

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: P643781

Luminaire Tested: GWS-SA6F-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-750-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44635 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

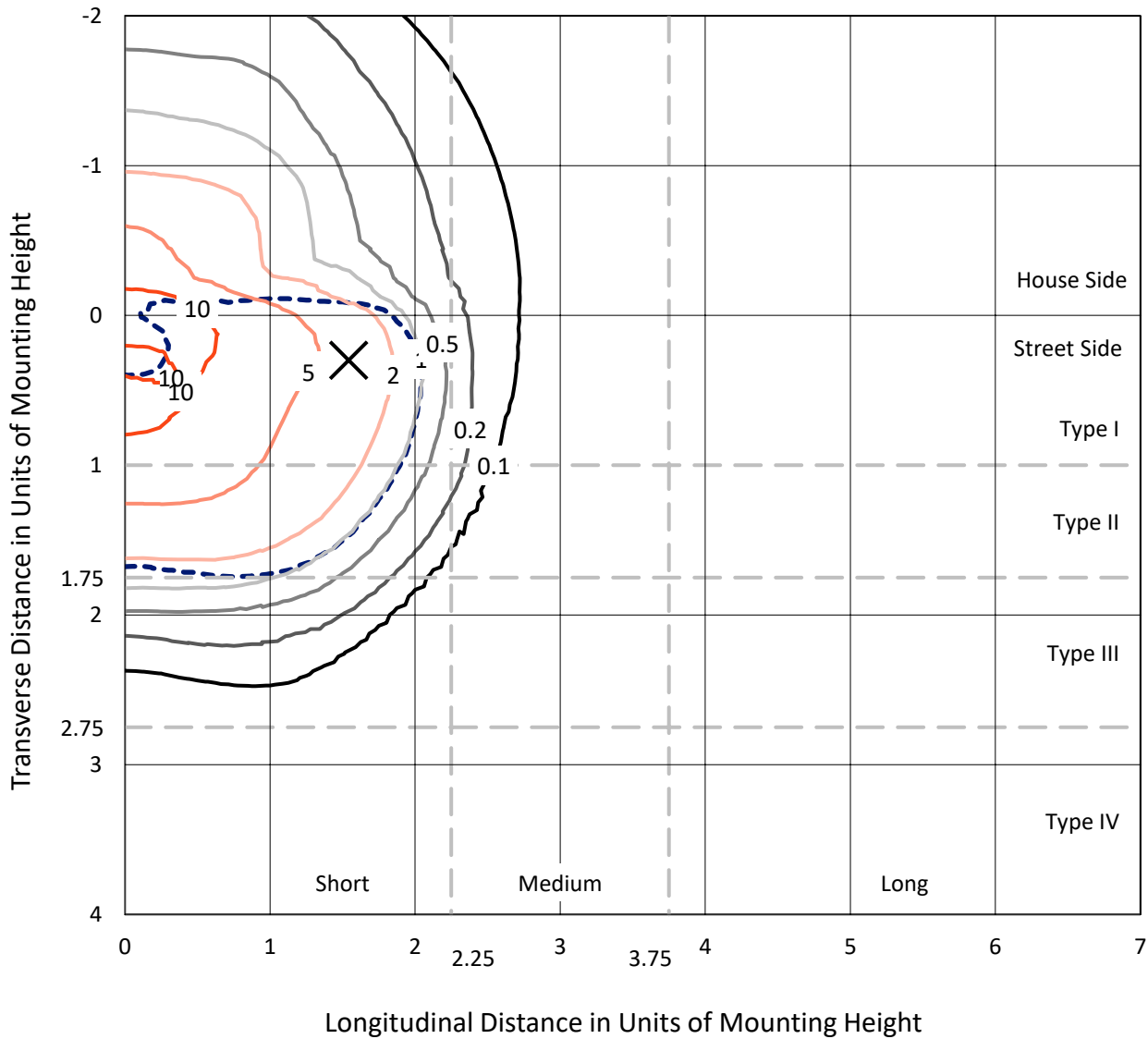
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

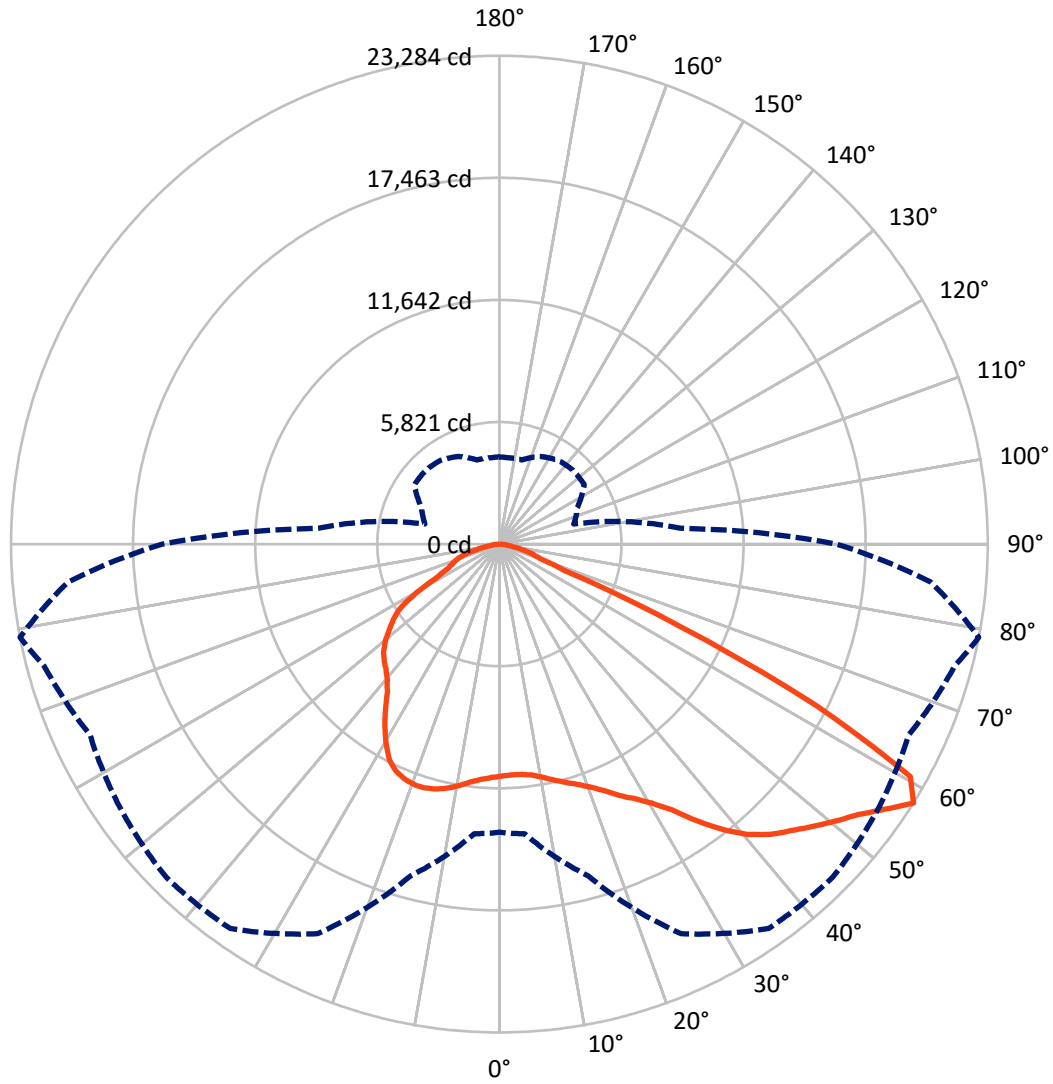
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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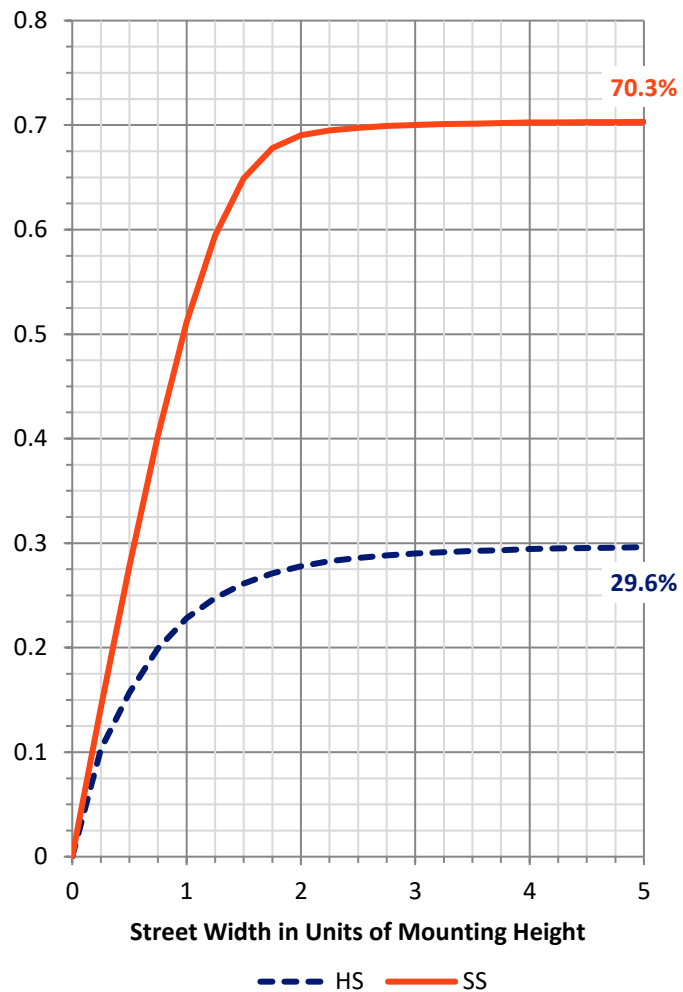
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13267.9	0.0	13267.9
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	31367.1	0.0	31367.1
	% Fixture	70.3	0.0	70.3
Total	Lumens	44635.0	0.0	44635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1024.4	2.3
10°-20°	2846.8	6.4
20°-30°	4825.5	10.8
30°-40°	7386.0	16.5
40°-50°	9848.5	22.1
50°-60°	11374.3	25.5
60°-70°	5910.4	13.2
70°-80°	1256.4	2.8
80°-90°	162.7	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°	44635.0	100.0
0°-180°	44635.0	100.0

Coefficient of Utilization



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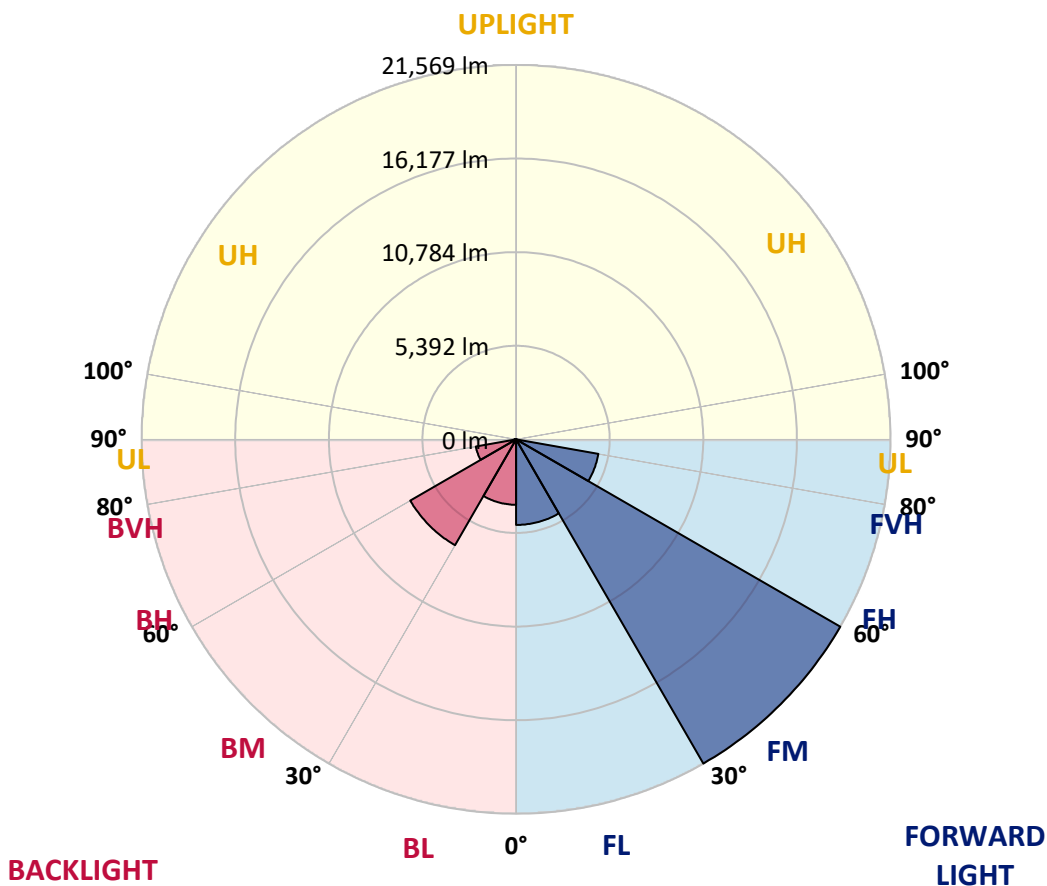
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4928.7	11.0			
FM (30°-60°)	21568.9	48.3			
FH (60°-80°)	4812.8	10.8			G2/5000
FVH (80°-90°)	56.7	0.1			G1/100
BL (0°-30°)	3767.9	8.4	B4/5000		
BM (30°-60°)	7039.9	15.8	B4/8500		
BH (60°-80°)	2354.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	106.0	0.2			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°	55°	65°	75°	79°	85°
0°	11061.6	11061.6	11061.6	11061.6	11061.6	11061.6	11061.6	11061.6	11061.6	11061.6	11061.6
2.5°	10558.0	10536.1	10543.4	10572.6	10682.0	10762.3	10846.3	10922.9	10995.9	11017.8	11036.0
5°	10182.1	10141.9	10152.9	10200.3	10328.0	10463.1	10612.7	10795.2	10970.3	11028.7	11105.4
7.5°	9915.6	9908.3	9926.6	9999.6	10134.6	10262.3	10455.8	10714.9	11017.8	11116.3	11251.4
10°	9561.6	9547.0	9620.0	9769.7	9992.3	10196.7	10426.6	10733.1	11156.5	11302.5	11510.5
12.5°	9280.6	9273.3	9350.0	9558.0	9842.7	10167.5	10485.0	10828.0	11342.6	11543.3	11798.8
15°	9444.9	9412.0	9415.7	9561.6	9817.1	10200.3	10630.9	10999.5	11528.7	11784.2	12112.6
17.5°	9922.9	9864.6	9820.8	9846.3	9992.3	10390.1	10853.6	11229.5	11744.0	12043.3	12444.7
20°	10583.5	10550.7	10430.2	10349.9	10382.8	10733.1	11203.9	11554.3	12025.0	12360.8	12791.4
22.5°	11470.3	11390.0	11225.8	11098.1	10999.5	11273.3	11707.5	12010.5	12415.5	12765.9	13214.8
25°	12568.8	12452.0	12192.9	11992.2	11780.5	12061.5	12448.4	12678.3	12952.0	13276.8	13703.8
27.5°	13689.2	13590.7	13302.4	13032.3	12769.5	12944.7	13404.6	13535.9	13506.7	13744.0	14108.9
30°	14882.6	14758.5	14484.8	14192.8	13853.4	13966.6	14379.0	14444.7	14134.5	14331.5	14579.7
32.5°	16141.7	16021.2	15784.0	15444.6	15061.4	15105.2	15218.3	15280.4	14984.8	15097.9	15287.7
35°	17422.6	17309.5	17068.6	16732.9	16451.9	16185.5	15900.8	16149.0	15977.4	16196.4	16181.8
37.5°	18594.1	18481.0	18331.4	18072.2	17590.5	17065.0	16408.1	16714.6	16981.0	17258.4	17211.0
40°	19386.1	19309.4	19345.9	19305.8	18685.4	17645.3	16656.2	16992.0	17718.2	18192.7	18167.1
42.5°	20068.5	19991.9	20203.5	20356.8	19626.9	18181.7	16776.7	17097.8	18189.0	18929.9	18893.4
45°	20371.4	20349.5	20699.9	21185.3	20488.2	18751.0	17086.9	17316.8	18546.7	19495.5	19356.9
47.5°	20010.1	20086.8	20776.5	21597.6	21203.5	19426.2	17721.9	17780.3	19013.8	20108.7	19718.2
50°	19291.2	19459.0	20389.7	21608.6	21725.4	20188.9	18601.4	18455.4	19641.5	20761.9	19907.9
52.5°	18243.8	18418.9	19937.1	21524.7	22024.6	21072.1	19772.9	19564.9	20433.5	21415.2	19940.8
55°	15838.8	16076.0	18900.7	21334.9	22316.6	21875.0	21094.0	20670.7	21455.3	22312.9	20265.6
57.5°	13740.3	13864.4	16375.2	20491.9	22375.0	22466.2	22035.6	21532.0	22469.9	23283.7	20630.5
60°	10083.5	10112.7	12371.7	16955.5	20583.1	22123.2	21958.9	21210.8	21988.1	22506.4	18959.1
62.5°	5696.8	5700.5	7503.3	11317.0	15375.3	18032.1	18134.3	17473.7	16820.5	16973.7	13196.5
65°	2138.6	2339.3	3426.9	5561.8	8864.6	10645.5	11068.9	11222.2	10134.6	9459.5	7076.3
67.5°	1430.6	1478.0	1999.9	2861.2	3945.1	4554.6	5094.7	5109.3	3737.1	3332.0	2788.2
70°	1091.2	1138.6	1572.9	2047.4	1999.9	1846.6	1996.3	1941.5	2007.2	2062.0	2120.4
72.5°	813.8	861.3	1218.9	1445.2	1200.7	1182.4	1339.4	1489.0	1627.7	1686.1	1777.3
75°	540.1	576.6	821.1	773.7	664.2	784.6	978.1	1127.7	1208.0	1277.3	1346.7
77.5°	343.1	368.6	437.9	354.0	368.6	459.8	569.3	704.4	781.0	850.3	886.8
80°	156.9	153.3	149.6	167.9	208.0	270.1	343.1	423.3	481.7	510.9	532.8
82.5°	62.0	69.3	76.6	91.2	113.1	146.0	193.4	248.2	295.6	302.9	321.2
85°	25.5	29.2	32.8	40.1	51.1	65.7	80.3	113.1	142.3	153.3	164.2
87.5°	0.0	0.0	0.0	0.0	3.6	7.3	10.9	18.2	32.8	36.5	40.1
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°	11061.6	11061.6	11061.6	11061.6	11061.6	11061.6	11061.6	11061.6	11061.6	11061.6	11061.6
2.5°	11134.6	11087.1	11167.4	11222.2	11273.3	11218.5	11200.3	11152.8	11145.5	11145.5	11171.1
5°	11236.8	11203.9	11287.9	11320.7	11317.0	11196.6	11123.6	11028.7	10981.3	10981.3	10988.6
7.5°	11419.2	11401.0	11448.4	11397.3	11280.6	11036.0	10795.2	10594.5	10459.4	10390.1	10412.0
10°	11722.1	11700.2	11660.1	11470.3	11134.6	10627.3	10134.6	9769.7	9550.7	9426.6	9433.9
12.5°	12017.7	11981.3	11838.9	11419.2	10729.5	9922.9	9277.0	8868.2	8627.4	8481.4	8448.6
15°	12342.6	12247.7	11941.1	11156.5	10068.9	9061.7	8386.5	7944.9	7685.8	7598.2	7594.6
17.5°	12652.8	12484.9	11930.2	10689.3	9277.0	8160.2	7481.4	7207.7	7163.9	7204.1	7215.0
20°	12966.6	12696.6	11809.7	10043.4	8335.4	7262.5	6912.1	7025.3	7189.5	7299.0	7324.5
22.5°	13291.4	12871.7	11536.0	9211.3	7342.8	6656.7	6802.6	7050.8	7255.2	7401.2	7415.8
25°	13656.4	13036.0	11127.3	8193.1	6547.2	6488.8	6777.1	7039.9	7258.8	7426.7	7455.9
27.5°	13864.4	13039.6	10554.3	7145.7	6182.2	6423.1	6715.0	6963.2	7182.2	7364.7	7397.5
30°	14068.8	12941.1	9645.6	6295.4	6076.4	6346.5	6609.2	6839.1	7047.2	7226.0	7266.1
32.5°	14357.1	12849.8	8598.2	5806.3	6014.3	6273.5	6488.8	6693.2	6853.7	6934.0	6955.9
35°	14714.7	12733.0	7485.1	5594.7	5974.2	6215.1	6404.8	6514.3	6306.3	6262.5	6310.0
37.5°	15214.7	12623.6	6375.6	5503.4	5948.7	6193.2	6361.1	6080.0	5824.6	5722.4	5758.9
40°	15754.8	12561.5	5623.9	5430.4	5959.6	6215.1	6178.6	5762.5	5393.9	5178.6	5171.3
42.5°	16214.7	12466.6	5142.1	5383.0	5988.8	6299.0	5930.4	5481.5	4934.1	4806.4	4810.0
45°	16524.9	12225.8	4886.7	5331.9	6014.3	6317.3	5813.6	5094.7	4704.2	4623.9	4620.2
47.5°	16652.6	11787.8	4722.4	5251.6	6010.7	6167.6	5576.4	4934.1	4543.6	4521.7	4536.3
50°	16568.7	11068.9	4554.6	5094.7	5923.1	6010.7	5302.7	4791.8	4434.1	4554.6	4642.1
52.5°	16258.4	10138.3	4353.8	4879.4	5766.2	5831.9	5164.0	4704.2	4353.8	4514.4	4583.8
55°	16178.2	9382.8	4098.4	4598.3	5532.6	5514.4	5018.0	4660.4	4299.1	4237.1	4248.0
57.5°	16072.3	8645.6	3675.0	4094.7	4941.4	4970.6	4879.4	4609.3	4156.8	4138.5	4156.8
60°	13962.9	6627.5	3277.2	3532.7	4058.2	4215.2	4722.4	4514.4	3926.8	3850.2	3846.6
62.5°	9120.1	4014.4	2915.9	3080.2	3306.4	3488.9	4306.4	4240.7	3675.0	3627.6	3660.4
65°	4904.9	2861.2	2653.2	2751.7	2875.8	3014.5	3569.2	3777.2	3321.0	3153.2	3156.8
67.5°	2507.2	2434.2	2456.1	2525.4	2620.3	2689.7	2879.4	3061.9	2832.0	2689.7	2686.0
70°	2145.9	2204.3	2237.1	2277.3	2339.3	2328.4	2346.6	2379.5	2361.2	2291.9	2288.2
72.5°	1828.4	1919.6	1926.9	1934.2	1956.1	1905.0	1872.2	1817.4	1821.1	1832.0	1835.7
75°	1390.5	1478.0	1499.9	1489.0	1510.9	1445.2	1401.4	1346.7	1281.0	1270.0	1277.3
77.5°	905.1	974.4	1007.3	1000.0	1010.9	959.8	937.9	879.5	802.9	773.7	773.7
80°	547.4	587.6	613.1	620.4	631.4	594.9	558.4	507.3	474.4	441.6	441.6
82.5°	332.1	357.6	375.9	375.9	386.8	346.7	317.5	281.0	266.4	237.2	237.2
85°	167.9	186.1	193.4	189.8	182.5	149.6	138.7	120.4	113.1	98.5	98.5
87.5°	40.1	51.1	51.1	36.5	36.5	18.2	10.9	3.6	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)