

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: P640265

Luminaire Tested: GWS-SA5D-740-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-740-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

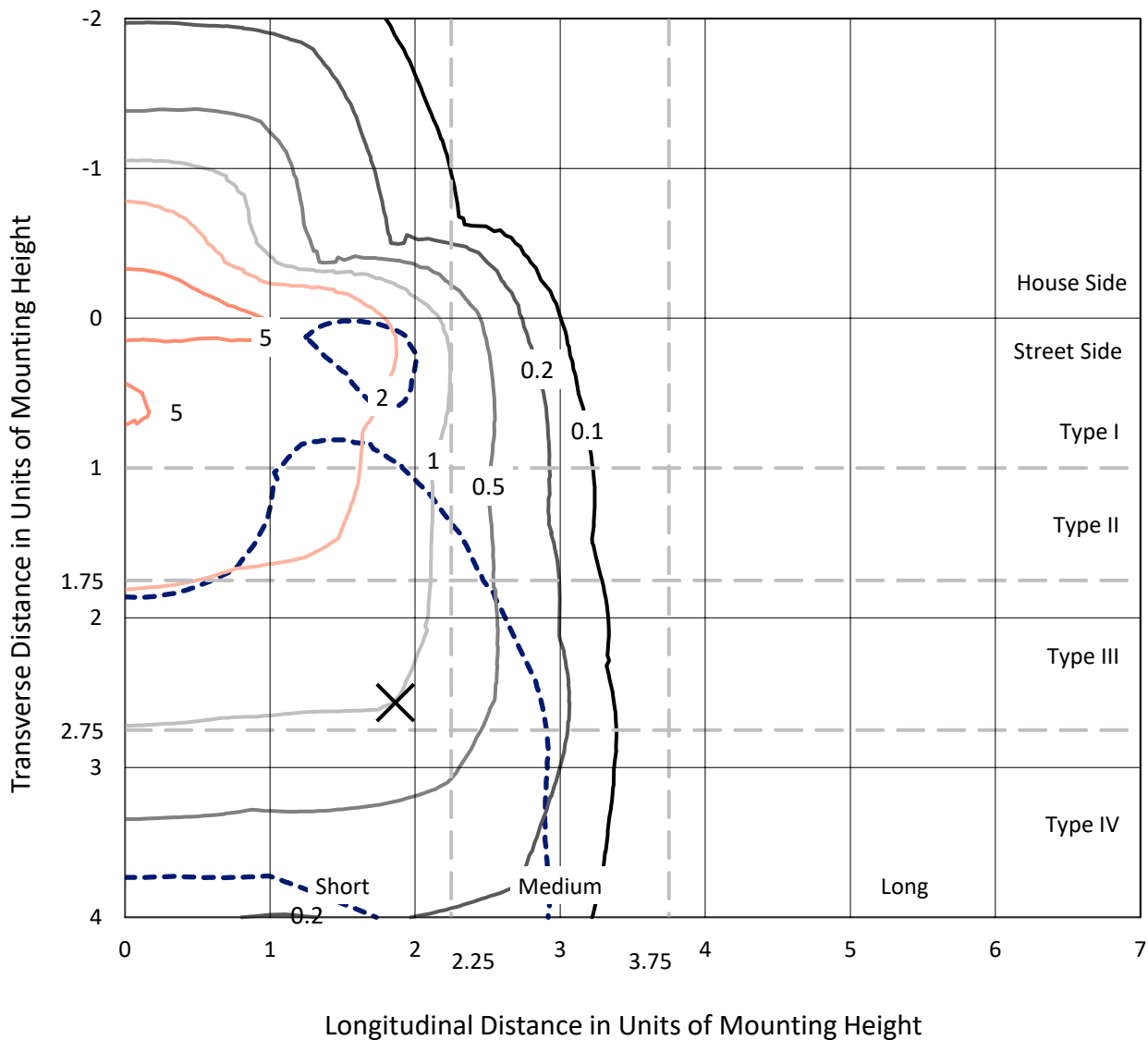
Lumens per Lamp: N/A  
Luminaire Lumens: 29016.9 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

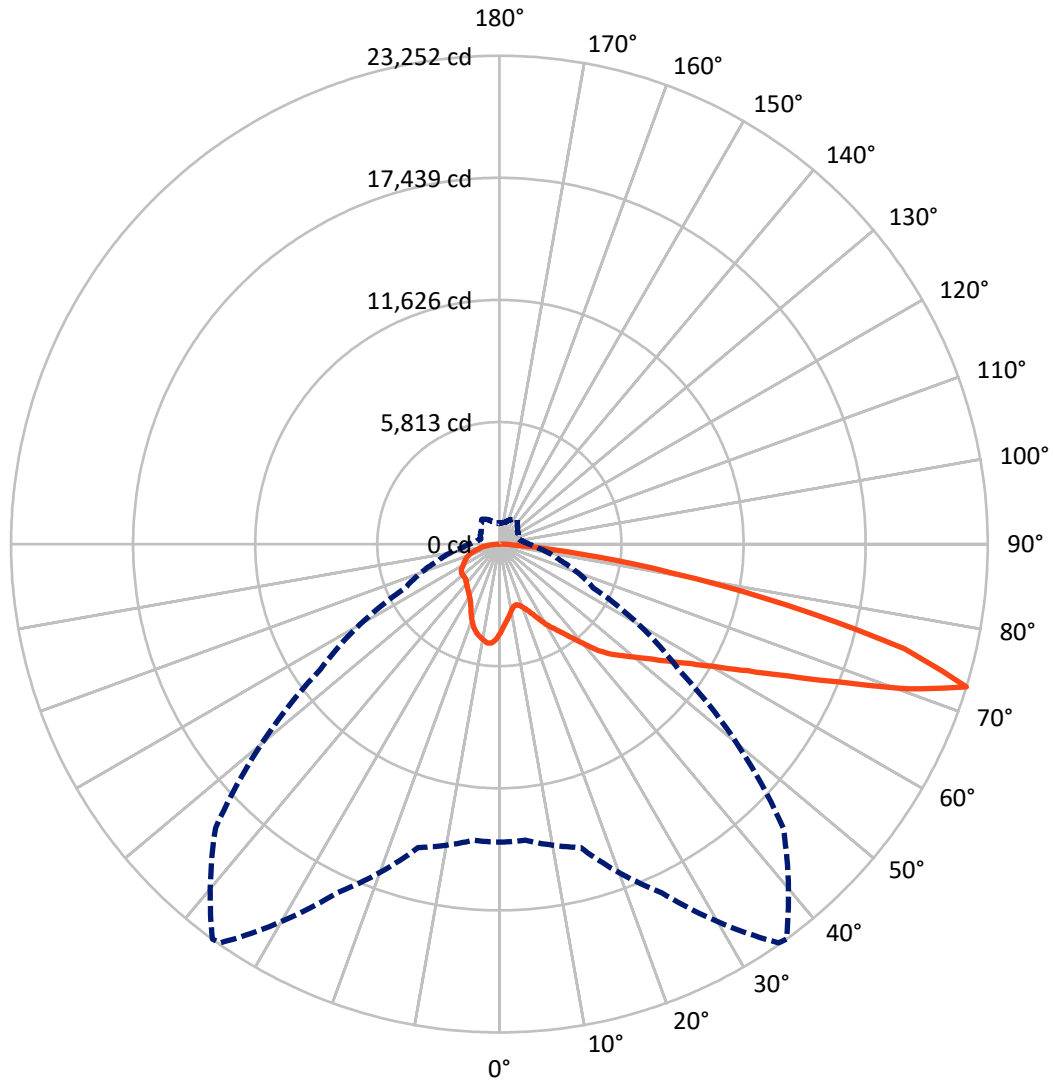
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6689.6	0.0	6689.6
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	22327.3	0.0	22327.3
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	29016.9	0.0	29016.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.0	1.4
10°-20°	1120.0	3.9
20°-30°	1854.8	6.4
30°-40°	2777.7	9.6
40°-50°	4052.5	14.0
50°-60°	5767.9	19.9
60°-70°	7287.3	25.1
70°-80°	5192.8	17.9
80°-90°	566.9	2.0
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°	29016.9	100.0
0°-180°	29016.9	100.0

**Coefficient of Utilization**



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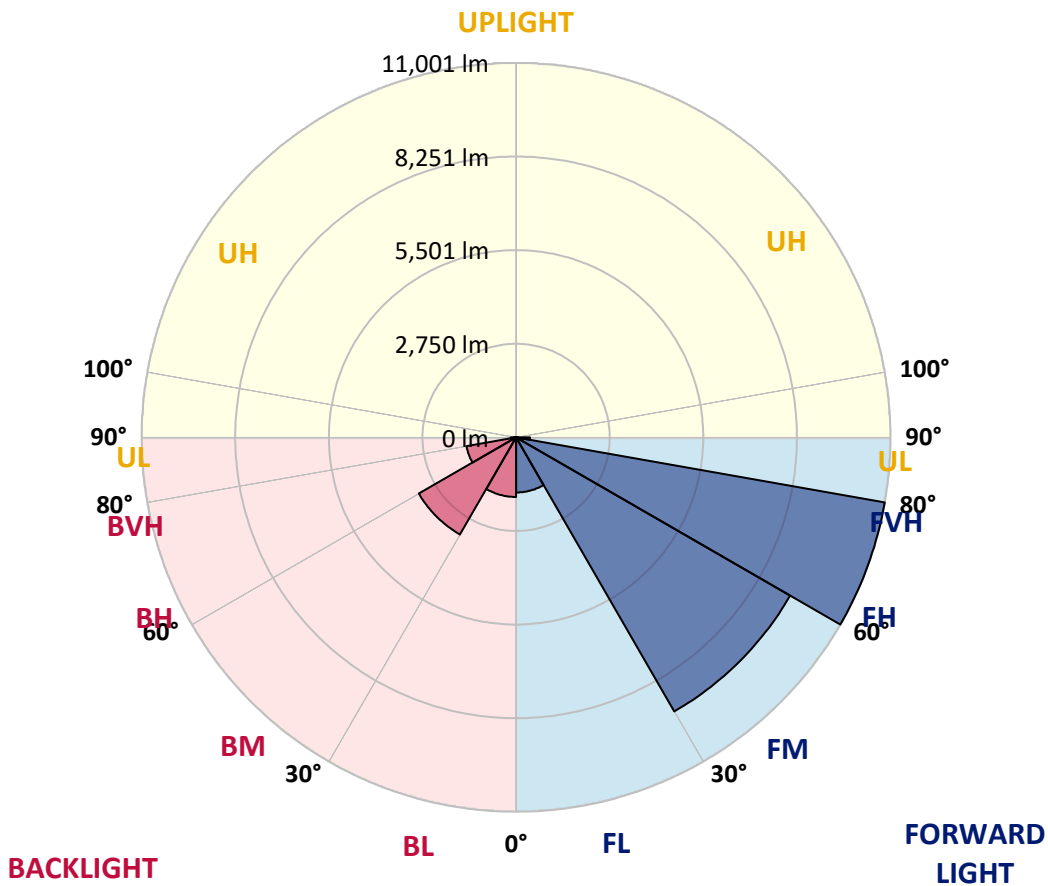
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1619.9	5.6			
FM (30°-60°)	9299.2	32.0			
FH (60°-80°)	11001.3	37.9			G4/12000
FVH (80°-90°)	406.9	1.4			G3/500
BL (0°-30°)	1751.8	6.0	B3/2500		
BM (30°-60°)	3298.9	11.4	B3/5000		
BH (60°-80°)	1478.9	5.1	B3/2500		G3/2500
BVH (80°-90°)	160.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8
2.5°	3874.2	3867.7	3854.8	3893.6	3932.3	3928.0	3981.9	4033.6	4089.5	4147.7	4225.2
5°	3564.1	3559.8	3549.0	3607.2	3665.3	3663.1	3751.4	3835.4	3949.6	4074.5	4229.5
7.5°	3254.0	3243.2	3258.3	3331.5	3413.3	3422.0	3542.6	3680.4	3846.2	4033.6	4253.2
10°	2980.5	2978.3	2984.8	3066.6	3189.4	3198.0	3353.0	3544.7	3764.4	4014.2	4307.1
12.5°	2909.4	2905.1	2887.9	2928.8	3021.4	3034.3	3204.4	3439.2	3708.4	4024.9	4380.3
15°	3025.7	3014.9	2954.6	2935.3	2980.5	2991.2	3135.5	3376.7	3676.1	4044.3	4472.9
17.5°	3226.0	3219.5	3105.4	3025.7	3055.9	3064.5	3172.1	3366.0	3667.5	4083.1	4587.0
20°	3518.9	3490.9	3312.1	3191.5	3191.5	3204.4	3269.1	3413.3	3678.2	4130.5	4716.2
22.5°	3906.5	3850.5	3598.5	3434.9	3391.8	3409.0	3437.0	3531.8	3723.4	4210.1	4877.7
25°	4341.5	4289.8	3990.5	3760.1	3699.8	3706.2	3682.5	3699.8	3822.5	4320.0	5078.0
27.5°	4804.5	4770.1	4451.3	4158.5	4063.7	4063.7	3979.7	3938.8	3960.3	4444.9	5302.0
30°	5218.0	5170.6	4901.4	4580.5	4455.6	4455.6	4296.3	4208.0	4156.3	4597.8	5601.3
32.5°	5435.5	5407.5	5228.8	4983.3	4830.4	4806.7	4668.8	4565.5	4444.9	4823.9	6006.2
35°	5719.8	5713.3	5605.6	5414.0	5220.1	5185.7	5090.9	5009.1	4800.2	5106.0	6544.6
37.5°	6077.3	6066.5	6049.3	5935.1	5702.5	5696.1	5612.1	5513.0	5241.7	5513.0	7197.1
40°	6477.8	6458.4	6436.9	6434.7	6294.8	6271.1	6264.6	6152.6	5773.6	6004.0	7877.6
42.5°	7029.1	6962.3	6759.9	6850.4	6953.7	6932.2	7014.0	6846.1	6436.9	6587.6	8521.5
45°	7707.5	7543.8	7143.2	7169.1	7429.7	7472.7	7757.0	7716.1	7166.9	7261.7	9199.9
47.5°	8114.5	7972.4	7599.8	7578.3	7903.4	7957.3	8575.3	8652.9	7953.0	8073.6	10037.6
50°	8448.3	8349.2	8043.4	8073.6	8418.1	8472.0	9387.2	9553.0	8693.8	8904.8	11011.0
52.5°	8851.0	8708.9	8472.0	8614.1	9036.2	9100.8	10289.5	10468.3	9361.4	9817.9	12018.8
55°	9077.1	9019.0	9023.3	9240.8	9770.5	9858.8	11234.9	11204.8	9973.0	10599.7	12776.9
57.5°	9598.3	9576.7	9774.9	9856.7	10627.7	10741.8	12180.3	11921.9	10528.6	11204.8	13140.8
60°	10517.8	10464.0	10636.3	10761.2	11687.2	11848.7	13235.6	12624.0	10905.5	11654.9	13018.1
62.5°	11809.9	11743.2	11749.6	11947.8	13106.4	13276.5	14409.2	13209.7	11021.7	11723.8	12240.6
65°	13416.5	13319.6	13209.7	13478.9	14990.7	15132.8	15686.3	13636.1	10743.9	11060.5	10616.9
67.5°	15111.3	15031.6	14902.4	15466.6	17430.6	17516.8	17118.4	13599.5	9863.1	9286.0	7446.9
70°	15210.4	15229.7	15841.3	17882.9	20615.7	20637.2	18472.9	12863.0	7987.4	6019.1	3710.5
72.5°	14189.6	14157.3	14954.1	18324.4	23178.4	23251.6	19112.5	10420.9	4935.9	3002.0	1740.0
75°	11525.7	11581.7	12419.4	16033.0	19866.3	19930.9	15580.8	6144.0	2345.2	1468.7	1113.4
77.5°	4961.7	5274.0	6925.7	11295.2	14228.3	14028.1	8030.5	2489.5	1251.2	1046.6	852.8
80°	1432.1	1554.8	2467.9	5370.9	8525.8	8375.1	3178.6	932.5	872.2	786.0	611.6
82.5°	463.0	512.5	904.5	2138.5	3820.4	3816.0	1206.0	551.3	570.7	534.1	394.1
85°	129.2	148.6	277.8	648.2	1182.3	1158.6	348.9	260.6	303.6	308.0	196.0
87.5°	0.0	0.0	2.2	4.3	4.3	4.3	8.6	38.8	88.3	112.0	79.7
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°	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8	4246.8
2.5°	4272.6	4266.1	4354.4	4423.3	4487.9	4531.0	4543.9	4552.6	4569.8	4578.4	4569.8
5°	4302.7	4335.0	4481.5	4589.2	4675.3	4727.0	4729.1	4724.8	4737.8	4727.0	4720.5
7.5°	4367.4	4429.8	4615.0	4729.1	4785.1	4787.3	4735.6	4675.3	4645.2	4619.3	4610.7
10°	4453.5	4546.1	4748.5	4823.9	4806.7	4727.0	4612.9	4518.1	4464.3	4425.5	4416.9
12.5°	4571.9	4675.3	4867.0	4864.8	4757.1	4615.0	4481.5	4367.4	4289.8	4244.6	4229.5
15°	4683.9	4815.3	4953.1	4851.9	4681.8	4509.5	4337.2	4184.3	4080.9	4009.9	3996.9
17.5°	4821.7	4961.7	5015.6	4811.0	4587.0	4365.2	4134.8	3934.5	3794.5	3710.5	3704.1
20°	4981.1	5106.0	5045.7	4739.9	4464.3	4173.5	3861.3	3637.3	3486.6	3404.7	3411.2
22.5°	5166.3	5256.8	5054.3	4643.0	4294.1	3902.2	3553.3	3338.0	3236.7	3193.7	3195.8
25°	5364.4	5422.6	5039.3	4511.6	4033.6	3570.5	3236.7	3137.7	3129.1	3118.3	3122.6
27.5°	5599.2	5586.2	4994.0	4326.4	3682.5	3185.1	3014.9	3040.8	3075.2	3070.9	3075.2
30°	5913.6	5790.8	4935.9	4070.2	3264.7	2862.0	2883.6	2956.8	3002.0	3006.3	3019.2
32.5°	6273.2	6017.0	4843.3	3721.3	2866.3	2681.1	2760.8	2849.1	2903.0	2913.7	2930.9
35°	6701.8	6275.4	4679.6	3286.3	2579.9	2573.5	2646.7	2707.0	2765.1	2769.4	2769.4
37.5°	7194.9	6533.8	4419.0	2806.0	2403.3	2480.9	2549.8	2562.7	2577.8	2564.8	2571.3
40°	7647.2	6783.6	4048.6	2368.9	2259.0	2399.0	2457.2	2414.1	2366.7	2334.4	2340.9
42.5°	8026.2	6953.7	3557.6	2063.1	2112.6	2325.8	2371.0	2282.7	2190.1	2129.8	2138.5
45°	8452.6	7110.9	2980.5	1856.3	1987.7	2274.1	2304.3	2190.1	2071.7	1981.2	1968.3
47.5°	9040.5	7431.8	2467.9	1712.1	1899.4	2246.1	2295.7	2140.6	1985.6	1849.9	1834.8
50°	9766.2	7886.2	2039.4	1617.3	1858.5	2231.1	2293.5	2086.8	1901.6	1742.2	1731.4
52.5°	10558.7	8329.8	1722.8	1544.1	1817.6	2185.8	2282.7	2026.5	1813.3	1641.0	1628.1
55°	11086.4	8504.3	1509.6	1475.2	1750.8	2114.8	2239.7	1968.3	1679.8	1522.5	1503.2
57.5°	11241.4	8280.3	1361.0	1412.7	1664.7	2015.7	2157.8	1845.6	1597.9	1473.0	1457.9
60°	10974.4	7716.1	1268.4	1361.0	1569.9	1888.6	2015.7	1774.5	1533.3	1421.3	1410.6
62.5°	10220.6	6846.1	1197.4	1307.2	1473.0	1755.1	1925.3	1688.4	1462.2	1373.9	1358.9
65°	8704.6	5614.2	1139.2	1251.2	1380.4	1628.1	1826.2	1602.2	1384.7	1318.0	1300.7
67.5°	6088.0	3943.1	1076.8	1184.4	1287.8	1505.3	1722.8	1522.5	1305.0	1255.5	1238.3
70°	2976.2	2091.1	1001.4	1106.9	1188.7	1380.4	1619.5	1425.6	1199.5	1171.5	1147.8
72.5°	1417.0	1169.4	913.1	1001.4	1053.1	1214.6	1447.2	1285.7	1074.6	1014.3	973.4
75°	949.7	831.3	796.8	876.5	889.4	1018.6	1240.4	1109.1	947.6	878.6	844.2
77.5°	719.3	635.3	669.7	740.8	715.0	837.7	1020.8	988.5	854.9	792.5	775.3
80°	506.1	463.0	531.9	575.0	555.6	712.8	919.6	846.3	704.2	635.3	622.4
82.5°	318.7	310.1	391.9	398.4	404.9	564.2	755.9	665.4	547.0	450.1	417.8
85°	159.4	176.6	234.7	234.7	232.6	290.7	430.7	374.7	295.0	234.7	228.3
87.5°	53.8	75.4	101.2	81.8	62.5	49.5	56.0	68.9	73.2	71.1	71.1
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)