH (60°-80°)	596.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	8.9	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7213.0	7213.0	7213.0	7213.0	7213.0	7213.0	7213.0	7213.0	7213.0	7213.0	7213.0
2.5°	7587.0	7600.3	7618.0	7640.1	7635.7	7615.8	7591.4	7536.1	7500.7	7390.0	7255.0
5°	7343.5	7341.3	7385.6	7427.6	7502.9	7542.7	7598.1	7547.2	7529.5	7396.7	7177.5
7.5°	6867.7	6892.0	6942.9	7009.3	7117.8	7235.1	7367.9	7352.4	7405.5	7317.0	7044.8
10°	6400.7	6387.4	6467.1	6566.7	6732.7	6883.2	7075.7	7073.5	7213.0	7204.1	6894.3
12.5°	5991.3	5989.0	6051.0	6163.9	6358.6	6568.9	6830.1	6836.7	7009.3	7080.2	6765.9
15°	5646.0	5650.4	5710.2	5827.5	6028.9	6285.6	6588.8	6644.2	6838.9	6982.8	6639.7
17.5°	5400.3	5402.5	5437.9	5539.7	5736.7	6011.2	6376.4	6451.6	6701.7	6909.7	6537.9
20°	5287.4	5278.6	5285.2	5336.1	5488.8	5738.9	6159.5	6256.8	6575.5	6858.8	6445.0
22.5°	5302.9	5289.7	5258.7	5252.0	5320.6	5511.0	5929.3	6048.8	6438.3	6827.9	6360.9
25°	5440.2	5411.4	5367.1	5300.7	5274.2	5369.3	5727.9	5851.8	6310.0	6830.1	6296.7
27.5°	5650.4	5619.4	5564.1	5475.6	5371.5	5331.7	5590.7	5708.0	6219.2	6881.0	6265.7
30°	5918.2	5893.9	5840.8	5734.5	5595.1	5431.3	5561.9	5659.3	6175.0	6985.0	6279.0
32.5°	6234.7	6217.0	6172.7	6075.4	5916.0	5665.9	5659.3	5734.5	6210.4	7135.5	6329.9
35°	6540.1	6546.8	6549.0	6495.9	6325.5	6022.2	5927.1	5953.6	6356.4	7361.2	6445.0
37.5°	6869.9	6854.4	6934.1	6971.7	6807.9	6484.8	6340.9	6343.2	6635.3	7695.4	6661.9
40°	7120.0	7124.4	7297.1	7452.0	7383.4	7071.3	6865.5	6863.3	7064.7	8153.6	7011.6
42.5°	7354.6	7383.4	7637.9	7903.5	7998.7	7722.0	7573.7	7518.4	7666.7	8773.3	7536.1
45°	7604.7	7646.8	8003.1	8381.6	8631.7	8467.9	8350.6	8372.7	8390.4	9494.8	8242.1
47.5°	7896.9	7923.4	8363.8	8897.2	9364.2	9322.2	9328.8	9302.3	9293.4	10404.5	9176.1
50°	8251.0	8312.9	8819.8	9457.2	10094.6	10373.5	10466.4	10477.5	10333.6	11396.0	10143.3
52.5°	9003.5	9078.7	9512.5	10070.3	10891.4	11477.9	11856.3	11781.1	11559.8	12356.5	11203.4
55°	9891.0	9948.5	10366.8	10944.5	11865.2	12688.5	13587.1	13556.1	13013.9	13368.0	12075.5
57.5°	9975.1	10039.3	10687.8	11573.1	13115.7	14184.7	15129.7	15229.3	14434.8	14085.1	12854.5
60°	9030.0	9160.6	10045.9	11236.6	13593.7	16196.5	16820.7	16840.6	15477.2	14813.2	13806.2
62.5°	7237.3	7299.3	8191.2	9744.9	12856.7	17369.5	19403.5	18983.0	16816.2	15939.8	15313.4
65°	3793.5	4045.8	4822.7	6542.3	10426.6	16960.1	22510.9	22395.8	19224.2	17553.2	16486.5
67.5°	2602.8	2600.6	2784.3	3410.6	6217.0	14603.0	24035.8	25301.8	22008.5	18106.5	15636.6
70°	1980.9	1987.5	2151.3	2558.5	3220.3	9720.6	22362.6	24527.2	22526.4	16440.0	12646.5
72.5°	1314.7	1327.9	1600.2	2067.2	2571.8	4765.1	17378.4	19624.8	18954.2	13204.2	8901.7
75°	785.7	796.8	991.5	1502.8	2286.3	2667.0	11041.9	13567.2	13047.1	9100.9	4771.8
77.5°	323.1	332.0	509.0	936.2	1673.2	2071.6	6106.3	8877.3	7815.0	3618.7	1303.6
80°	135.0	139.4	245.7	655.1	1206.2	1299.2	2828.5	4172.0	3202.6	779.1	398.4
82.5°	48.7	50.9	90.7	360.8	750.3	978.3	1427.5	1648.9	903.0	254.5	214.7
85°	2.2	2.2	22.1	121.7	285.5	276.7	816.7	790.1	298.8	106.2	128.4
87.5°	0.0	0.0	2.2	2.2	4.4	11.1	77.5	137.2	64.2	26.6	55.3
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°	7213.0	7213.0	7213.0	7213.0	7213.0	7213.0	7213.0	7213.0	7213.0	7213.0	7213.0
2.5°	7166.5	7049.2	6920.8	6801.3	6611.0	6498.1	6358.6	6296.7	6208.1	6186.0	6199.3
5°	7020.4	6819.0	6511.4	6232.5	5871.7	5581.8	5289.7	5165.7	5006.4	4900.1	4855.9
7.5°	6814.6	6551.2	6070.9	5564.1	5068.3	4539.4	4136.6	3871.0	3629.7	3496.9	3470.4
10°	6606.5	6263.5	5575.2	4849.2	4081.2	3448.2	2903.8	2501.0	2173.4	2025.1	1910.0
12.5°	6391.8	5964.7	5070.5	4123.3	3231.3	2368.2	1695.3	1303.6	1069.0	976.0	991.5
15°	6194.9	5677.0	4570.3	3397.3	2275.2	1429.8	936.2	790.1	734.8	717.1	714.9
17.5°	6006.7	5404.7	4072.4	2691.3	1500.6	876.4	717.1	681.7	666.2	657.3	657.3
20°	5836.3	5143.6	3585.5	2027.3	969.4	695.0	648.5	630.8	617.5	610.9	610.9
22.5°	5677.0	4891.3	3109.6	1434.2	714.9	624.1	595.4	577.7	562.2	553.3	553.3
25°	5533.1	4663.3	2655.9	987.1	615.3	571.0	540.0	520.1	493.6	478.1	478.1
27.5°	5429.1	4459.7	2219.9	719.3	555.5	513.5	478.1	451.5	422.7	405.0	400.6
30°	5367.1	4287.1	1779.4	590.9	500.2	458.1	418.3	385.1	351.9	334.2	332.0
32.5°	5331.7	4127.7	1376.6	515.7	453.7	405.0	360.8	325.3	292.1	272.2	270.0
35°	5345.0	4003.8	1031.4	464.8	409.5	358.5	309.9	274.4	245.7	228.0	223.5
37.5°	5460.1	3948.4	774.6	424.9	371.8	318.7	267.8	234.6	208.0	194.8	192.6
40°	5683.6	3959.5	608.6	394.0	340.8	278.9	230.2	199.2	179.3	168.2	166.0
42.5°	6031.1	4052.4	502.4	367.4	307.6	243.5	199.2	174.8	154.9	143.9	141.6
45°	6549.0	4245.0	438.2	336.4	272.2	210.3	172.6	150.5	132.8	119.5	117.3
47.5°	7299.3	4579.2	396.2	307.6	241.2	181.5	148.3	126.2	110.7	99.6	97.4
50°	8098.3	4979.8	360.8	278.9	214.7	157.1	126.2	104.0	90.7	79.7	77.5
52.5°	8950.4	5411.4	334.2	252.3	190.3	135.0	106.2	86.3	73.0	62.0	59.8
55°	9769.3	5845.2	303.2	234.6	161.6	115.1	88.5	70.8	57.5	48.7	48.7
57.5°	10566.0	6243.6	270.0	205.8	132.8	97.4	73.0	57.5	46.5	39.8	37.6
60°	11517.7	6794.7	232.4	174.8	110.7	81.9	59.8	46.5	37.6	31.0	31.0
62.5°	12932.0	7367.9	199.2	146.1	93.0	68.6	48.7	37.6	31.0	26.6	24.3
65°	13394.6	7058.0	168.2	119.5	75.3	55.3	39.8	33.2	26.6	24.3	22.1
67.5°	12159.6	5785.4	139.4	97.4	62.0	46.5	35.4	28.8	24.3	22.1	19.9
70°	9488.2	4105.6	108.4	73.0	50.9	37.6	31.0	26.6	22.1	19.9	19.9
72.5°	6453.8	2427.9	86.3	55.3	42.1	33.2	26.6	24.3	22.1	19.9	17.7
75°	3178.2	863.2	66.4	42.1	33.2	28.8	24.3	22.1	19.9	17.7	17.7
77.5°	856.5	239.0	50.9	33.2	26.6	22.1	22.1	22.1	19.9	15.5	15.5
80°	289.9	99.6	37.6	24.3	22.1	17.7	15.5	19.9	17.7	15.5	13.3
82.5°	159.4	48.7	26.6	19.9	15.5	13.3	13.3	13.3	13.3	11.1	11.1
85°	101.8	26.6	17.7	15.5	15.5	11.1	8.9	8.9	6.6	6.6	6.6
87.5°	46.5	15.5	15.5	13.3	13.3	11.1	6.6	4.4	2.2	2.2	2.2
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)