

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: P637007

Luminaire Tested: GWS-SA4B-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637007  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-830-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

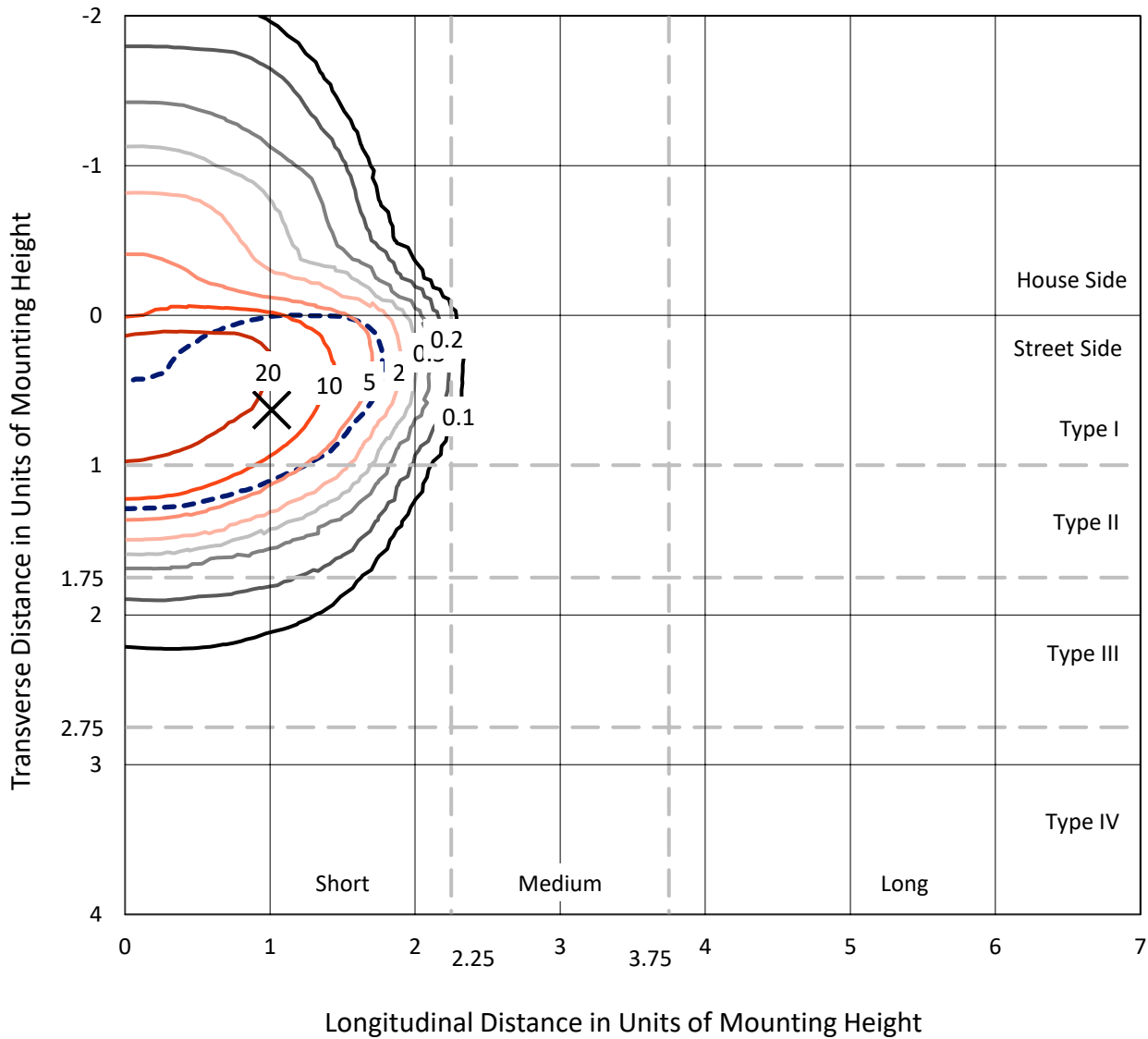
Lumens per Lamp: N/A  
Luminaire Lumens: 7707.8 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

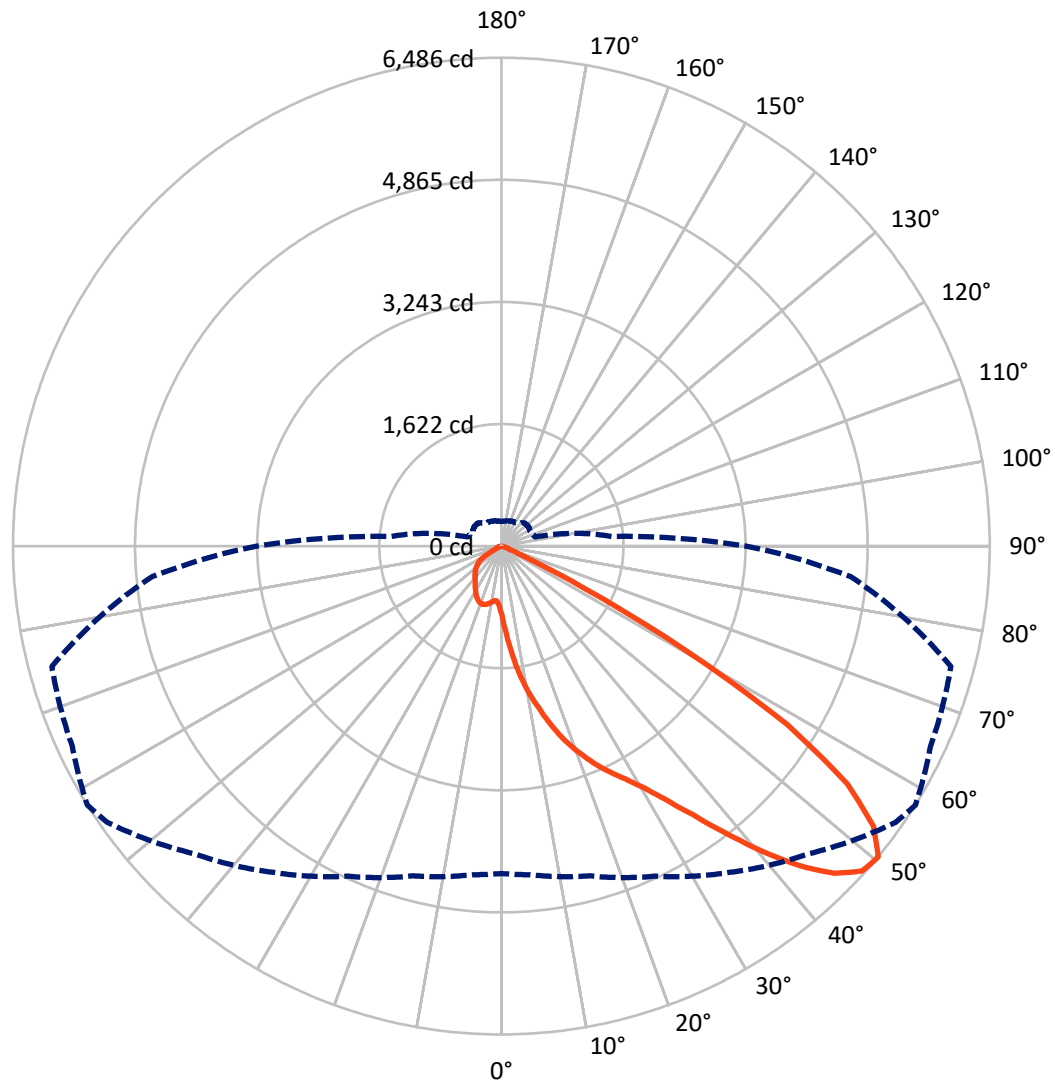
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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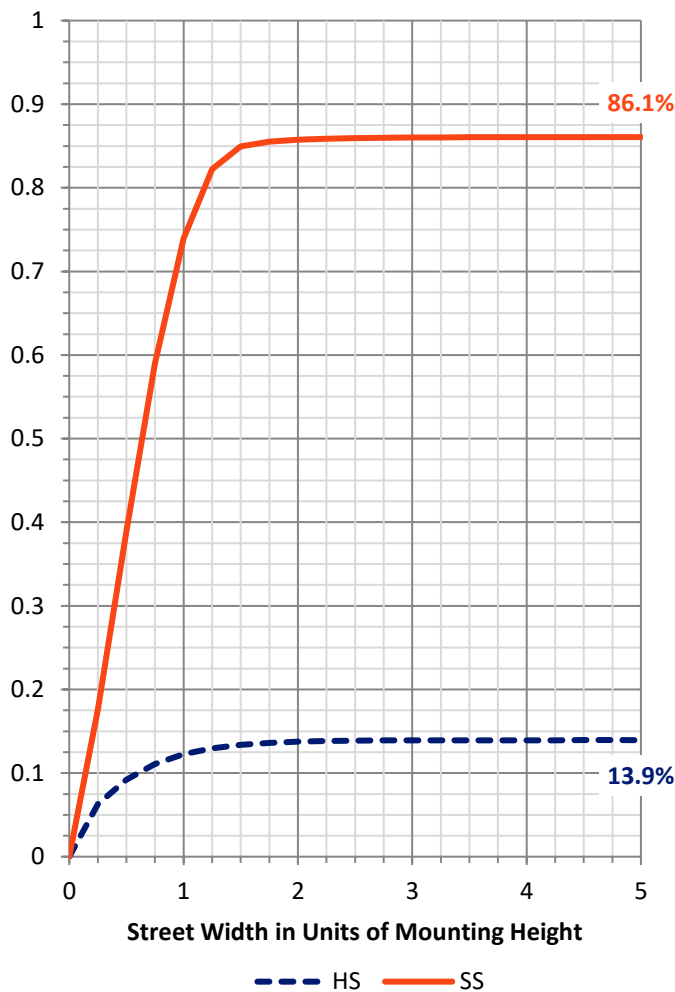
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1079.6	0.0	1079.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	6628.2	0.0	6628.2
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	7707.8	0.0	7707.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.1	1.5
10°-20°	451.5	5.9
20°-30°	913.7	11.9
30°-40°	1616.4	21.0
40°-50°	2356.4	30.6
50°-60°	1888.7	24.5
60°-70°	340.3	4.4
70°-80°	26.8	0.3
80°-90°	0.0	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°	7707.8	100.0
0°-180°	7707.8	100.0

**Coefficient of Utilization**



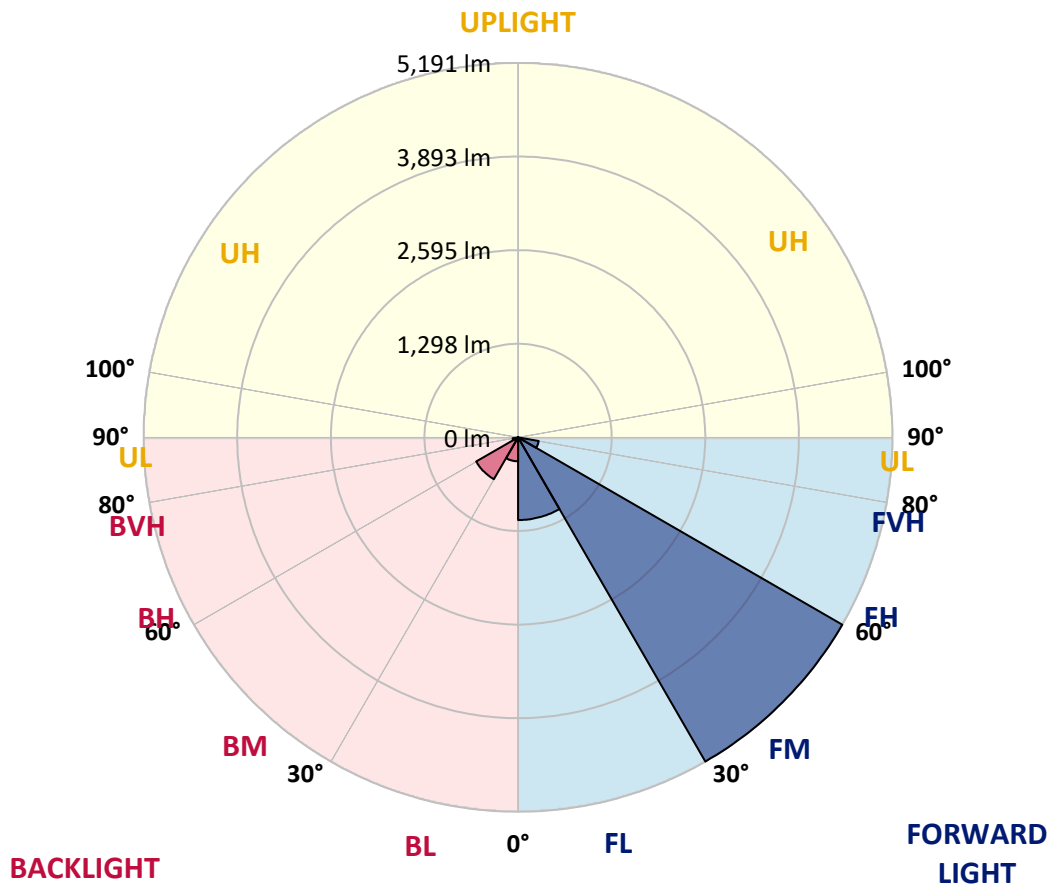
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1146.9	14.9			
FM (30°-60°)	5191.0	67.3			
FH (60°-80°)	290.4	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	332.4	4.3	B1/500		
BM (30°-60°)	670.5	8.7	B1/1000		
BH (60°-80°)	76.7	1.0	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	920.7	920.7	920.7	920.7	920.7	920.7	920.7	920.7	920.7	920.7	920.7
2.5°	1362.5	1341.0	1328.7	1318.8	1275.1	1205.9	1160.5	1136.6	1097.1	1030.3	972.6
5°	1777.9	1762.2	1733.4	1713.6	1657.6	1559.5	1458.1	1417.7	1327.9	1177.0	1041.8
7.5°	2053.2	2041.7	2030.9	2004.6	1951.8	1862.8	1750.7	1708.7	1570.2	1355.9	1134.2
10°	2265.0	2256.0	2243.6	2242.8	2201.6	2121.6	2012.0	1968.3	1818.3	1550.4	1243.0
12.5°	2451.3	2443.9	2441.4	2464.5	2438.1	2378.8	2260.1	2205.7	2046.6	1749.1	1363.3
15°	2579.1	2577.4	2588.1	2633.5	2648.3	2621.1	2521.4	2462.8	2279.9	1948.5	1496.0
17.5°	2637.6	2642.5	2663.1	2741.4	2807.4	2830.5	2753.8	2704.4	2511.5	2150.5	1637.8
20°	2737.3	2735.7	2748.0	2822.2	2903.0	2985.4	2962.3	2920.3	2745.6	2363.9	1795.2
22.5°	3018.4	2994.5	2968.1	2979.7	3008.5	3104.9	3147.8	3126.4	2987.1	2583.2	1957.6
25°	3450.3	3425.6	3340.7	3258.2	3203.8	3247.5	3306.1	3316.8	3226.9	2808.2	2127.4
27.5°	3908.6	3886.3	3790.7	3667.1	3511.3	3435.5	3479.1	3500.6	3462.7	3076.1	2307.9
30°	4338.0	4308.3	4203.7	4050.3	3869.8	3753.6	3704.2	3719.0	3741.3	3393.4	2519.7
32.5°	4710.6	4688.3	4563.0	4401.5	4227.6	4106.4	3991.0	4015.7	4070.1	3781.6	2790.9
35°	5026.3	5014.7	4882.0	4721.3	4537.5	4475.7	4376.7	4381.7	4436.1	4250.6	3121.4
37.5°	5300.7	5280.9	5160.6	5011.4	4865.5	4855.6	4828.4	4830.9	4858.9	4797.1	3501.4
40°	5473.8	5455.7	5370.0	5277.7	5173.8	5175.4	5316.4	5327.1	5295.0	5333.7	3902.8
42.5°	5538.9	5525.7	5479.6	5480.4	5469.7	5518.3	5782.9	5802.7	5687.3	5754.9	4245.7
45°	5426.0	5420.2	5423.5	5542.2	5670.8	5820.8	6164.5	6199.2	6036.0	6034.3	4513.6
47.5°	5061.7	5050.2	5146.6	5348.5	5646.1	5937.9	6395.3	6448.9	6279.9	6194.2	4681.7
50°	4347.9	4380.9	4533.4	4836.7	5289.2	5777.1	6392.9	6486.0	6289.0	6180.2	4653.7
52.5°	3149.4	3142.9	3476.7	3893.7	4444.3	5262.8	6053.3	6189.3	6068.9	6042.6	4591.1
55°	1713.6	1773.8	1998.8	2551.0	3238.5	4289.4	5277.7	5574.4	5713.7	5992.3	4704.0
57.5°	629.7	656.1	797.0	1187.7	1714.4	2667.3	4031.4	4479.0	4909.2	5852.2	4685.0
60°	253.9	258.8	314.9	436.9	720.4	1357.5	2418.3	2815.6	3221.2	4479.8	3595.4
62.5°	184.6	191.2	213.5	255.5	364.3	593.5	1042.7	1212.5	1325.4	2218.9	1771.3
65°	149.2	154.1	172.3	191.2	240.7	319.0	336.3	323.9	322.3	573.7	406.4
67.5°	123.6	128.6	141.8	155.0	173.1	159.1	115.4	121.2	98.9	98.1	80.0
70°	90.7	96.4	109.6	123.6	103.9	42.9	66.8	98.9	75.0	62.6	61.0
72.5°	68.4	72.5	84.9	80.8	30.5	16.5	44.5	71.7	57.7	46.2	45.3
75°	51.1	53.6	42.9	13.2	3.3	4.1	16.5	29.7	32.1	26.4	26.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.5	3.3	4.1	4.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	920.7	920.7	920.7	920.7	920.7	920.7	920.7	920.7	920.7	920.7	920.7
2.5°	939.6	905.0	855.6	814.4	783.0	752.5	729.5	706.4	705.6	694.0	691.5
5°	979.2	916.6	825.9	760.8	721.2	697.3	680.8	672.6	668.5	664.3	662.7
7.5°	1036.1	946.2	820.9	751.7	718.7	703.1	691.5	686.6	684.1	680.8	680.0
10°	1106.1	989.1	839.1	769.0	740.2	725.3	713.0	705.6	701.4	695.7	694.0
12.5°	1190.2	1041.8	867.9	797.9	767.4	747.6	731.1	720.4	714.6	707.2	705.6
15°	1280.9	1098.7	900.1	824.2	788.0	762.4	741.8	725.3	714.6	705.6	703.1
17.5°	1374.8	1156.4	928.9	842.4	797.9	767.4	737.7	715.4	702.3	690.7	687.4
20°	1480.3	1215.8	947.9	845.7	794.6	754.2	719.6	691.5	678.4	662.7	659.4
22.5°	1590.8	1271.0	956.1	838.3	776.4	729.5	692.4	663.5	644.6	628.1	623.1
25°	1697.9	1320.4	952.0	817.7	749.2	694.8	656.9	627.3	606.6	590.2	586.0
27.5°	1811.7	1361.7	937.2	787.2	712.1	656.9	620.7	595.1	576.1	558.0	553.9
30°	1939.5	1399.6	913.3	750.1	668.5	618.2	590.2	572.9	552.2	533.3	527.5
32.5°	2093.6	1433.4	878.6	705.6	629.7	584.4	568.7	555.5	531.6	511.9	507.7
35°	2270.0	1461.4	835.0	659.4	591.8	563.0	559.7	542.4	511.0	488.0	483.0
37.5°	2474.4	1488.6	783.0	614.1	563.8	553.1	553.9	524.2	486.3	458.3	455.0
40°	2694.5	1515.8	725.3	574.5	538.2	547.3	539.9	497.8	436.0	408.8	405.5
42.5°	2923.6	1545.5	666.8	537.4	516.8	525.0	514.3	445.1	400.6	386.6	384.9
45°	3130.5	1580.9	603.3	500.3	495.4	492.9	474.8	403.1	384.1	374.2	373.4
47.5°	3279.7	1575.1	535.8	464.9	472.3	464.1	408.8	383.3	367.6	354.4	351.1
50°	3252.5	1474.6	465.7	425.3	442.6	435.2	367.6	360.2	346.2	332.2	327.2
52.5°	3183.2	1337.8	404.7	383.3	410.5	393.2	339.6	332.2	319.8	301.7	295.9
55°	3220.3	1209.2	356.9	349.5	377.5	325.6	308.3	296.7	283.5	263.8	261.3
57.5°	3100.8	986.6	286.8	291.8	333.8	277.8	270.4	252.2	230.0	216.8	215.1
60°	2146.3	530.0	179.7	185.5	241.5	233.3	242.3	225.8	198.6	186.3	183.8
62.5°	985.8	212.7	98.1	94.0	126.9	158.3	207.7	206.1	172.3	152.5	150.8
65°	239.0	97.3	70.1	65.9	71.7	94.8	135.2	162.4	139.3	116.2	113.7
67.5°	77.5	79.1	64.3	60.2	63.5	70.9	80.8	89.8	89.0	81.6	80.0
70°	61.8	71.7	59.3	54.4	54.4	56.9	54.4	43.7	37.9	41.2	42.9
72.5°	46.2	54.4	47.0	42.0	40.4	39.6	33.8	24.7	17.3	15.7	14.8
75°	27.2	30.5	28.8	24.7	23.1	20.6	16.5	10.7	5.8	4.1	2.5
77.5°	4.9	5.8	6.6	4.9	4.1	3.3	2.5	0.8	0.0	0.0	0.0
80°	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)