

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: P268417

Luminaire Tested: **GAN-AF-04-LED-U-AFL-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-AFL-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13797.7 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 171
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: 28.75 FT

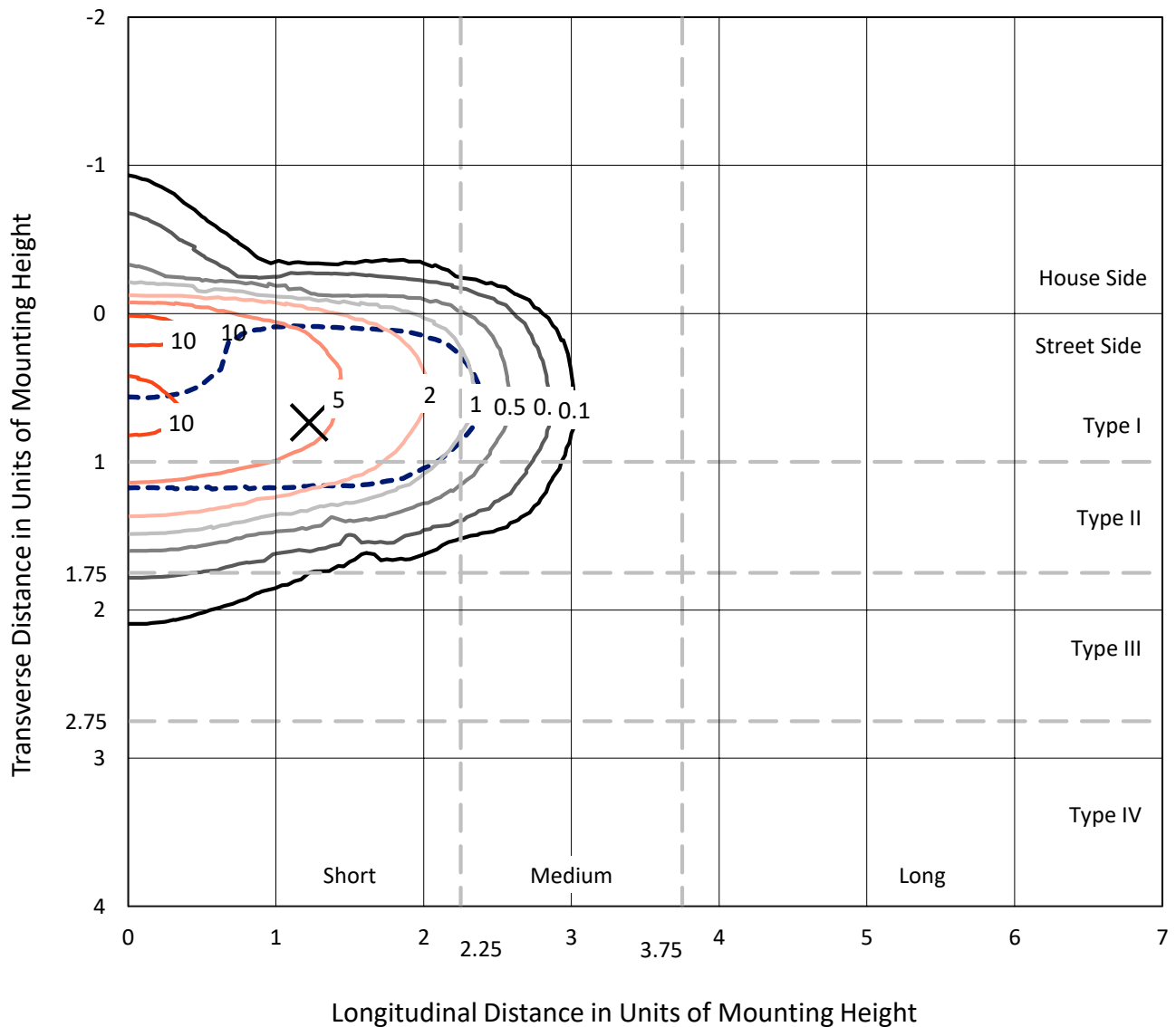


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

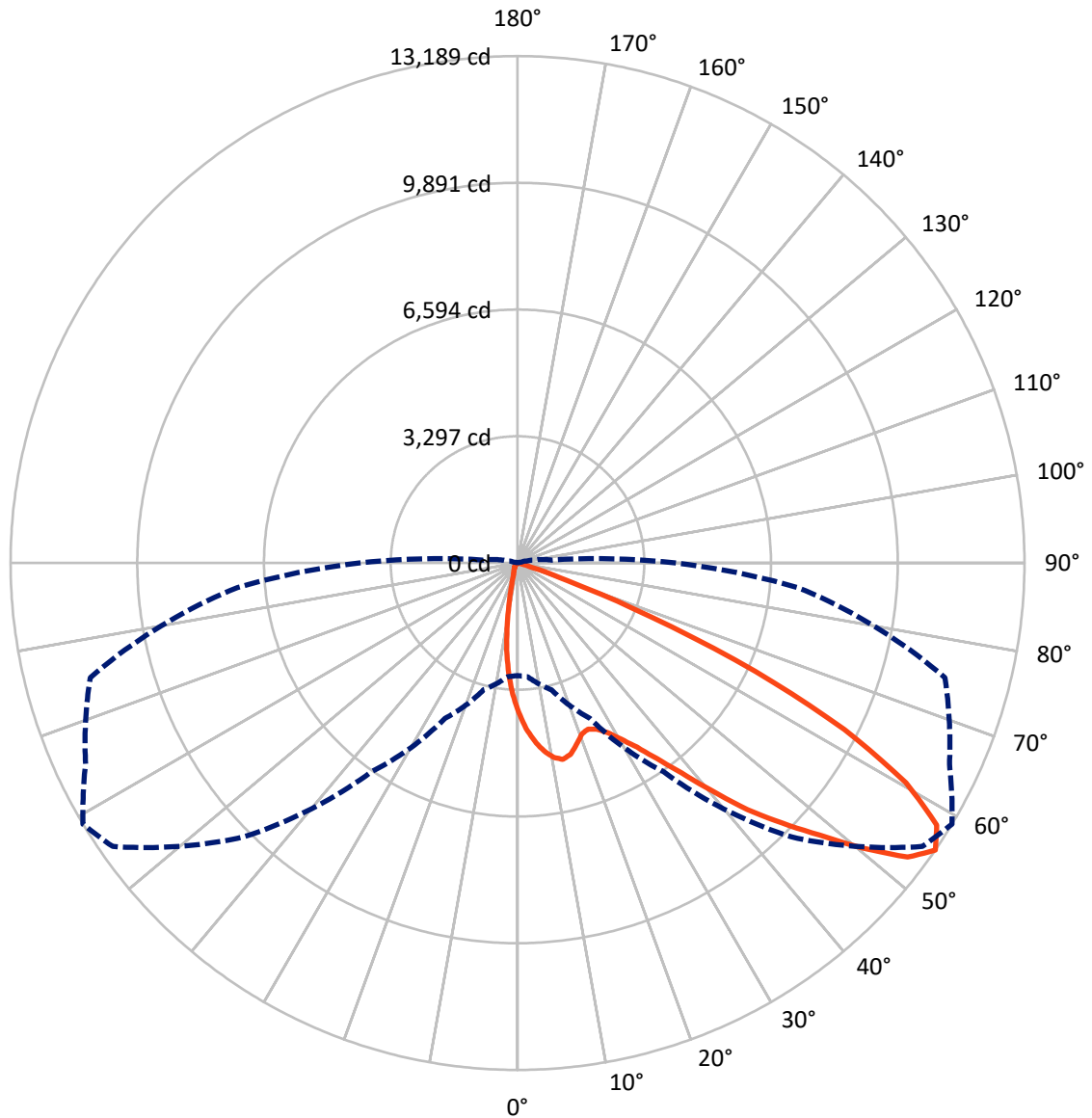


Based on 20 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical



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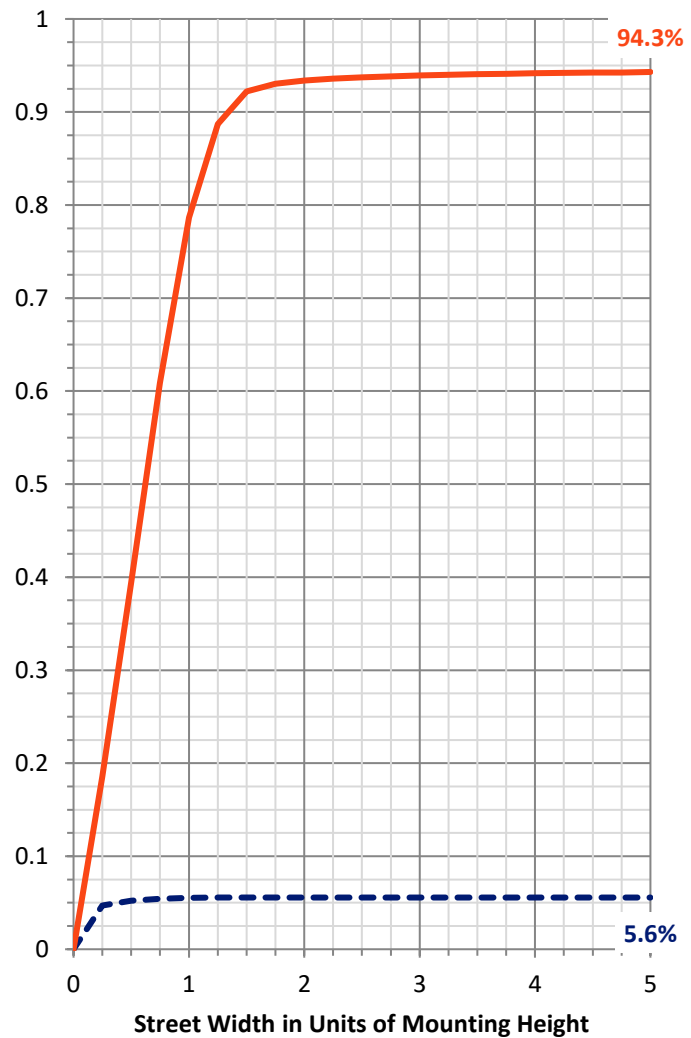
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	770.7	0.0	770.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	13027.0	0.0	13027.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	13797.7	0.0	13797.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.3	2.4
10°-20°	778.9	5.6
20°-30°	1325.4	9.6
30°-40°	2279.4	16.5
40°-50°	3519.2	25.5
50°-60°	3537.9	25.6
60°-70°	1814.3	13.1
70°-80°	196.6	1.4
80°-90°	20.6	0.1
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°	13797.7	100.0
0°-180°	13797.7	100.0

Coefficient of Utilization



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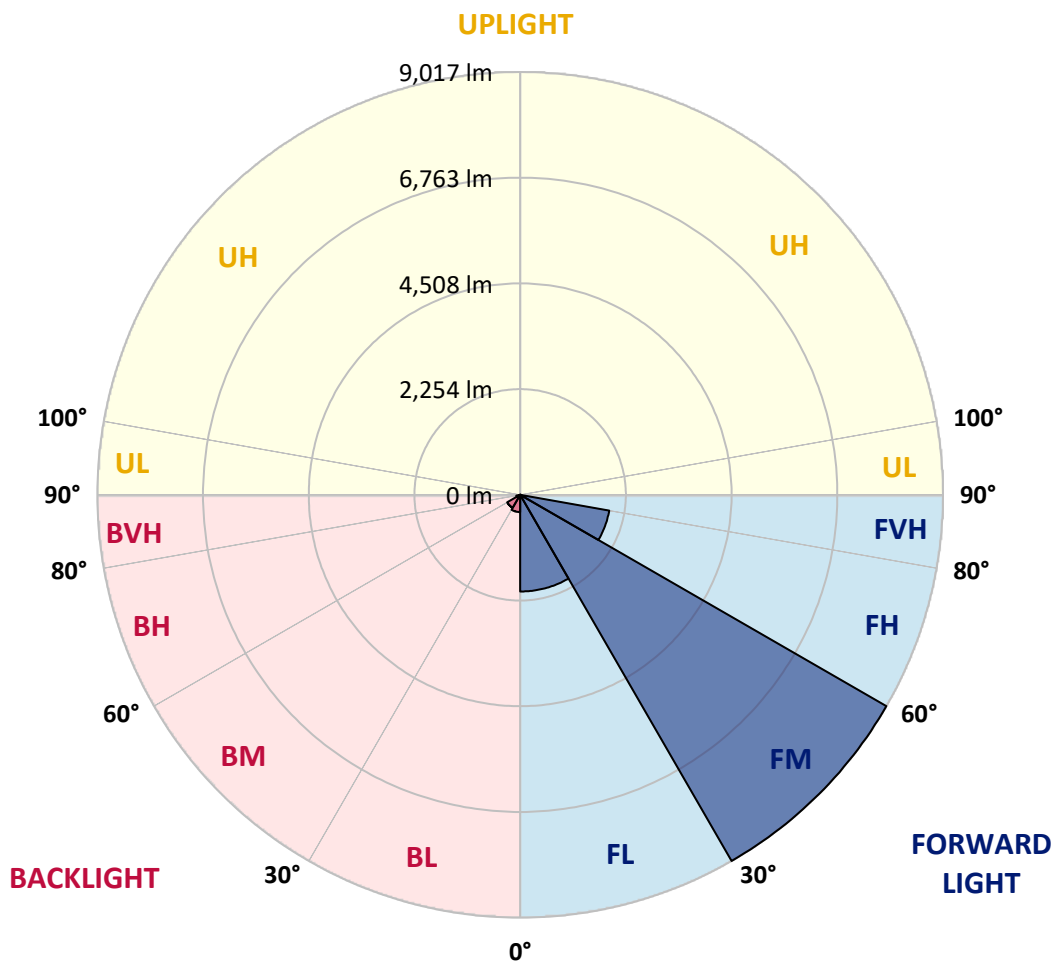
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2061.8	14.9			
FM	(30°-60°)	9016.7	65.3			
FH	(60°-80°)	1928.3	14.0			G2/5000
FVH	(80°-90°)	20.1	0.1			G1/100
BL	(0°-30°)	367.8	2.7	B1/500		
BM	(30°-60°)	319.8	2.3	B1/1000		
BH	(60°-80°)	82.6	0.6	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0
2.5°	4595.6	4546.9	4532.2	4522.3	4477.6	4421.4	4344.8	4309.0	4235.8	4117.7	3972.8
5°	5016.7	5007.6	4975.2	4957.1	4909.1	4829.4	4707.2	4648.5	4532.2	4333.5	4073.8
7.5°	4832.6	4888.8	4933.6	5008.5	5102.9	5099.7	4997.1	4935.9	4805.8	4543.5	4186.1
10°	4121.8	4167.3	4240.5	4410.8	4757.8	5063.8	5184.4	5140.5	5036.2	4736.6	4294.3
12.5°	3982.5	3977.6	3990.7	4040.3	4221.9	4658.3	5152.6	5241.3	5220.2	4913.2	4396.9
15°	4056.7	4050.8	4049.3	4066.4	4110.4	4294.3	4914.0	5168.8	5332.6	5077.0	4484.1
17.5°	4264.3	4239.8	4226.7	4213.0	4199.9	4245.5	4627.3	4966.1	5349.6	5220.2	4556.6
20°	4620.2	4579.4	4531.3	4453.2	4379.9	4357.0	4506.8	4757.8	5288.6	5329.3	4603.9
22.5°	5067.1	5015.0	4932.0	4789.5	4640.5	4554.1	4566.4	4691.8	5197.4	5448.2	4625.8
25°	5569.5	5502.7	5391.9	5194.1	4975.2	4822.0	4742.2	4786.2	5155.8	5587.4	4651.1
27.5°	6107.8	6033.6	5888.7	5619.2	5370.8	5163.9	5001.1	4995.5	5226.7	5769.9	4691.8
30°	6641.1	6629.6	6440.8	6155.7	5826.8	5575.2	5340.8	5310.6	5424.5	6022.2	4772.3
32.5°	7352.6	7267.2	7036.0	6742.9	6363.5	6061.4	5783.6	5713.6	5728.3	6316.2	4896.9
35°	8250.0	8156.4	7830.6	7426.0	7001.7	6645.1	6338.1	6243.0	6207.1	6797.4	5107.0
37.5°	8829.8	8828.2	8623.8	8211.8	7756.5	7363.2	7029.4	6917.8	6845.4	7378.8	5432.7
40°	8845.3	8883.5	8910.4	8906.3	8582.2	8219.9	7923.5	7785.9	7617.4	8155.6	5853.6
42.5°	8370.5	8469.1	8706.1	9108.3	9300.4	9156.3	8906.3	8771.1	8520.3	8987.0	6366.6
45°	7728.8	7797.3	8211.8	8952.7	9689.7	10084.6	9894.0	9652.2	9321.6	9854.0	6826.7
47.5°	7441.5	7453.6	7721.7	8535.1	9718.9	10845.1	10960.7	10567.4	10049.5	10552.7	7186.6
50°	6582.4	6604.3	6974.1	7811.1	9375.3	11204.1	12032.3	11659.3	10843.4	11091.0	7317.8
52.5°	4961.2	4992.2	5461.2	6621.5	8430.9	11051.0	12799.3	12709.0	11713.1	11353.9	7325.0
55°	2927.2	2968.0	3415.7	4457.2	6631.3	10077.1	12856.3	13188.5	12399.5	11509.4	7313.6
57.5°	1367.1	1395.6	1652.2	2296.2	4124.2	7964.3	11998.0	12859.5	12778.1	11591.6	7394.3
60°	726.3	734.5	796.3	994.2	1863.9	5050.0	10323.1	11612.1	12432.8	11705.8	7492.8
62.5°	555.3	557.8	554.6	578.1	783.3	2241.6	7802.9	9546.3	11043.0	11620.2	7383.7
65°	481.2	485.4	462.4	456.8	502.4	799.6	4635.6	6804.8	8677.4	10466.4	6640.2
67.5°	431.5	433.3	405.5	381.9	390.0	432.4	1828.8	3725.2	5743.8	7672.0	4813.1
70°	397.4	395.8	365.6	328.2	317.6	295.6	581.4	1365.6	2744.9	3890.5	2238.3
72.5°	351.7	352.6	337.9	289.1	263.8	206.8	269.5	398.2	819.2	1060.2	524.4
75°	311.8	307.8	289.9	258.9	217.4	136.0	133.6	177.5	252.5	250.7	113.1
77.5°	225.6	221.5	227.2	212.4	166.9	87.9	66.7	85.5	102.5	99.4	31.8
80°	165.3	162.9	146.6	176.6	147.4	60.2	41.5	45.6	52.9	44.7	9.8
82.5°	113.1	112.4	103.5	97.7	83.9	36.7	26.1	28.4	34.1	25.2	4.9
85°	18.0	20.3	74.9	59.5	49.6	16.3	18.0	19.6	22.7	13.8	1.6
87.5°	0.0	0.0	35.0	30.9	9.8	6.5	10.6	11.4	11.4	7.4	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°	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0
2.5°	3898.6	3817.2	3666.6	3511.0	3366.9	3195.1	3077.1	2988.3	2885.7	2858.0	2918.2
5°	3925.6	3771.7	3447.5	3095.0	2763.5	2396.4	2115.4	1893.2	1692.0	1623.6	1685.5
7.5°	3967.9	3739.0	3210.6	2630.1	2053.5	1480.2	1087.8	829.8	665.3	616.3	642.5
10°	4010.3	3691.9	2936.2	2079.5	1291.5	720.6	469.0	374.6	339.6	332.3	336.2
12.5°	4045.2	3628.3	2601.5	1478.7	690.4	385.9	307.0	291.5	286.6	286.6	288.3
15°	4066.4	3532.2	2205.0	940.4	397.4	291.5	267.9	263.1	263.1	263.8	265.4
17.5°	4063.9	3410.1	1771.0	569.2	297.2	258.2	244.2	240.1	239.4	241.0	241.9
20°	4033.7	3250.4	1335.4	375.4	258.9	235.4	221.5	214.2	213.3	215.0	216.6
22.5°	3976.8	3053.5	955.1	289.1	233.6	213.3	196.2	189.7	189.7	191.3	193.0
25°	3907.5	2812.5	653.1	245.1	210.9	189.7	173.5	167.8	169.4	173.5	174.2
27.5°	3821.3	2541.2	443.8	210.1	183.3	166.0	153.9	149.7	153.9	159.5	161.2
30°	3747.2	2258.8	316.7	181.5	155.5	143.3	136.0	136.0	141.8	152.3	154.7
32.5°	3690.1	1985.2	244.2	160.3	135.1	124.5	120.6	124.5	133.6	144.1	146.6
35°	3683.0	1759.6	206.8	143.3	120.6	110.0	108.2	115.6	124.5	132.7	134.3
37.5°	3739.0	1551.2	186.5	129.4	107.4	97.7	96.1	105.0	113.9	123.7	126.2
40°	3845.7	1387.5	171.8	116.4	96.8	86.2	83.1	89.7	101.8	114.9	118.0
42.5°	3984.2	1252.3	155.5	103.5	86.2	71.7	67.6	74.9	87.9	101.8	105.9
45°	4116.0	1135.8	137.6	88.8	72.5	55.3	53.8	63.5	70.0	83.9	87.1
47.5°	4188.5	1033.3	122.1	72.5	56.1	44.7	44.7	47.3	53.8	70.0	73.3
50°	4164.2	951.0	105.9	53.8	39.0	34.1	34.1	33.3	43.2	56.1	58.6
52.5°	4115.2	903.9	91.2	41.5	26.9	24.4	22.0	24.4	30.2	35.8	36.7
55°	4107.9	895.7	76.5	33.3	18.8	16.3	12.1	12.1	12.1	11.4	9.8
57.5°	4164.9	908.7	64.3	26.9	13.8	10.6	6.5	0.0	0.0	0.0	0.0
60°	4223.6	922.6	55.3	18.8	9.8	5.7	0.8	0.0	0.0	0.0	0.0
62.5°	4125.8	891.6	46.4	11.4	7.4	2.4	0.0	0.0	0.0	0.0	0.0
65°	3624.2	758.9	36.7	8.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2578.0	508.1	24.4	4.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	1176.6	212.4	15.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	251.6	65.9	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	51.4	48.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	16.3	75.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.8	54.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.6	8.2	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)