

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: P643909

Luminaire Tested: GWS-SA6F-830-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-830-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33155.4 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

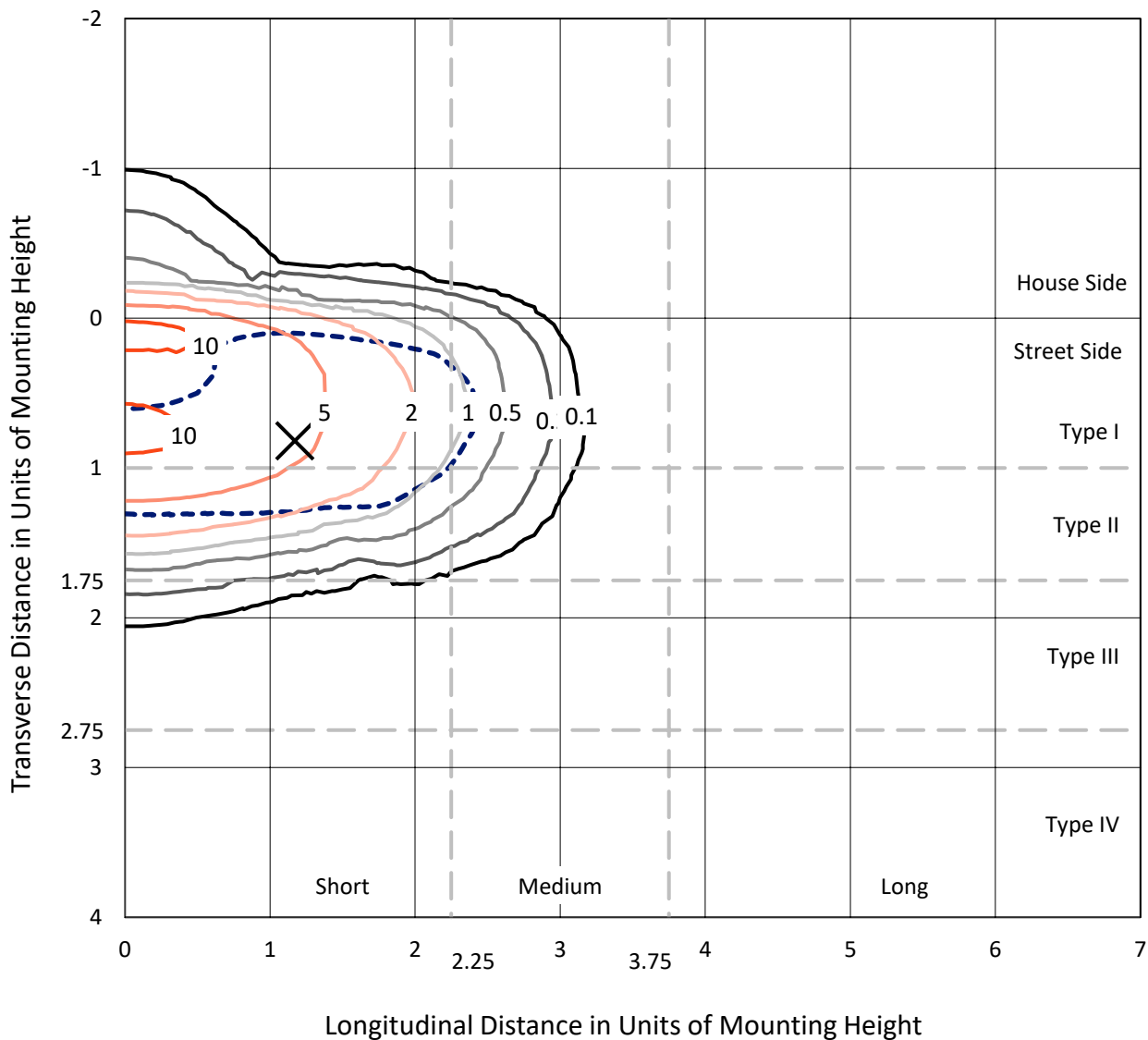
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643909
 CATALOG NUMBER: GWS-SA6F-830-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

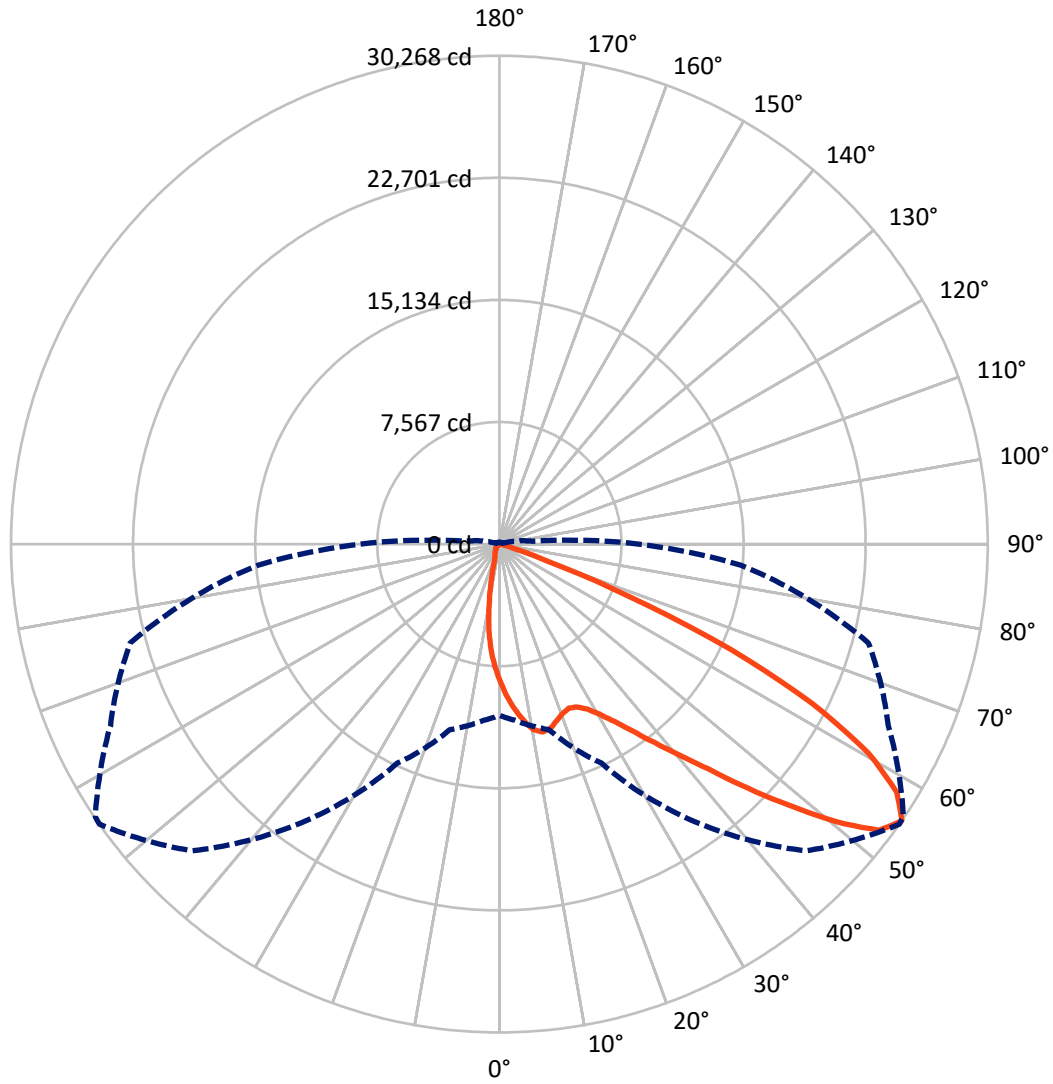
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

REPORT NUMBER: P643909
CATALOG NUMBER: GWS-SA6F-830-U-AFL-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P643909
 CATALOG NUMBER: GWS-SA6F-830-U-AFL-W-HSS

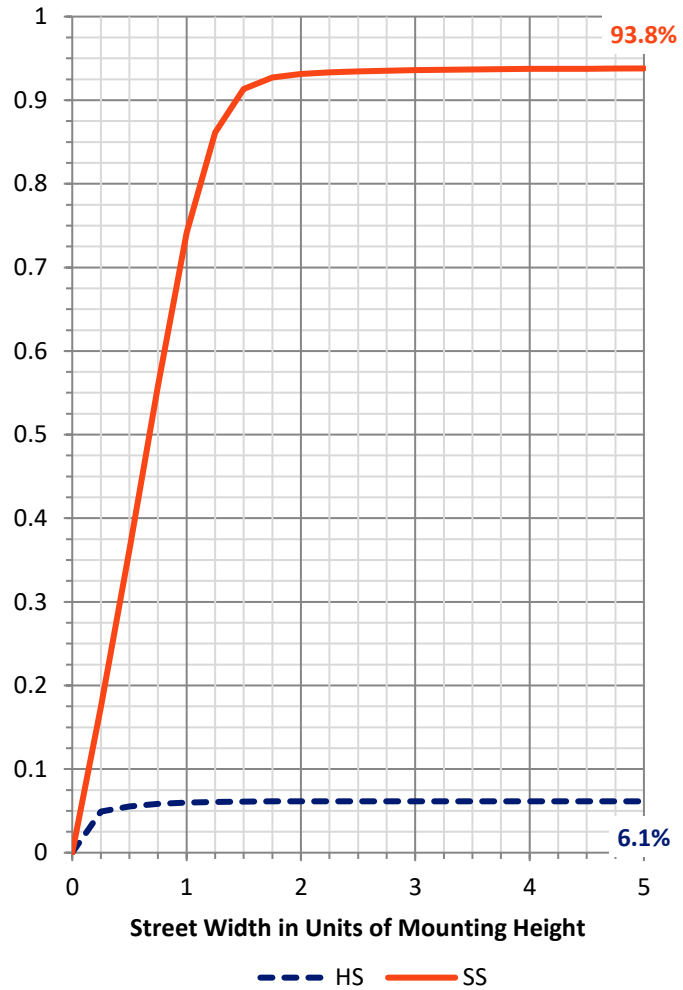
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2045.8	0.0	2045.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	31109.6	0.0	31109.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	33155.4	0.0	33155.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.0	2.3
10°-20°	1825.0	5.5
20°-30°	3039.3	9.2
30°-40°	5179.1	15.6
40°-50°	8454.2	25.5
50°-60°	8851.1	26.7
60°-70°	4464.3	13.5
70°-80°	563.9	1.7
80°-90°	21.4	0.1
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°	33155.4	100.0
0°-180°	33155.4	100.0

Coefficient of Utilization

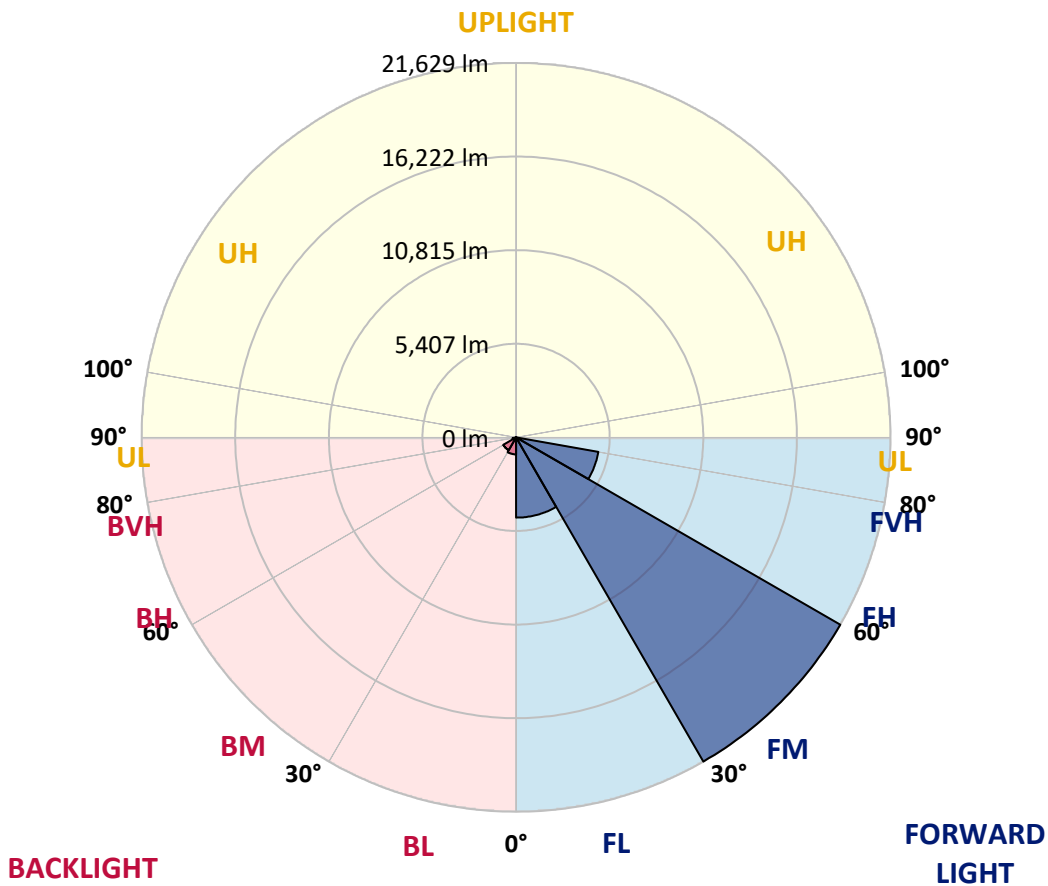


REPORT NUMBER: P643909
 CATALOG NUMBER: GWS-SA6F-830-U-AFL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4638.0	14.0			
FM (30°-60°)	21629.1	65.2			
FH (60°-80°)	4823.0	14.5			G2/5000
FVH (80°-90°)	19.5	0.1			G1/100
BL (0°-30°)	983.3	3.0	B2/1000		
BM (30°-60°)	855.4	2.6	B1/1000		
BH (60°-80°)	205.2	0.6	B1/500		G1/500
BVH (80°-90°)	1.9	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-G2
 Type II Short





REPORT NUMBER: P643909

CATALOG NUMBER: GWS-SA6F-830-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8565.4	8565.4	8565.4	8565.4	8565.4	8565.4	8565.4	8565.4	8565.4	8565.4	8565.4
2.5°	9985.4	9937.2	10010.9	9925.9	9781.4	9659.5	9500.7	9444.1	9189.0	8948.1	8715.6
5°	11198.5	11212.7	11190.0	11071.0	10866.9	10640.2	10319.9	10249.0	9804.0	9344.9	8848.8
7.5°	11499.0	11490.5	11538.6	11584.0	11550.0	11436.6	11088.0	11017.1	10464.4	9775.7	9052.9
10°	10572.1	10577.8	10677.0	10983.1	11362.9	11756.9	11703.0	11663.4	11122.0	10263.2	9279.7
12.5°	9262.7	9313.7	9418.6	9855.0	10498.4	11394.1	11949.6	11989.3	11725.7	10798.9	9546.1
15°	8695.8	8707.1	8792.2	9055.8	9534.8	10640.2	11844.8	11955.3	12230.2	11337.4	9835.2
17.5°	8681.6	8695.8	8732.6	8848.8	9160.6	10047.8	11507.5	11700.2	12610.0	11915.6	10181.0
20°	9214.5	9206.0	9180.5	9118.1	9254.2	9852.2	11195.7	11408.3	12816.9	12479.7	10529.6
22.5°	10181.0	10169.7	10056.3	9798.4	9687.8	10030.8	11042.6	11235.4	12941.7	12981.3	10815.9
25°	11294.9	11374.3	11161.7	10770.5	10498.4	10487.1	11178.7	11314.7	13049.4	13426.3	11011.5
27.5°	12516.5	12542.0	12360.6	11921.3	11527.3	11218.4	11572.7	11674.7	13168.4	13823.1	11122.0
30°	13857.1	13848.6	13641.7	13131.6	12652.5	12207.6	12235.9	12275.6	13446.2	14276.6	11243.9
32.5°	15532.3	15569.1	15200.6	14506.2	13930.8	13315.8	13103.2	13108.9	13947.8	14860.5	11428.1
35°	17808.2	17717.5	17230.0	16240.8	15260.2	14596.9	14234.1	14202.9	14721.6	15645.6	11748.4
37.5°	19976.5	19985.0	19474.8	18386.4	17147.8	16102.0	15588.9	15503.9	15810.0	16734.0	12281.2
40°	21481.6	21509.9	21297.3	20727.6	19415.3	17935.8	17181.8	17094.0	17221.5	18111.5	12978.5
42.5°	22278.0	22357.4	22416.9	22550.1	21555.3	20225.9	19066.7	19058.2	18925.0	19681.7	13786.3
45°	22309.2	22428.2	22791.0	23700.9	23814.2	22839.2	21577.9	21388.0	20875.0	21362.5	14509.1
47.5°	21076.2	21351.2	22122.1	23924.8	25115.2	25438.3	24188.4	24072.2	22632.3	22691.8	15050.4
50°	18202.2	18488.5	19908.5	22776.9	25444.0	27501.7	27053.9	26813.0	24100.5	23570.5	15311.2
52.5°	15254.5	15515.2	16478.9	20044.5	24080.7	28150.8	29468.8	29182.5	25418.5	23876.6	15203.5
55°	10614.7	10963.3	11904.3	14982.4	20940.2	26886.7	30268.1	30208.5	26594.7	23683.8	15036.2
57.5°	5203.9	5549.7	6487.8	9237.2	15512.4	23474.1	29046.4	29361.1	27297.6	23476.9	14900.2
60°	2173.9	2315.7	2638.8	4053.1	8678.8	17740.2	26288.6	26725.1	26866.8	23196.3	14886.0
62.5°	1261.3	1284.0	1318.0	1680.8	3375.7	10169.7	21807.5	22428.2	24602.2	22825.0	14662.1
65°	952.3	960.8	946.7	1031.7	1394.5	3857.6	15756.2	16600.8	20534.9	21373.9	13777.8
67.5°	782.3	782.3	745.4	762.4	875.8	1445.5	8698.6	9877.7	15195.0	17567.3	11377.1
70°	623.6	637.7	620.7	598.0	626.4	799.3	3095.1	3837.7	8848.8	10373.7	6635.2
72.5°	473.3	473.3	501.7	484.7	464.8	501.7	1079.9	1213.1	3551.4	4325.2	2395.0
75°	365.6	377.0	396.8	379.8	351.5	297.6	518.7	549.9	1071.4	1006.2	535.7
77.5°	187.1	189.9	252.3	277.8	260.8	181.4	226.7	249.4	348.6	311.8	198.4
80°	113.4	119.0	141.7	218.2	172.9	96.4	93.5	99.2	164.4	141.7	82.2
82.5°	48.2	51.0	79.4	79.4	70.9	36.8	36.8	36.8	79.4	73.7	34.0
85°	0.0	0.0	14.2	11.3	11.3	14.2	14.2	14.2	19.8	28.3	17.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P643909
 CATALOG NUMBER: GWS-SA6F-830-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8565.4	8565.4	8565.4	8565.4	8565.4	8565.4	8565.4	8565.4	8565.4	8565.4	8565.4
2.5°	8565.4	8384.0	8140.3	7919.2	7621.6	7454.3	7221.9	7032.0	6870.5	6819.5	6796.8
5°	8568.2	8256.5	7734.9	7213.4	6572.9	6068.3	5549.7	5138.7	4801.4	4693.7	4665.3
7.5°	8624.9	8165.8	7321.1	6374.5	5303.1	4418.8	3628.0	2919.4	2590.6	2480.1	2457.4
10°	8701.5	8089.2	6842.1	5368.3	3829.2	2692.6	1907.5	1454.0	1238.6	1119.6	1136.6
12.5°	8800.7	8026.9	6312.1	4279.9	2533.9	1479.5	1048.7	878.6	833.3	810.6	799.3
15°	8933.9	7953.2	5654.5	3200.0	1553.2	952.3	807.8	762.4	745.4	734.1	731.3
17.5°	9069.9	7868.2	4985.6	2250.5	1031.7	790.8	725.6	702.9	691.6	683.1	680.2
20°	9214.5	7723.6	4200.5	1550.4	813.5	711.4	668.9	643.4	629.2	615.1	612.2
22.5°	9276.8	7491.2	3449.4	1085.6	722.8	654.7	600.9	569.7	552.7	541.4	541.4
25°	9217.3	7114.2	2672.8	824.8	657.6	592.4	538.5	504.5	490.3	479.0	479.0
27.5°	9058.6	6629.6	1950.0	683.1	586.7	527.2	476.2	445.0	433.7	428.0	428.0
30°	8882.9	6017.3	1374.7	586.7	507.3	459.2	416.6	396.8	394.0	388.3	388.3
32.5°	8732.6	5444.8	946.7	515.9	447.8	399.6	371.3	362.8	365.6	360.0	362.8
35°	8650.4	4883.6	702.9	459.2	399.6	354.3	340.1	340.1	340.1	337.3	337.3
37.5°	8684.5	4330.9	572.5	419.5	357.1	323.1	308.9	314.6	320.3	320.3	320.3
40°	8854.5	3840.5	507.3	382.6	320.3	294.8	283.4	291.9	300.4	306.1	306.1
42.5°	9069.9	3443.7	459.2	351.5	294.8	266.4	260.8	269.3	277.8	283.4	283.4
45°	9206.0	3044.1	411.0	311.8	269.3	235.3	235.3	246.6	243.8	246.6	246.6
47.5°	9268.3	2726.6	362.8	269.3	229.6	204.1	206.9	212.6	206.9	212.6	212.6
50°	9115.3	2406.4	320.3	223.9	189.9	178.6	184.2	181.4	181.4	192.7	192.7
52.5°	8834.7	2168.3	283.4	189.9	161.6	158.7	164.4	153.1	155.9	155.9	153.1
55°	8627.8	2032.2	252.3	164.4	138.9	141.7	138.9	119.0	107.7	96.4	93.5
57.5°	8525.7	1978.4	229.6	147.4	124.7	124.7	113.4	82.2	62.4	48.2	42.5
60°	8503.1	1913.2	206.9	127.5	110.5	104.9	82.2	48.2	31.2	22.7	19.8
62.5°	8287.6	1754.5	187.1	102.0	96.4	85.0	51.0	28.3	17.0	11.3	8.5
65°	7581.9	1442.7	167.2	79.4	73.7	62.4	31.2	17.0	8.5	2.8	0.0
67.5°	6031.5	1023.2	147.4	59.5	51.0	39.7	19.8	11.3	2.8	0.0	0.0
70°	3477.8	552.7	121.9	42.5	34.0	25.5	14.2	5.7	0.0	0.0	0.0
72.5°	1162.1	257.9	93.5	28.3	25.5	19.8	8.5	2.8	0.0	0.0	0.0
75°	255.1	153.1	62.4	19.8	17.0	14.2	5.7	0.0	0.0	0.0	0.0
77.5°	96.4	107.7	31.2	14.2	11.3	8.5	2.8	0.0	0.0	0.0	0.0
80°	36.8	70.9	14.2	8.5	8.5	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	19.8	28.3	8.5	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.3	14.2	5.7	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	2.8	2.8	2.8	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)