

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: STREETWORKS

Report Number: P322421

Luminaire Tested: **GAN-SA7D-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31780 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 448
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

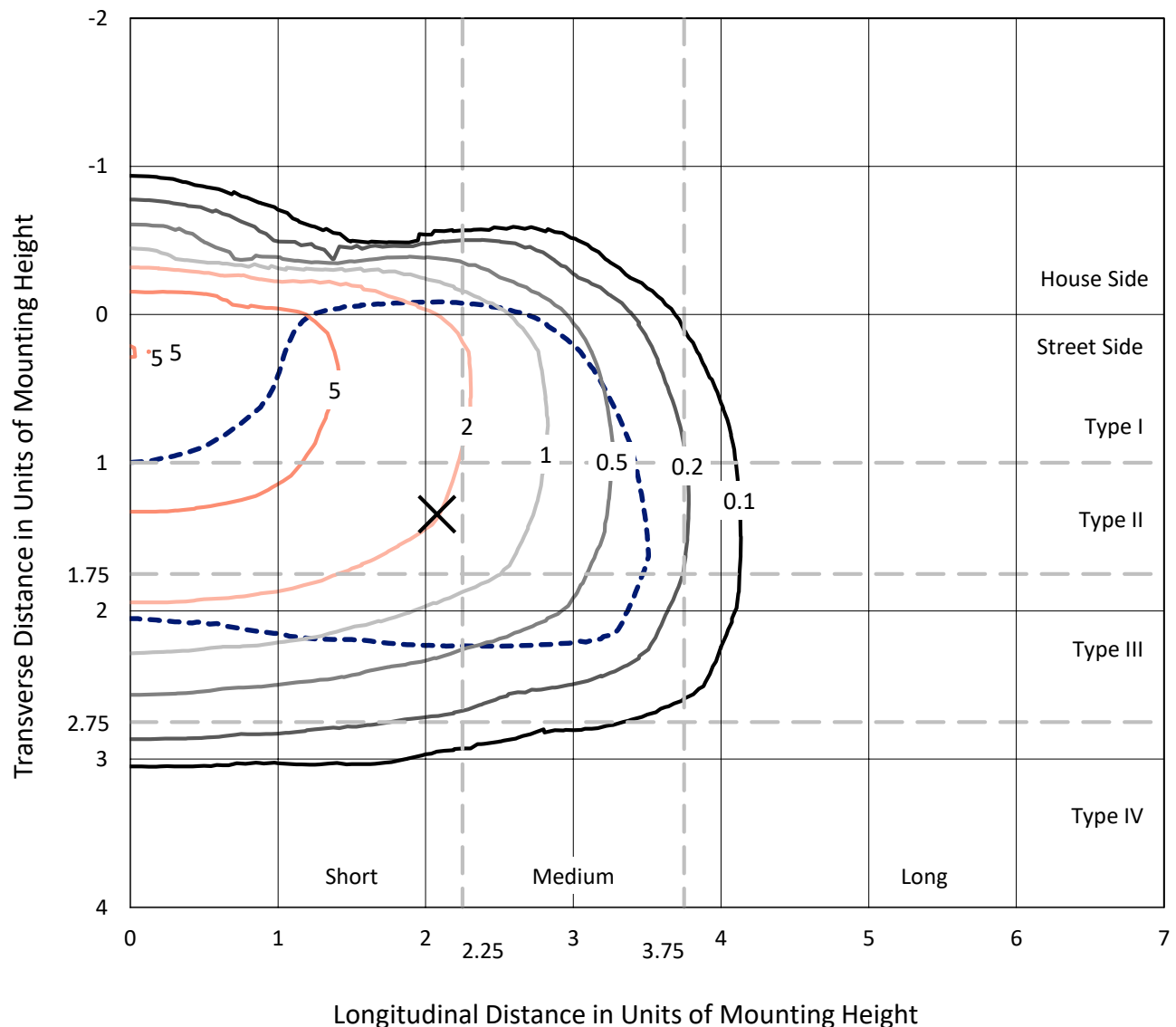


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Iso-Footcandle Lines of Horizontal Illumination

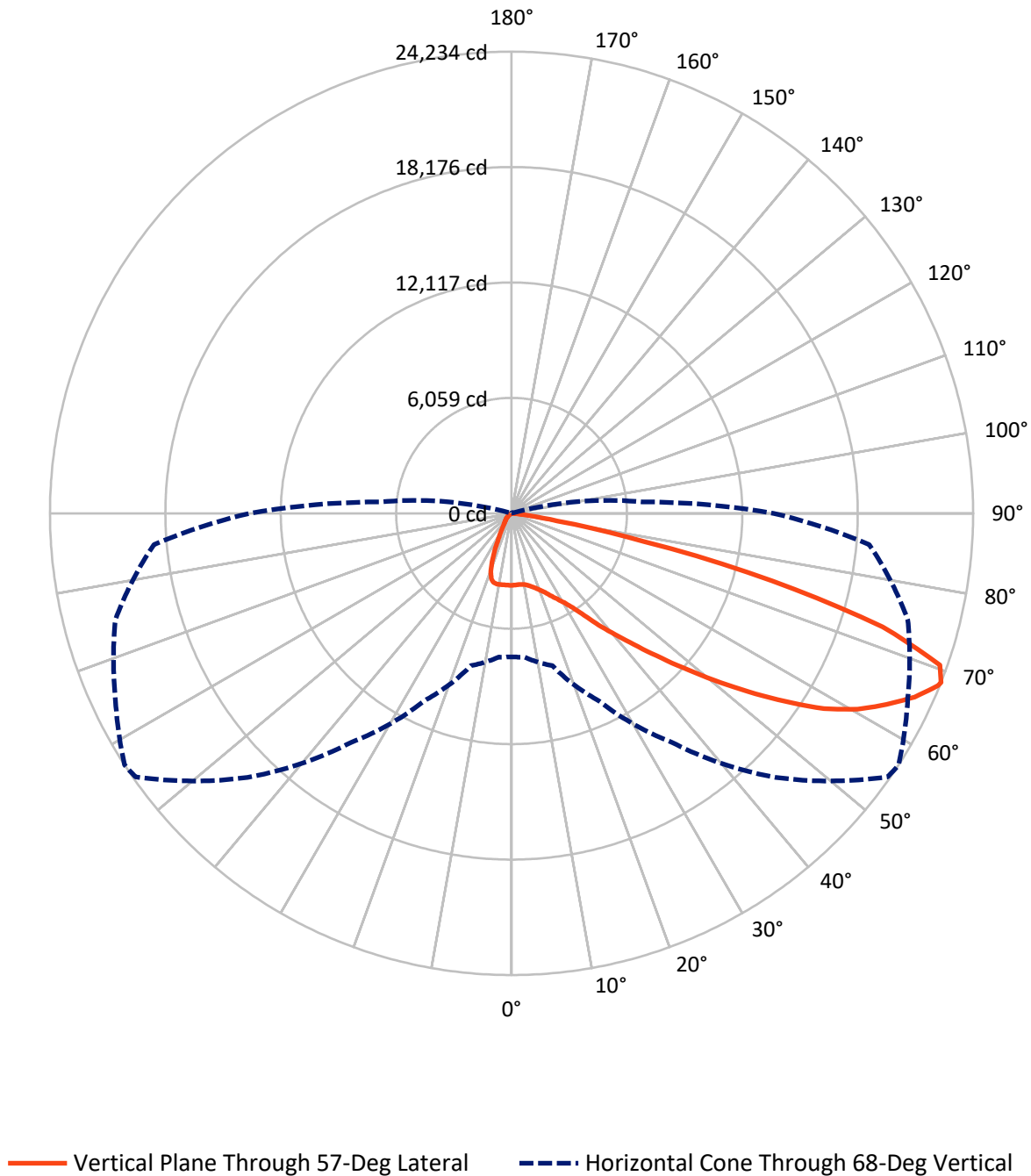
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3484.9	0.0	3484.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	28295.1	0.0	28295.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	31780.0	0.0	31780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.4	1.1
10°-20°	979.3	3.1
20°-30°	1689.4	5.3
30°-40°	2915.8	9.2
40°-50°	4987.6	15.7
50°-60°	7979.7	25.1
60°-70°	9219.7	29.0
70°-80°	3523.0	11.1
80°-90°	132.1	0.4
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°	31780.0	100.0
0°-180°	31780.0	100.0

Coefficient of Utilization



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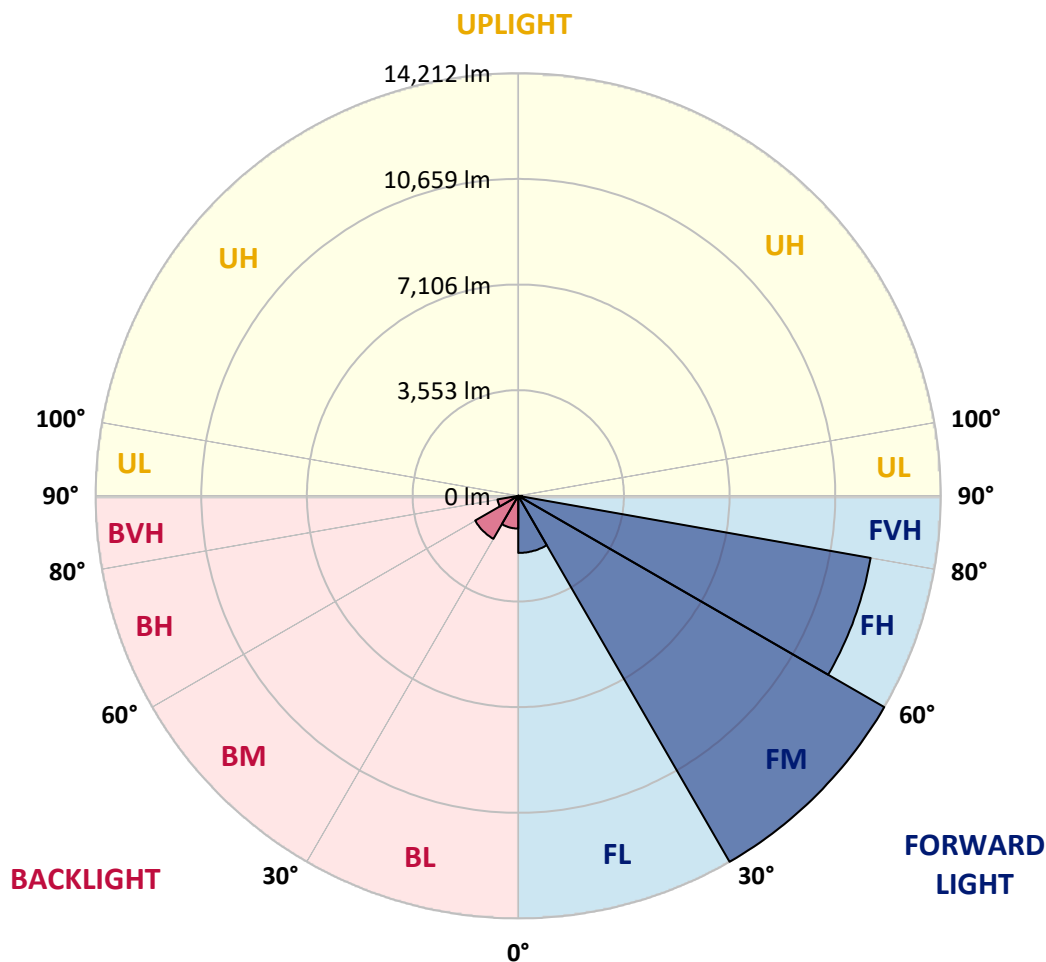
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1920.8	6.0			
FM	(30°-60°)	14211.7	44.7			
FH	(60°-80°)	12032.9	37.9			G5
FVH	(80°-90°)	129.7	0.4			G2/225
BL	(0°-30°)	1101.3	3.5	B3/2500		
BM	(30°-60°)	1671.4	5.3	B2/2500		
BH	(60°-80°)	709.7	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.4	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3
2.5°	3687.6	3704.2	3716.2	3723.7	3732.7	3752.3	3758.3	3767.3	3771.8	3771.8	3782.3
5°	3541.9	3559.9	3585.5	3606.5	3648.6	3702.7	3741.7	3756.8	3783.8	3807.9	3821.4
7.5°	3406.6	3427.7	3457.7	3507.3	3579.4	3666.6	3747.8	3768.8	3821.4	3872.5	3898.0
10°	3319.5	3336.0	3375.1	3445.7	3540.4	3662.1	3776.3	3801.8	3892.0	3977.7	4025.8
12.5°	3289.4	3304.5	3345.0	3424.7	3541.9	3684.6	3842.4	3880.0	4012.2	4137.0	4204.6
15°	3333.0	3336.0	3379.6	3454.7	3570.4	3740.2	3952.1	3997.2	4164.0	4326.3	4410.4
17.5°	3501.3	3487.8	3510.3	3543.4	3635.0	3813.9	4067.8	4135.4	4357.8	4548.7	4628.3
20°	3922.1	3922.1	3871.0	3780.8	3782.3	3928.1	4224.1	4300.7	4572.7	4793.6	4865.8
22.5°	4641.9	4628.3	4526.2	4305.3	4102.4	4124.9	4415.0	4514.1	4831.2	5067.1	5091.2
25°	5507.4	5490.9	5333.1	5022.0	4670.4	4443.5	4673.4	4787.6	5139.3	5348.1	5298.5
27.5°	6424.1	6410.5	6254.3	5868.1	5367.7	4951.4	4981.5	5089.7	5453.3	5659.2	5501.4
30°	7312.2	7316.7	7161.9	6765.2	6198.7	5599.1	5372.2	5435.3	5758.4	5967.2	5741.8
32.5°	8156.7	8162.7	8029.0	7585.7	7056.7	6351.9	5913.2	5896.6	6113.0	6318.9	6060.4
35°	8909.5	8924.6	8832.9	8488.8	7928.3	7190.5	6614.9	6575.8	6616.4	6849.3	6548.8
37.5°	9635.4	9644.4	9575.2	9285.2	8816.4	8111.6	7501.5	7445.9	7358.8	7537.6	7193.5
40°	10430.3	10407.7	10328.1	10065.1	9662.4	9128.9	8454.2	8358.1	8206.3	8365.6	8041.0
42.5°	11169.6	11144.1	11157.6	10860.1	10520.4	10174.8	9564.7	9399.4	9310.8	9494.1	9080.9
45°	12093.8	12080.3	12125.3	11866.9	11591.9	11340.9	10837.5	10657.2	10618.1	10833.0	10338.6
47.5°	13005.9	13039.0	13178.7	13069.0	12957.8	12736.9	12185.4	12104.3	12128.3	12388.3	11665.5
50°	13766.3	13805.4	14188.6	14314.8	14475.6	14346.3	13793.3	13743.8	13838.4	14072.8	13093.1
52.5°	14316.3	14395.9	14872.3	15453.8	16039.9	16127.0	15575.6	15530.5	15658.2	15694.3	14196.1
55°	14698.0	14768.6	15308.1	16372.0	17565.1	17940.8	17598.2	17423.9	17399.8	17043.7	15356.2
57.5°	14765.6	14758.1	15533.5	16965.6	18761.3	19730.5	19514.1	19342.8	18850.0	18290.9	16686.1
60°	14383.9	14427.5	15327.6	17171.4	19512.6	21084.5	21101.0	20878.6	20110.7	19503.6	17975.4
62.5°	13208.8	13386.1	14295.2	16632.0	19503.6	21630.0	22264.1	22094.3	21176.1	20496.9	19282.7
65°	11303.4	11366.5	12233.5	14783.6	18185.8	21401.5	23311.5	23248.4	22136.4	21461.7	19954.4
67.5°	8254.4	8117.6	9028.3	11641.5	15396.7	20070.2	24062.8	24142.5	22877.2	21660.0	19239.2
68°	7533.1	7573.6	8282.9	10864.6	14666.4	19599.8	24112.4	24234.2	22950.8	21530.8	18848.4
70°	4490.1	4568.2	5200.9	7480.5	11157.6	16938.5	23577.5	23855.5	22512.0	20197.9	16302.9
72.5°	1146.6	1239.7	1837.8	3348.0	6373.0	11934.5	19903.3	20373.7	19545.7	16385.5	11005.8
75°	471.8	495.9	656.7	1103.0	2374.3	5376.7	13118.6	14125.4	13549.9	9809.7	4974.0
77.5°	326.1	342.6	422.3	611.6	1027.9	1822.8	6431.6	7158.9	6449.6	3348.0	1085.0
80°	234.4	247.9	302.0	407.2	590.6	650.7	2096.3	2423.9	1925.0	734.8	269.0
82.5°	139.8	150.3	225.4	290.0	359.1	311.1	521.4	592.1	557.5	365.2	120.2
85°	69.1	81.1	151.8	207.4	193.8	130.7	159.3	177.3	219.4	222.4	64.6
87.5°	4.5	9.0	88.7	124.7	54.1	30.1	46.6	57.1	78.1	109.7	27.0
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°	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3	3776.3
2.5°	3786.8	3788.3	3777.8	3773.3	3776.3	3758.3	3750.8	3753.8	3753.8	3758.3	3750.8
5°	3824.4	3824.4	3806.4	3782.3	3768.8	3734.2	3711.7	3705.7	3701.2	3698.2	3692.2
7.5°	3905.5	3896.5	3865.0	3812.4	3767.3	3692.2	3635.0	3605.0	3590.0	3584.0	3579.4
10°	4036.3	4019.7	3967.1	3869.5	3765.8	3632.0	3507.3	3418.7	3345.0	3315.0	3296.9
12.5°	4212.1	4188.0	4099.4	3937.1	3755.3	3508.8	3238.3	2978.4	2736.4	2637.3	2587.7
15°	4415.0	4380.4	4240.6	3994.2	3693.7	3230.8	2643.3	2187.9	1852.8	1726.6	1672.5
17.5°	4620.8	4575.7	4363.9	4030.3	3508.8	2655.3	1854.3	1400.5	1176.6	1116.5	1095.5
20°	4828.2	4762.1	4470.6	4003.2	3091.1	1914.4	1223.2	1023.3	958.7	940.7	934.7
22.5°	5025.1	4922.9	4566.7	3898.0	2447.9	1284.8	967.7	904.6	883.6	873.1	870.1
25°	5196.4	5053.6	4650.9	3573.4	1732.6	970.7	871.6	850.5	823.5	803.9	805.5
27.5°	5357.1	5184.3	4702.0	3038.5	1155.6	829.5	807.0	778.4	728.8	700.3	700.3
30°	5551.0	5358.7	4739.5	2338.2	850.5	733.3	715.3	671.7	604.1	566.5	566.5
32.5°	5842.5	5623.1	4715.5	1641.0	704.8	644.7	602.6	542.5	468.8	432.8	431.3
35°	6288.8	6031.9	4544.2	1075.9	622.1	560.5	492.9	419.3	354.6	324.6	323.1
37.5°	6889.9	6578.8	4159.5	769.4	557.5	482.4	401.2	320.1	272.0	252.5	251.0
40°	7669.8	7214.5	3609.5	623.6	497.4	407.2	309.6	247.9	214.9	199.9	201.4
42.5°	8606.0	7895.2	2949.8	538.0	438.8	335.1	241.9	195.4	174.3	163.8	160.8
45°	9645.9	8566.9	2258.6	479.4	380.2	270.5	189.3	154.8	138.2	132.2	132.2
47.5°	10789.4	9220.6	1653.0	428.3	317.1	208.9	151.8	126.2	112.7	108.2	106.7
50°	11827.8	9674.4	1191.6	374.2	260.0	165.3	123.2	105.2	96.2	90.2	90.2
52.5°	12693.4	9817.2	877.6	315.6	210.4	132.2	102.2	90.2	81.1	76.6	76.6
55°	13455.2	9758.6	652.2	260.0	169.8	108.2	87.2	76.6	69.1	64.6	64.6
57.5°	14185.6	9569.2	486.9	211.9	136.7	87.2	73.6	64.6	57.1	54.1	54.1
60°	14782.1	9253.7	362.2	171.3	109.7	70.6	61.6	52.6	46.6	42.1	42.1
62.5°	15266.0	8905.0	266.0	141.3	87.2	55.6	48.1	43.6	34.6	30.1	30.1
65°	15269.0	8326.5	199.9	117.2	67.6	43.6	36.1	34.6	22.5	18.0	16.5
67.5°	14164.5	7178.4	153.3	100.7	52.6	33.1	27.0	28.6	12.0	7.5	6.0
68°	13763.3	6886.9	144.3	99.2	49.6	31.6	25.5	28.6	10.5	6.0	4.5
70°	11603.9	5478.9	115.7	96.2	43.6	24.0	21.0	28.6	9.0	4.5	3.0
72.5°	7421.9	3179.7	85.7	76.6	33.1	18.0	13.5	25.5	9.0	3.0	1.5
75°	3158.7	985.8	58.6	54.1	19.5	13.5	9.0	16.5	6.0	1.5	0.0
77.5°	665.7	222.4	34.6	33.1	13.5	9.0	6.0	4.5	1.5	0.0	0.0
80°	171.3	64.6	18.0	16.5	7.5	4.5	3.0	0.0	0.0	0.0	0.0
82.5°	54.1	25.5	10.5	7.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.0	15.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.0	4.5	1.5	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)