

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P382622

Luminaire Tested: **GLEON-SA0A-735-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0A-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30515.6 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

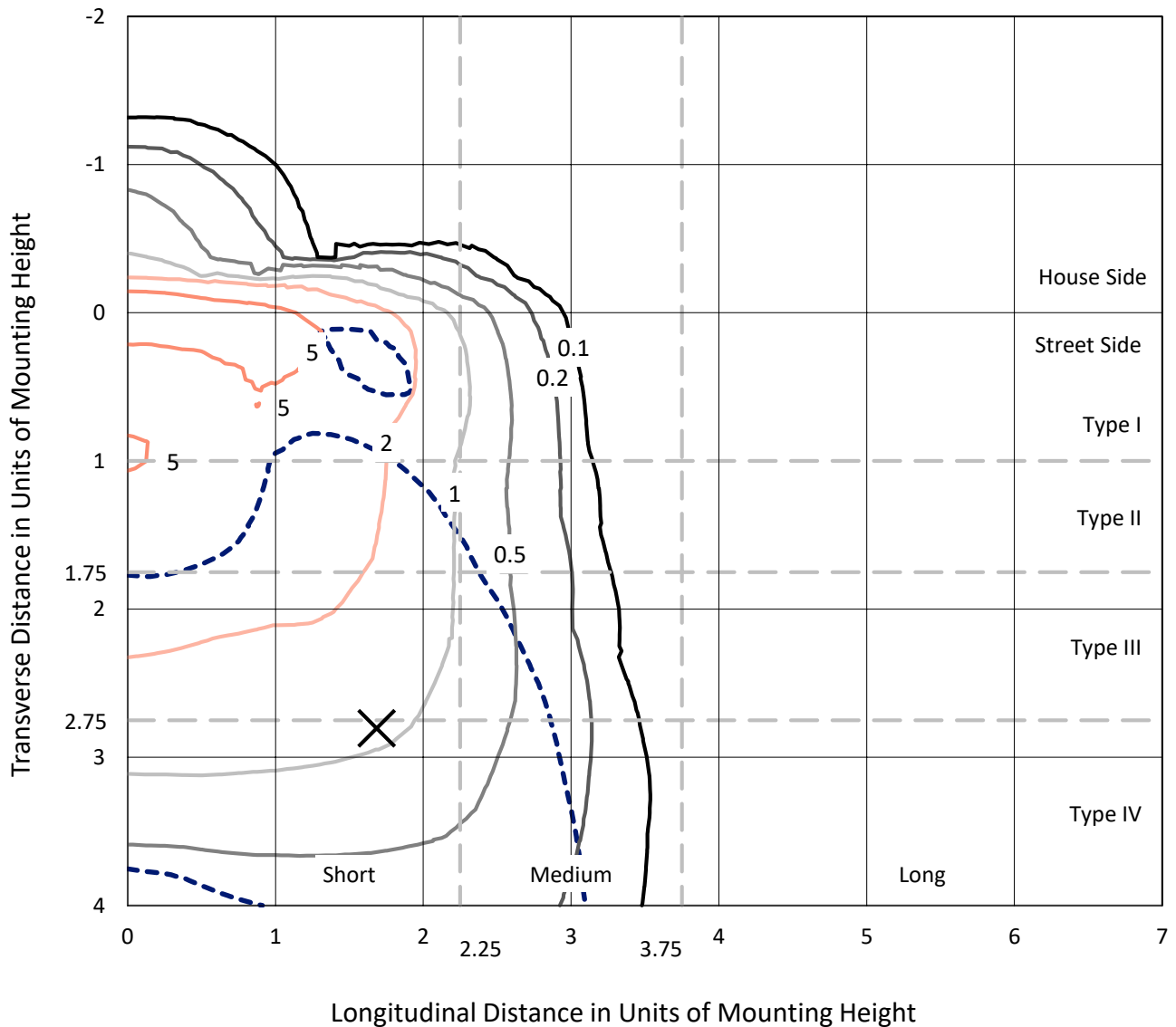
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

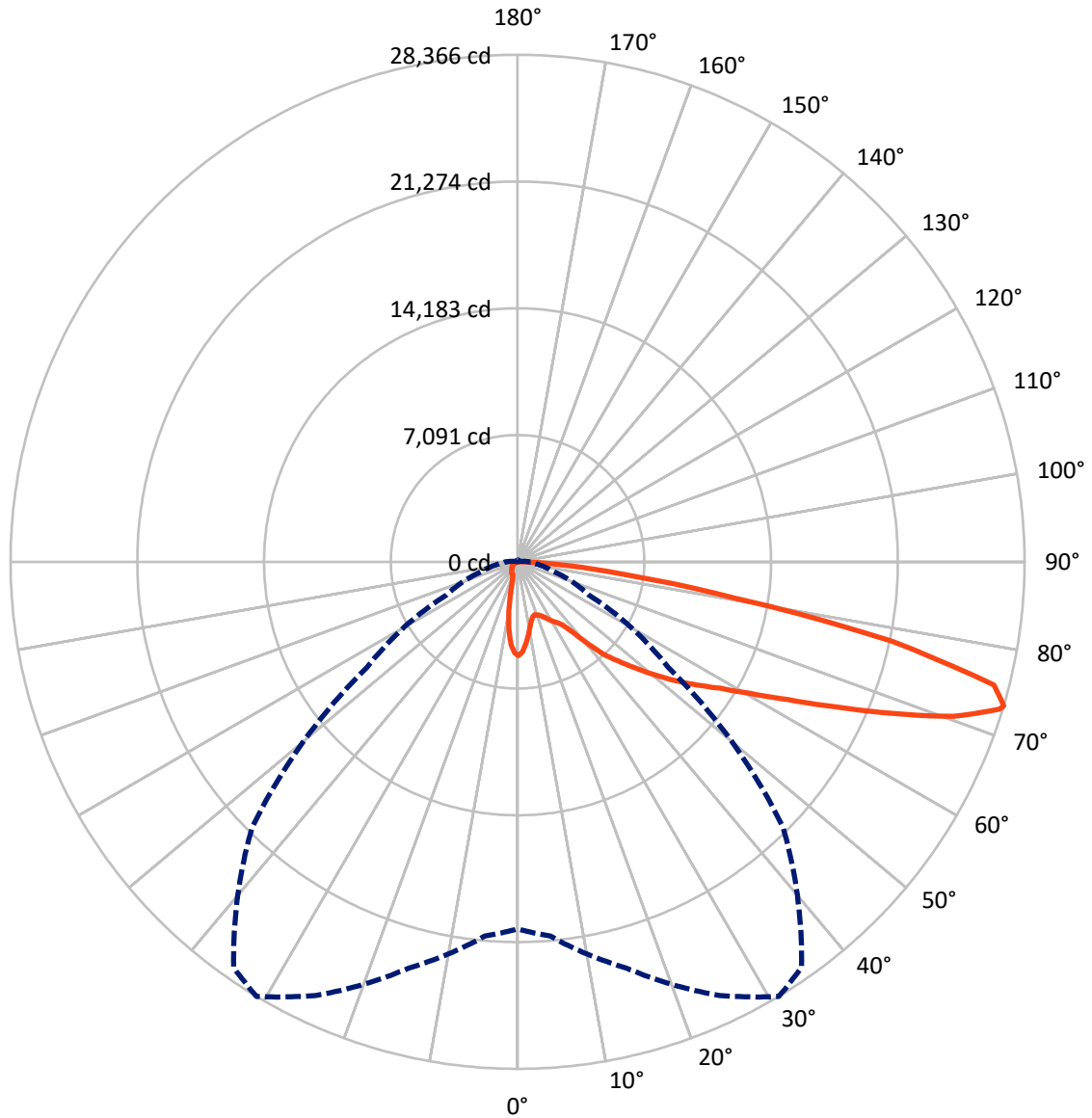
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2781.6	0.0	2781.6
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	27734.0	0.0	27734.0
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	30515.6	0.0	30515.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.3	1.4
10°-20°	945.2	3.1
20°-30°	1416.2	4.6
30°-40°	2253.2	7.4
40°-50°	4023.5	13.2
50°-60°	6243.4	20.5
60°-70°	8299.7	27.2
70°-80°	6243.1	20.5
80°-90°	656.0	2.1
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°	30515.6	100.0
0°-180°	30515.6	100.0

**Coefficient of Utilization**



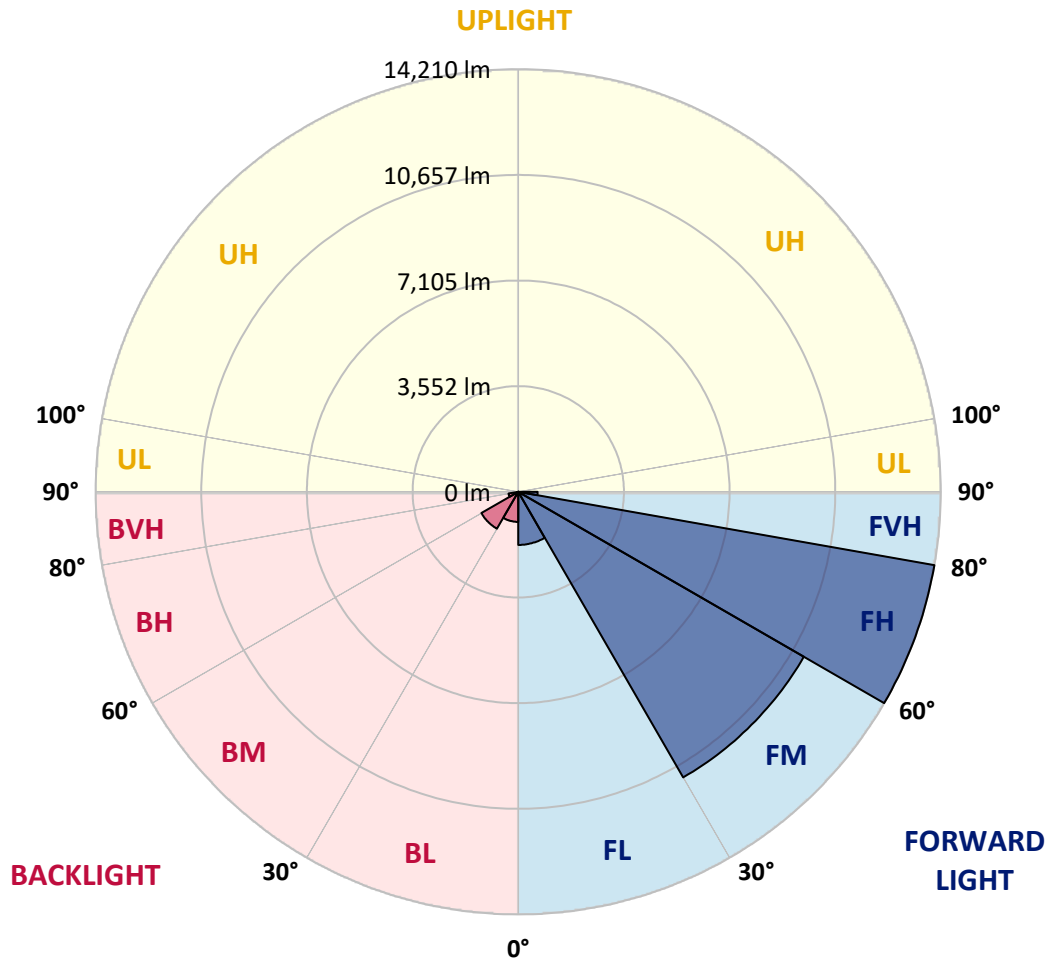
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1785.2	5.9			
FM (30°-60°)	11088.3	36.3			
FH (60°-80°)	14210.0	46.6			G5
FVH (80°-90°)	650.5	2.1			G4/750
BL (0°-30°)	1011.5	3.3	B3/2500		
BM (30°-60°)	1431.8	4.7	B2/2500		
BH (60°-80°)	332.8	1.1	B1/500		G1/500
BVH (80°-90°)	5.5	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5250.3	5250.3	5250.3	5250.3	5250.3	5250.3	5250.3	5250.3	5250.3	5250.3	5250.3
2.5°	4975.5	4996.4	5018.8	5023.3	5060.6	5062.1	5115.9	5156.2	5196.5	5235.4	5248.8
5°	4464.8	4499.2	4539.5	4579.8	4658.9	4690.3	4821.7	4956.1	5084.6	5207.0	5266.7
7.5°	3919.8	3958.6	4015.3	4115.4	4203.5	4264.7	4472.3	4711.2	4950.2	5175.6	5305.5
10°	3422.5	3458.4	3518.1	3624.1	3760.0	3843.7	4122.8	4454.4	4805.3	5147.3	5363.8
12.5°	3106.0	3125.3	3158.2	3271.7	3394.2	3488.3	3816.7	4227.4	4685.9	5145.8	5457.8
15°	3047.7	3053.7	3026.8	3077.6	3173.1	3264.2	3597.3	4043.8	4594.8	5169.6	5580.2
17.5°	3140.3	3137.4	3047.7	3041.8	3117.9	3192.6	3489.8	3916.8	4530.5	5224.9	5738.6
20°	3280.6	3270.2	3114.9	3086.6	3167.2	3237.4	3482.3	3869.0	4506.6	5317.5	5931.2
22.5°	3467.3	3449.4	3206.0	3176.1	3262.7	3336.0	3574.8	3915.3	4527.5	5441.4	6155.2
25°	3698.8	3671.9	3362.8	3329.9	3418.0	3491.3	3740.6	4048.2	4590.3	5592.3	6439.0
27.5°	3960.1	3921.3	3613.7	3528.5	3628.6	3704.8	3961.6	4251.3	4688.9	5752.0	6786.8
30°	4206.5	4155.7	3877.9	3737.6	3860.1	3945.2	4200.5	4493.2	4847.1	5998.4	7263.2
32.5°	4454.4	4397.6	4113.9	3946.7	4057.2	4149.8	4446.9	4826.2	5144.3	6374.7	7896.4
35°	5024.8	4965.1	4617.1	4340.9	4339.4	4391.7	4791.9	5281.6	5537.0	6898.9	8651.9
37.5°	5984.9	5950.6	5619.1	5095.0	4954.6	4896.4	5262.2	5825.2	6101.5	7620.1	9504.6
40°	7036.2	7006.4	6634.5	6159.7	5946.2	5802.8	5937.2	6582.2	6898.9	8501.1	10375.1
42.5°	8223.3	8081.5	7418.5	7276.6	7085.4	6976.5	6855.5	7515.5	7878.4	9459.8	11238.2
45°	9301.5	9062.6	8202.5	7987.4	7944.1	7971.0	8038.1	8769.9	8980.4	10599.1	12098.4
47.5°	9943.6	9755.4	9095.4	8889.3	8877.4	9055.1	9562.8	10186.9	10077.9	11592.1	12855.5
50°	10554.3	10384.1	9836.0	9886.8	9942.0	10184.0	11293.4	11644.3	11079.9	12492.5	13549.7
52.5°	11048.6	10788.7	10502.1	10787.2	11059.1	11448.8	13079.4	12952.5	11790.7	13209.3	14144.1
55°	11333.8	11215.8	11354.7	11641.4	12152.1	12785.2	14765.3	14041.0	12310.4	13863.4	14539.8
57.5°	12379.1	12147.7	12423.9	12671.7	13337.7	14223.2	16209.3	14851.8	12685.2	14268.0	14630.9
60°	13643.8	13457.2	13620.0	14032.1	14931.0	15971.8	17559.2	15513.4	12880.8	14527.9	14394.9
62.5°	15656.8	15410.4	15308.9	15770.3	16961.9	18098.2	18583.5	15971.8	12837.5	14412.9	13585.6
65°	18353.5	18098.2	17644.3	18062.4	19578.1	20379.9	19728.9	16068.9	12538.8	13482.6	11539.8
67.5°	21116.1	20930.9	20542.7	21247.5	22615.3	22873.7	20939.9	15833.0	11577.2	10932.1	8153.2
70°	22940.9	22861.7	23114.0	24673.1	25893.0	25818.3	22050.8	14565.2	9023.7	6722.6	4033.3
72.5°	21625.3	22004.6	23868.1	26694.9	28185.2	27575.9	21480.5	11184.4	5157.7	2586.3	1166.2
73°	20535.2	21020.6	23529.2	26771.0	28365.8	27698.4	21001.1	10266.1	4396.2	2041.3	884.0
75°	14285.9	14881.8	19479.5	24932.9	27520.6	26390.3	17505.4	6283.6	2036.8	904.9	356.9
77.5°	6936.1	7376.6	10726.0	18014.6	21402.8	20618.9	10897.8	2341.4	919.8	565.9	164.2
80°	2589.3	2878.9	4656.0	9168.6	12368.6	12692.6	4793.4	885.5	612.2	455.4	83.7
82.5°	678.0	755.6	1717.2	4088.6	6338.9	6634.5	1511.2	446.5	448.0	374.8	50.8
85°	216.5	247.9	536.1	1835.2	2986.5	2622.1	394.2	216.5	325.5	279.3	28.4
87.5°	26.9	34.4	170.2	431.6	658.5	365.8	61.2	64.2	138.9	155.3	16.4
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°	5250.3	5250.3	5250.3	5250.3	5250.3	5250.3	5250.3	5250.3	5250.3	5250.3	5250.3
2.5°	5262.2	5254.8	5256.3	5217.4	5192.1	5141.3	5089.0	5065.1	5039.8	5029.2	5039.8
5°	5289.1	5275.6	5236.9	5117.4	4990.5	4826.2	4672.4	4555.9	4409.6	4369.2	4411.1
7.5°	5330.9	5304.0	5190.6	4947.2	4664.9	4351.4	3998.9	3742.1	3531.5	3395.7	3445.0
10°	5392.2	5341.4	5112.9	4699.3	4194.6	3639.1	3138.8	2749.1	2472.8	2359.3	2354.9
12.5°	5495.2	5399.6	5017.3	4376.7	3619.6	2878.9	2223.4	1800.9	1576.8	1432.1	1429.1
15°	5608.7	5468.3	4896.4	3990.0	2950.7	2062.2	1432.1	1111.0	966.1	919.8	913.8
17.5°	5747.6	5547.5	4739.6	3513.6	2250.3	1366.3	934.8	842.2	836.3	831.8	831.8
20°	5922.2	5641.5	4538.0	2968.6	1596.3	912.4	794.4	800.4	803.4	797.4	798.9
22.5°	6125.3	5737.1	4297.6	2383.3	1079.7	763.0	760.0	767.5	770.5	767.5	769.0
25°	6361.3	5847.6	4004.9	1769.5	779.5	724.2	731.7	742.2	749.6	749.6	749.6
27.5°	6654.0	5981.9	3652.5	1235.0	673.4	683.9	704.8	724.2	734.7	737.7	737.7
30°	7034.7	6149.2	3229.9	846.7	612.2	630.2	668.9	706.3	725.7	728.7	730.2
32.5°	7515.5	6337.4	2740.1	625.6	560.0	573.4	615.2	678.0	715.2	721.2	721.2
35°	8066.6	6555.4	2213.0	545.0	522.6	527.2	560.0	631.7	697.4	713.8	715.2
37.5°	8669.8	6770.4	1682.9	509.2	491.3	491.3	515.1	576.4	654.0	704.8	710.8
40°	9232.8	6900.3	1179.7	480.9	462.9	462.9	483.8	528.7	601.8	678.0	694.4
42.5°	9752.5	6945.2	821.3	453.9	436.1	440.5	458.4	494.3	549.5	625.6	640.6
45°	10287.0	6937.6	598.8	422.5	409.1	422.5	436.1	462.9	503.2	546.5	549.5
47.5°	10690.2	6874.9	474.8	392.7	383.8	401.7	413.6	431.6	453.9	451.0	451.0
50°	11068.0	6722.6	382.3	352.4	358.4	379.3	385.3	391.2	392.7	364.3	361.3
52.5°	11354.7	6485.2	306.1	309.1	333.0	353.9	347.9	339.0	324.0	289.7	283.7
55°	11450.3	6028.2	240.4	255.3	295.7	322.5	300.1	280.8	252.4	223.9	218.0
57.5°	11277.0	5438.5	195.6	198.6	249.4	271.7	246.4	223.9	192.6	168.7	164.2
60°	10909.7	4782.8	161.3	149.3	192.6	212.0	195.6	173.2	144.9	127.0	125.5
62.5°	10181.0	4084.1	132.9	116.4	146.3	162.7	152.3	135.9	112.0	100.0	98.6
65°	8649.0	3267.2	107.5	94.1	113.5	127.0	117.9	106.0	88.1	79.2	77.7
67.5°	6037.3	2208.5	88.1	77.7	89.6	100.0	92.6	86.6	70.1	68.7	70.1
70°	2911.8	1064.7	73.1	62.7	70.1	77.7	74.6	70.1	67.2	77.7	89.6
72.5°	834.8	356.9	58.2	52.3	56.7	61.2	64.2	62.7	73.1	94.1	109.0
73°	642.1	288.2	55.2	49.3	53.8	59.7	62.7	61.2	74.6	95.6	109.0
75°	274.7	138.9	41.8	40.3	44.8	52.3	55.2	55.2	74.6	97.1	104.5
77.5°	123.9	74.6	26.9	31.4	38.8	41.8	46.3	46.3	59.7	74.6	74.6
80°	70.1	40.3	20.9	23.8	28.4	28.4	28.4	25.4	26.9	29.9	32.9
82.5°	44.8	26.9	16.4	19.4	17.9	14.9	11.9	11.9	10.4	11.9	14.9
85°	25.4	14.9	14.9	11.9	7.5	6.0	7.5	6.0	1.5	0.0	1.5
87.5°	14.9	8.9	4.5	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)