

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: P637747

Luminaire Tested: GWS-SA4D-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-740-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18443.7 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

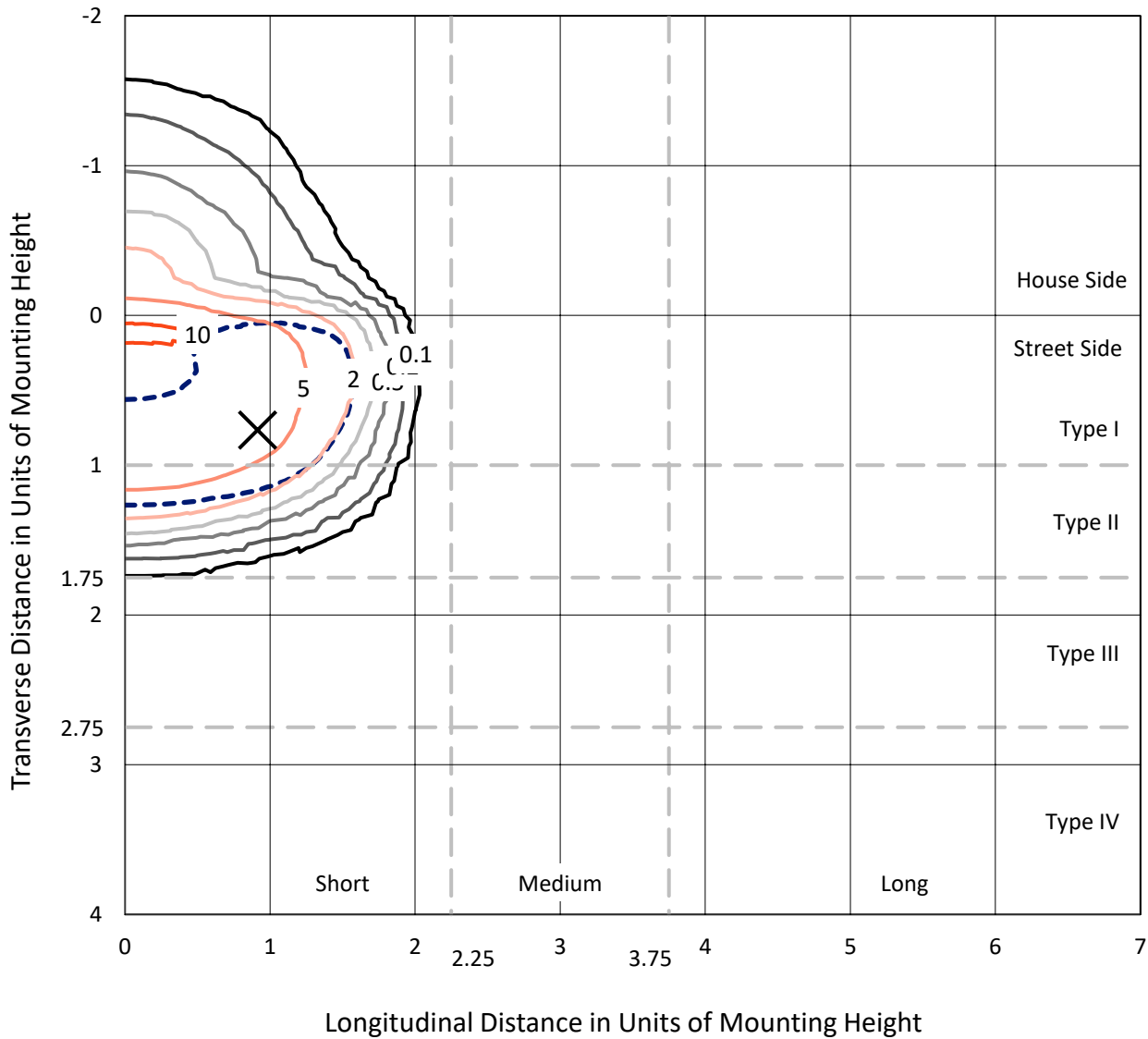
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

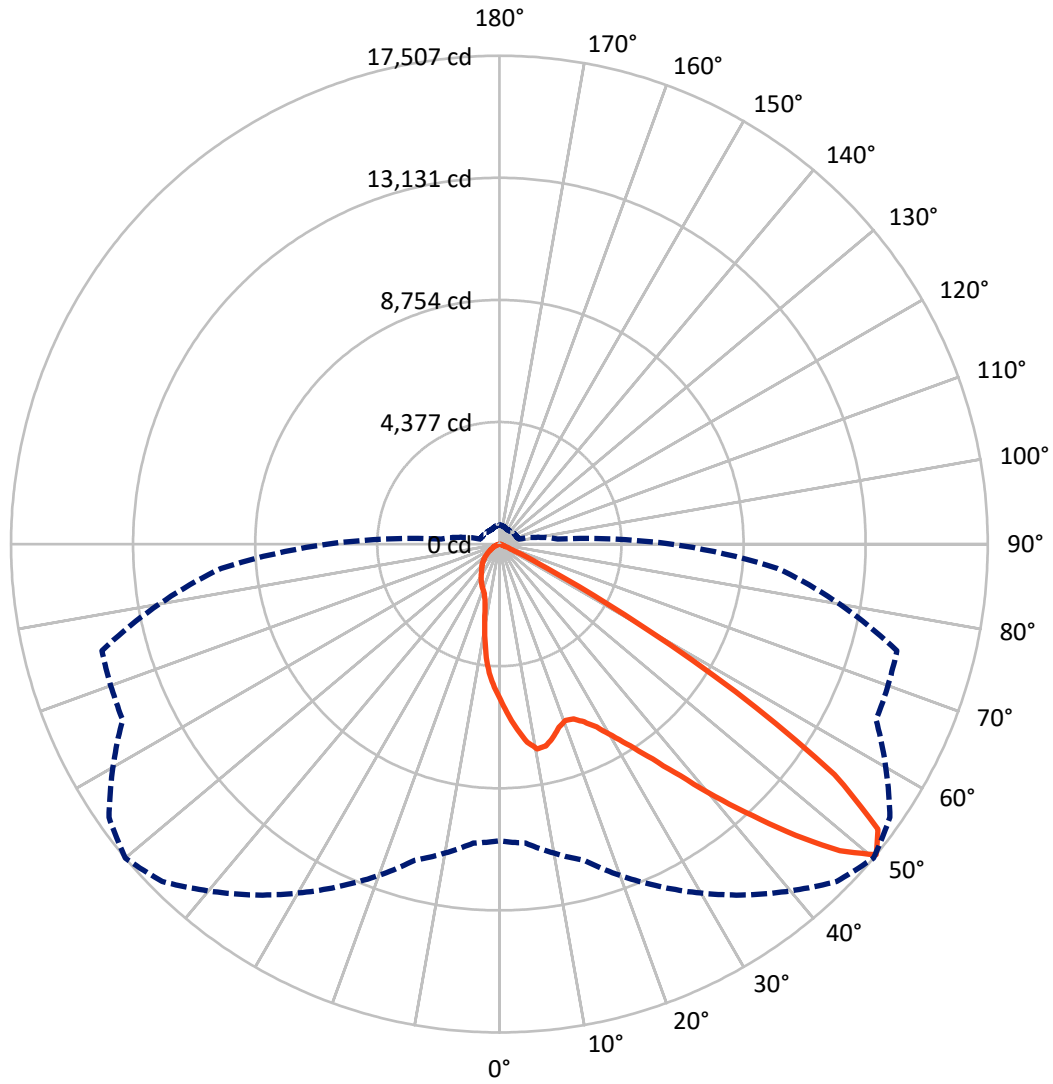
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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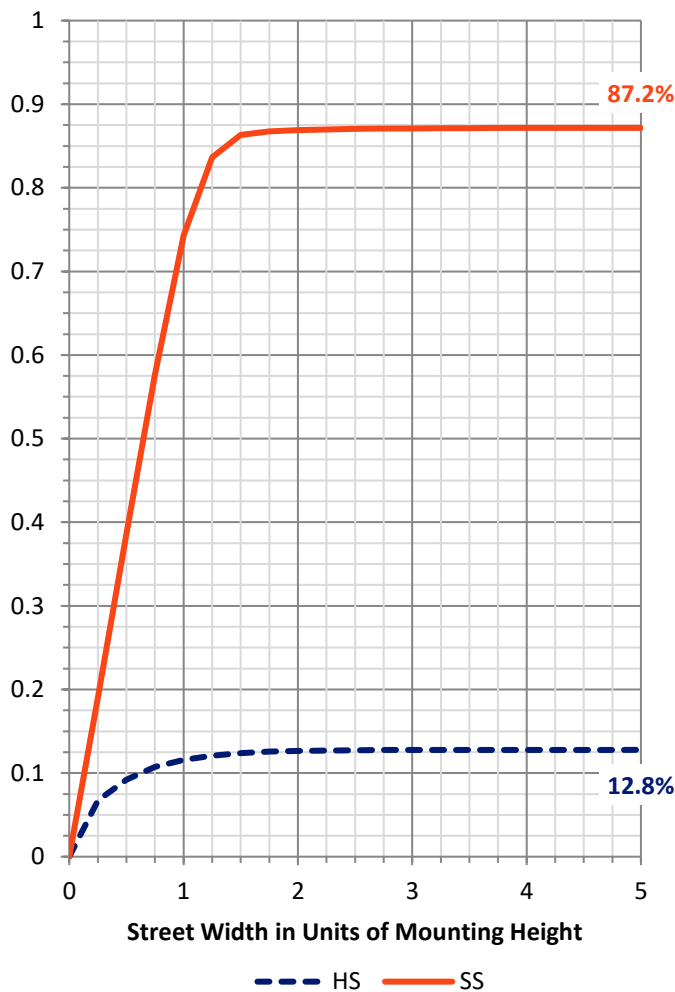
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2369.7	0.0	2369.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	16074.0	0.0	16074.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	18443.7	0.0	18443.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.3	2.8
10°-20°	1337.4	7.3
20°-30°	2207.1	12.0
30°-40°	3642.2	19.7
40°-50°	5762.9	31.2
50°-60°	4363.2	23.7
60°-70°	546.1	3.0
70°-80°	61.8	0.3
80°-90°	4.7	0.0
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°	18443.7	100.0
0°-180°	18443.7	100.0

Coefficient of Utilization



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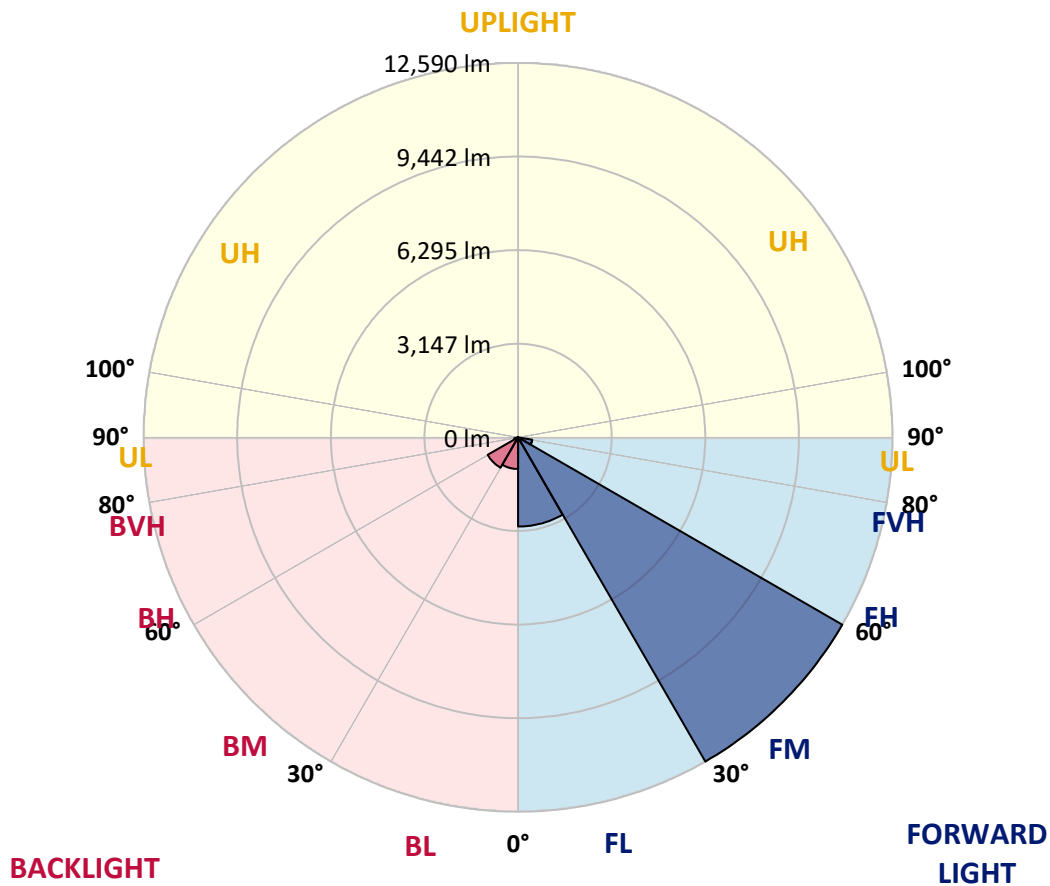
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2999.2	16.3			
FM (30°-60°)	12589.8	68.3			
FH (60°-80°)	482.8	2.6			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1063.6	5.8	B3/2500		
BM (30°-60°)	1178.5	6.4	B2/2500		
BH (60°-80°)	125.1	0.7	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7
2.5°	6367.1	6418.1	6404.0	6337.3	6265.3	6214.4	6135.4	6110.8	5931.8	5807.1	5675.5
5°	7136.0	7151.8	7134.3	7053.5	6927.1	6806.0	6676.1	6600.6	6300.4	6030.1	5754.5
7.5°	7320.4	7301.1	7334.4	7374.8	7357.2	7304.6	7167.6	7085.1	6727.0	6286.4	5868.6
10°	6744.6	6700.7	6825.3	7034.2	7253.7	7501.2	7466.1	7473.1	7143.1	6609.4	6017.8
12.5°	5980.9	5963.4	6056.4	6298.7	6728.8	7290.5	7425.7	7652.2	7524.0	6958.7	6188.1
15°	5645.6	5654.4	5710.6	5863.3	6172.3	6871.0	7195.7	7604.8	7864.6	7297.5	6375.9
17.5°	5696.5	5728.1	5726.4	5777.3	5965.1	6525.1	6904.3	7455.5	8127.9	7687.3	6591.8
20°	6042.4	6074.0	6026.6	5988.0	6051.2	6437.4	6751.6	7304.6	8305.2	8080.5	6820.1
22.5°	6560.2	6597.1	6484.8	6374.2	6333.8	6581.3	6809.5	7243.1	8440.4	8440.4	7023.7
25°	7187.0	7237.9	7064.1	6867.5	6755.1	6885.0	7057.0	7381.8	8579.1	8763.4	7162.4
27.5°	7887.4	7889.1	7739.9	7518.7	7308.1	7323.9	7427.5	7694.3	8731.8	9111.0	7271.2
30°	8675.6	8680.9	8482.5	8217.4	7952.3	7880.4	7968.1	8170.0	9049.5	9548.1	7422.2
32.5°	9693.8	9718.4	9434.0	9044.3	8700.2	8565.0	8615.9	8828.3	9555.1	10095.8	7648.6
35°	11070.1	11096.4	10676.9	10162.5	9614.8	9411.2	9462.1	9676.2	10287.1	10873.5	8010.3
37.5°	12428.8	12463.9	12039.1	11559.9	10808.5	10471.5	10524.1	10727.8	11386.1	11947.8	8589.6
40°	13368.0	13415.4	13283.8	12960.7	12263.8	11821.4	11884.6	11958.4	12595.6	13232.8	9340.9
42.5°	13863.1	13929.8	13985.9	14151.0	13784.1	13413.7	13306.6	13311.8	13826.2	14542.4	10122.1
45°	13892.9	13957.9	14245.8	14883.0	15162.1	15084.9	14890.0	14758.4	14765.4	15414.9	10610.1
47.5°	12927.4	13048.5	13587.5	14835.6	15885.4	16526.1	16427.8	16115.3	15160.4	15472.8	10557.5
50°	10640.0	10759.4	11738.9	13534.8	15358.7	17101.9	17507.4	17087.9	14902.3	14751.3	10015.0
52.5°	7727.6	7739.9	8375.4	10473.2	13224.1	16039.9	16994.8	16954.5	14509.1	13877.1	9274.2
55°	3670.7	3626.8	4341.3	5910.7	9146.1	12973.0	14582.8	15039.2	13950.8	13245.1	8700.2
57.5°	1069.1	1090.2	1407.9	2306.7	4574.8	8291.2	9987.0	10836.6	11451.0	10889.3	6748.1
60°	479.2	481.0	535.4	702.2	1523.8	3856.8	5162.9	6214.4	6846.4	6344.3	3347.7
62.5°	347.6	349.3	370.4	396.7	517.9	1306.1	1936.3	2580.6	2628.0	1720.4	847.9
65°	289.7	289.7	293.2	293.2	310.7	467.0	588.1	758.4	639.0	474.0	331.8
67.5°	233.5	235.2	238.7	238.7	233.5	233.5	252.8	277.4	296.7	366.9	305.5
70°	182.6	180.8	180.8	182.6	177.3	151.0	163.3	186.1	203.6	286.1	265.1
72.5°	142.2	143.9	142.2	135.2	122.9	89.5	96.6	121.1	129.9	179.1	179.1
75°	107.1	108.8	101.8	77.2	50.9	28.1	36.9	59.7	75.5	87.8	65.0
77.5°	14.0	14.0	10.5	10.5	8.8	10.5	10.5	14.0	21.1	21.1	15.8
80°	1.8	1.8	1.8	3.5	5.3	7.0	7.0	7.0	7.0	8.8	8.8
82.5°	1.8	1.8	1.8	1.8	5.3	5.3	7.0	7.0	7.0	7.0	7.0
85°	0.0	0.0	0.0	1.8	3.5	5.3	5.3	7.0	7.0	7.0	7.0
87.5°	0.0	0.0	0.0	1.8	3.5	5.3	5.3	5.3	7.0	7.0	7.0
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°	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7
2.5°	5596.5	5494.7	5371.8	5287.5	5168.1	5089.2	4976.8	4901.3	4836.4	4785.5	4813.5
5°	5598.2	5436.7	5185.7	4971.5	4738.1	4523.9	4293.9	4113.1	3949.8	3876.1	3916.5
7.5°	5633.4	5401.6	5017.2	4636.2	4188.6	3746.2	3331.9	2994.9	2828.1	2749.1	2773.7
10°	5701.8	5385.8	4829.3	4197.4	3470.6	2866.7	2464.7	2236.5	2143.4	2094.3	2103.1
12.5°	5765.0	5375.3	4585.3	3619.8	2738.6	2224.2	2015.3	1983.7	2003.0	2004.8	2003.0
15°	5851.0	5356.0	4283.4	3026.5	2190.8	1922.3	1927.5	1973.2	2018.8	2032.9	2029.3
17.5°	5942.3	5326.1	3893.7	2457.7	1859.1	1834.5	1895.9	1957.4	2003.0	2010.0	2011.8
20°	6037.1	5264.7	3449.5	2006.5	1704.6	1767.8	1836.2	1881.9	1915.2	1925.8	1929.3
22.5°	6081.0	5134.8	2936.9	1683.5	1601.0	1685.3	1736.2	1795.9	1806.4	1767.8	1774.8
25°	6058.2	4915.4	2436.6	1465.8	1497.4	1581.7	1657.2	1627.3	1583.4	1555.4	1564.1
27.5°	5986.2	4623.9	1946.8	1306.1	1386.8	1493.9	1502.7	1469.3	1462.3	1439.5	1446.5
30°	5909.0	4288.6	1565.9	1177.9	1274.5	1386.8	1360.5	1372.8	1374.5	1348.2	1357.0
32.5°	5861.6	3937.6	1246.4	1091.9	1202.5	1223.6	1276.2	1300.8	1302.6	1241.1	1251.7
35°	5877.4	3591.7	1055.0	1021.7	1135.8	1130.5	1204.3	1218.3	1116.5	1032.2	1041.0
37.5°	6005.5	3272.2	946.2	967.3	1019.9	1060.3	1116.5	1023.4	1000.6	962.0	967.3
40°	6244.3	3000.1	881.3	933.9	940.9	1005.9	919.9	932.2	933.9	909.3	914.6
42.5°	6523.4	2773.7	842.6	914.6	897.1	907.6	821.6	846.1	872.5	861.9	863.7
45°	6663.8	2552.5	809.3	847.9	853.2	753.1	733.8	760.1	793.5	798.7	800.5
47.5°	6539.2	2341.8	774.2	751.3	786.5	686.4	663.6	672.4	711.0	732.0	735.5
50°	6158.2	2099.6	721.5	665.3	646.0	616.2	595.1	596.9	640.8	677.6	684.6
52.5°	5622.8	1846.8	635.5	563.5	519.6	542.4	547.7	537.2	577.6	614.4	621.4
55°	5103.2	1530.8	503.8	458.2	417.8	467.0	481.0	467.0	479.2	503.8	505.6
57.5°	3593.5	865.5	386.2	379.2	345.8	400.3	423.1	402.0	380.9	396.7	400.3
60°	1666.0	452.9	296.7	296.7	287.9	344.1	382.7	352.9	312.5	319.5	324.8
62.5°	521.4	286.1	217.7	205.4	235.2	293.2	324.8	294.9	247.5	247.5	254.5
65°	294.9	245.8	172.0	158.0	191.3	235.2	254.5	222.9	180.8	177.3	177.3
67.5°	273.9	233.5	152.7	128.2	135.2	151.0	158.0	136.9	124.6	122.9	124.6
70°	226.5	194.9	122.9	87.8	82.5	80.8	84.3	79.0	75.5	77.2	82.5
72.5°	140.4	117.6	77.2	52.7	45.6	43.9	43.9	43.9	42.1	42.1	42.1
75°	50.9	43.9	35.1	26.3	22.8	21.1	21.1	22.8	21.1	19.3	17.6
77.5°	15.8	14.0	14.0	14.0	12.3	10.5	8.8	8.8	7.0	5.3	5.3
80°	8.8	8.8	8.8	8.8	7.0	7.0	5.3	3.5	1.8	1.8	0.0
82.5°	8.8	8.8	8.8	7.0	7.0	7.0	5.3	3.5	1.8	0.0	0.0
85°	7.0	7.0	7.0	7.0	7.0	7.0	5.3	3.5	1.8	0.0	0.0
87.5°	7.0	7.0	7.0	7.0	7.0	7.0	5.3	3.5	1.8	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)