

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: P383632

Luminaire Tested: **GLEON-SA9A-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28129 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

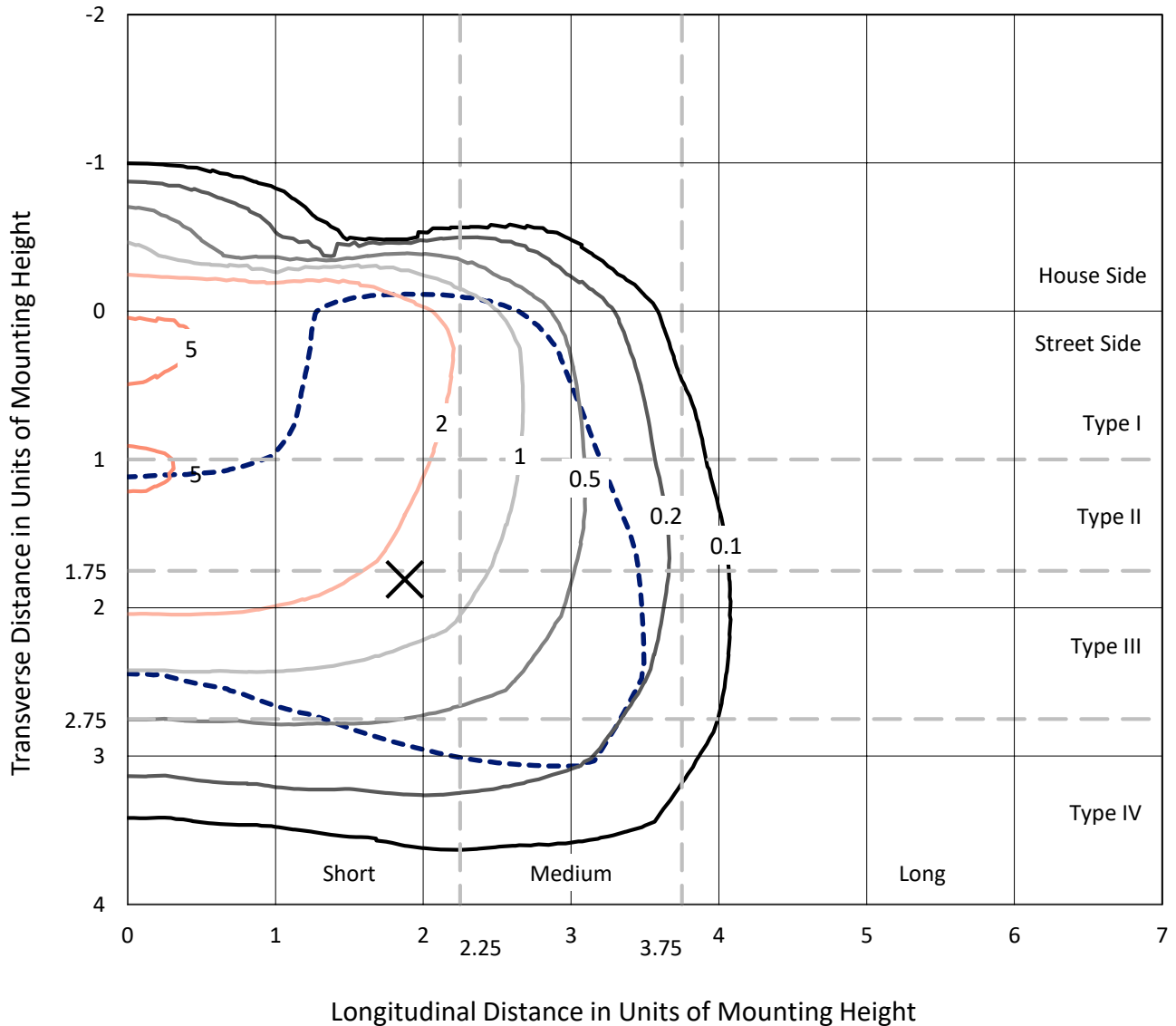
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

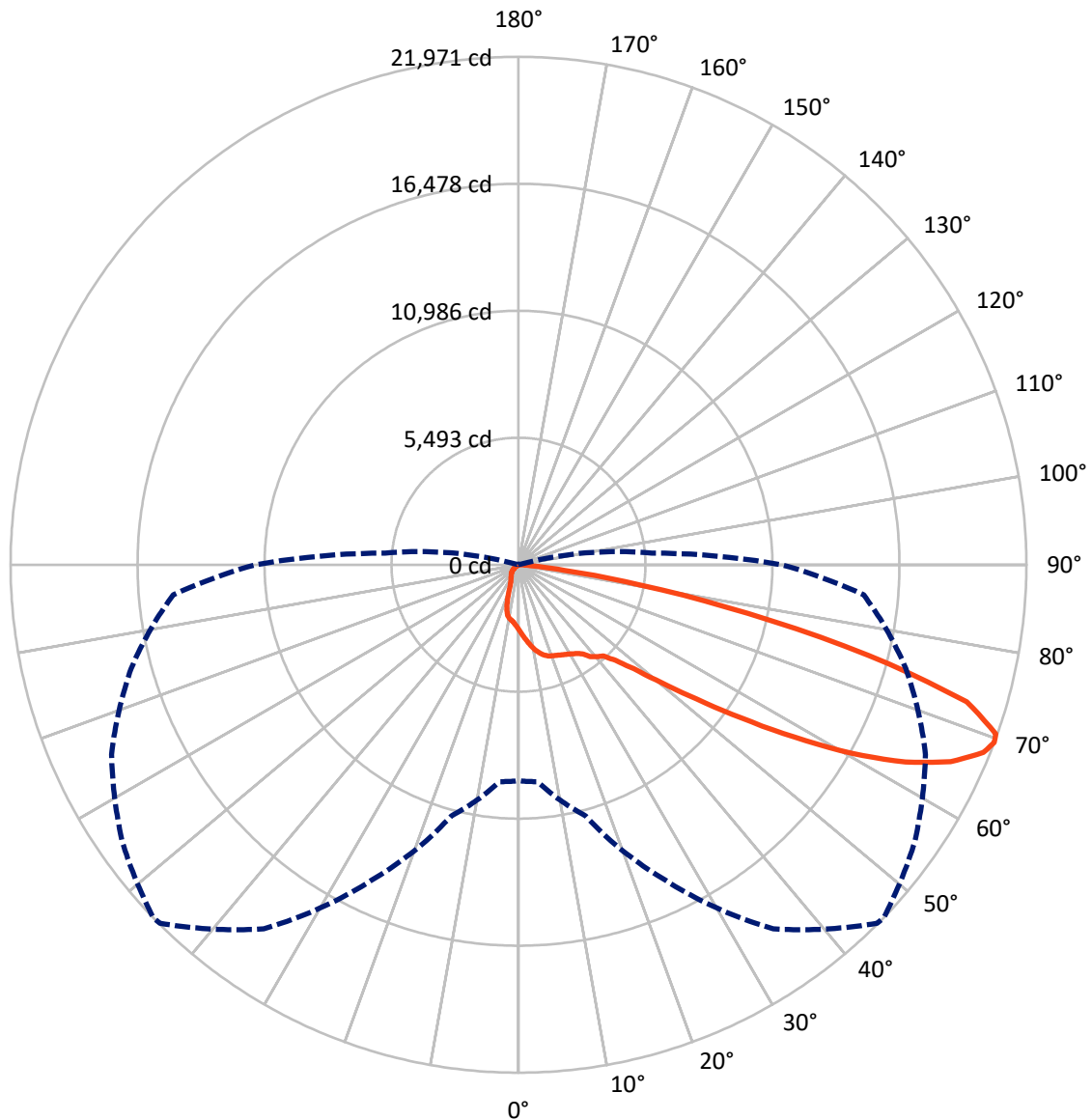
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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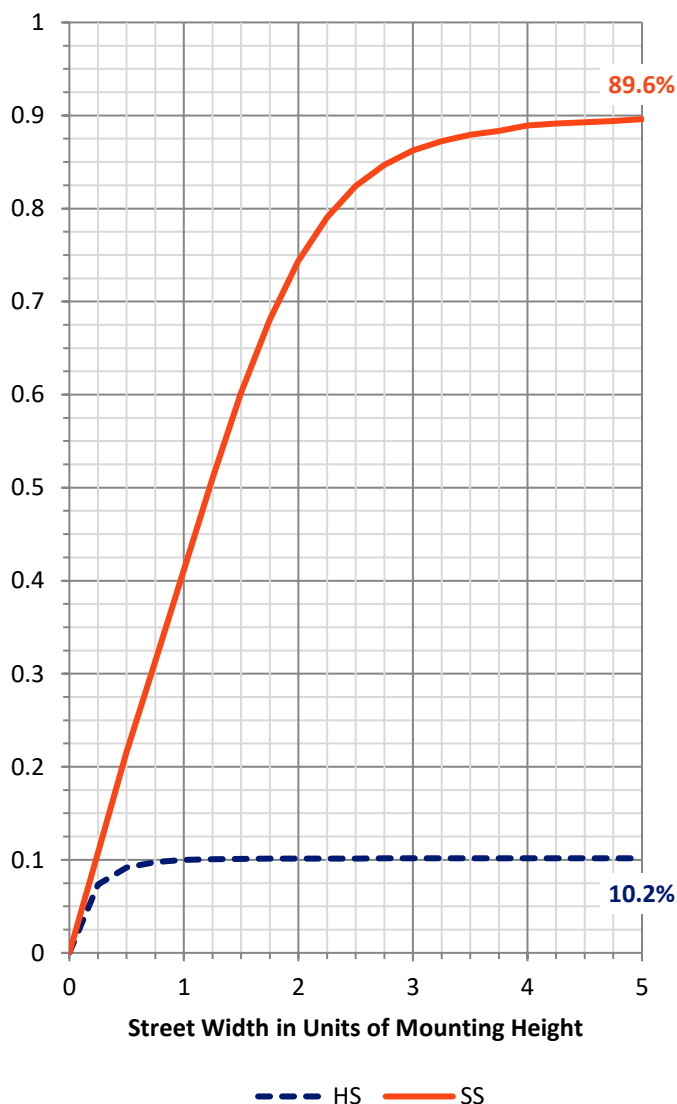
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2886.8	0.0	2886.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	25242.2	0.0	25242.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	28129.0	0.0	28129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.5	1.0
10°-20°	851.1	3.0
20°-30°	1338.4	4.8
30°-40°	1919.3	6.8
40°-50°	3317.3	11.8
50°-60°	6553.7	23.3
60°-70°	9159.3	32.6
70°-80°	4424.9	15.7
80°-90°	284.4	1.0
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°	28129.0	100.0
0°-180°	28129.0	100.0

Coefficient of Utilization



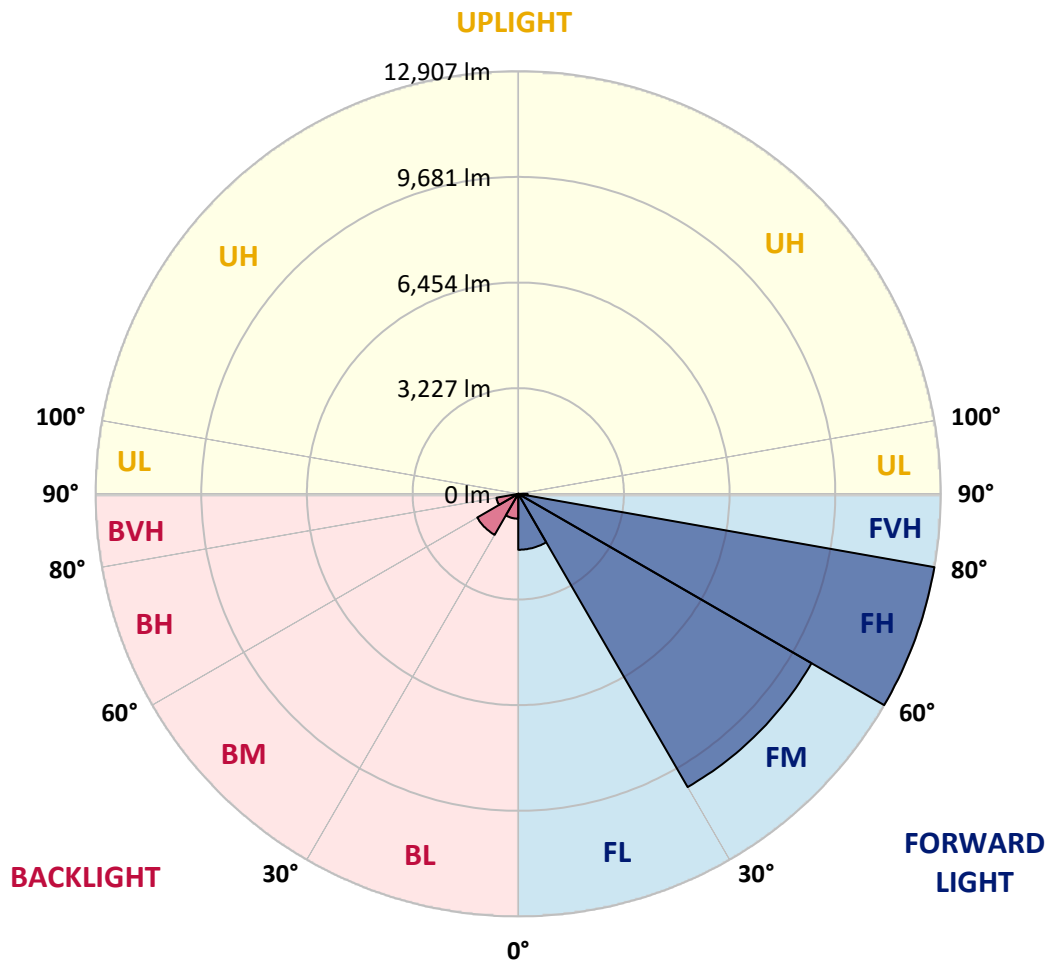
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1709.2	6.1			
FM	(30°-60°)	10343.7	36.8			
FH	(60°-80°)	12907.4	45.9			G5
FVH	(80°-90°)	282.0	1.0			G3/500
BL	(0°-30°)	760.9	2.7	B2/1000		
BM	(30°-60°)	1446.6	5.1	B2/2500		
BH	(60°-80°)	676.9	2.4	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: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4
2.5°	3131.0	3127.0	3108.6	3100.7	3055.8	3029.5	3018.9	2985.9	2938.5	2891.0	2838.2
5°	3487.1	3485.8	3451.5	3418.5	3334.1	3255.0	3240.5	3164.0	3057.2	2956.9	2856.7
7.5°	3851.1	3834.0	3799.7	3736.3	3613.7	3487.1	3475.2	3367.1	3215.4	3070.3	2926.5
10°	4159.7	4149.2	4104.3	4008.1	3864.2	3720.5	3706.0	3572.9	3401.4	3223.3	3040.0
12.5°	4399.7	4391.9	4332.4	4212.5	4059.5	3910.5	3890.7	3771.9	3588.6	3389.5	3173.2
15°	4546.1	4542.2	4469.7	4341.8	4191.4	4062.1	4045.0	3940.8	3770.6	3562.2	3318.3
17.5°	4580.4	4581.7	4506.5	4377.3	4253.4	4161.0	4147.8	4068.7	3926.3	3719.2	3463.3
20°	4503.9	4519.8	4452.5	4340.4	4263.9	4215.1	4204.5	4157.0	4037.0	3841.9	3579.4
22.5°	4395.8	4403.7	4357.5	4282.3	4250.7	4260.0	4254.7	4228.3	4126.8	3947.3	3694.1
25°	4329.8	4329.8	4302.2	4238.8	4260.0	4316.7	4318.0	4312.7	4232.2	4076.6	3834.0
27.5°	4327.2	4319.3	4287.6	4240.1	4298.2	4385.3	4390.5	4426.2	4376.0	4233.6	4008.1
30°	4432.7	4423.5	4356.2	4294.2	4368.1	4461.7	4474.9	4552.8	4527.7	4403.7	4201.9
32.5°	4679.3	4646.4	4497.3	4395.8	4451.2	4563.3	4580.4	4704.4	4744.0	4613.4	4389.2
35°	5016.9	4912.8	4697.8	4588.3	4593.6	4711.0	4726.9	4908.8	5026.2	4805.9	4534.3
37.5°	5482.5	5431.1	5081.6	4788.8	4812.6	4990.6	5036.8	5234.6	5201.6	4911.5	4699.1
40°	6503.3	6422.9	6051.0	5350.6	5022.3	5217.4	5231.9	5337.5	5340.1	5150.2	5042.0
42.5°	7893.5	7860.5	7468.8	6370.1	5435.0	5369.1	5395.5	5573.5	5772.7	5654.0	5648.7
45°	9432.6	9415.4	9000.0	7723.3	6269.9	5866.3	5899.3	6138.0	6519.2	6545.5	6713.0
47.5°	10671.0	10663.1	10424.3	9233.4	7547.9	6709.1	6719.6	6972.8	7642.9	7973.9	8241.6
50°	11799.9	11838.2	11649.6	10867.4	9288.8	8029.3	8004.2	8173.0	9249.2	9791.3	10123.6
52.5°	13369.4	13423.4	12894.6	12392.1	11115.4	9667.3	9647.5	9824.3	11180.1	11586.2	11645.6
55°	14755.5	14663.2	14245.1	14100.0	13343.0	11690.5	11685.1	11840.8	13047.5	13220.3	13329.8
57.5°	15367.5	15331.9	15533.6	15866.0	15676.1	14081.6	14069.7	13951.0	14718.5	14737.0	15073.4
60°	15753.9	15797.4	16415.9	17440.7	17914.2	16654.7	16578.2	15854.1	16314.4	16273.5	16633.5
62.5°	15463.7	15549.5	16662.6	18370.5	19589.1	18900.7	18792.6	17597.7	17678.1	17537.0	17872.0
65°	13923.3	14056.5	15880.5	18195.1	20420.1	20656.1	20546.7	19136.8	18760.9	18528.8	18342.8
67.5°	11305.4	11384.4	13288.9	16669.2	20045.5	21703.3	21680.8	20485.9	19578.6	18361.3	16918.5
69°	9342.9	9420.6	11253.9	15062.8	19221.2	21927.5	21971.0	20918.6	19423.0	17343.1	14990.3
70°	7913.2	7996.3	9704.2	13685.9	18265.0	21823.3	21901.1	20877.7	18977.2	16164.0	13298.1
72.5°	4150.5	4221.7	5974.5	9428.6	14890.0	20038.9	20274.9	19113.0	16086.2	11739.3	7863.1
75°	1304.4	1345.2	2333.1	4928.6	10194.9	15581.1	15635.2	14992.9	11422.7	6457.2	3274.8
77.5°	497.2	485.3	776.8	1816.1	5154.2	9811.1	10142.1	9369.2	5994.2	2282.9	755.7
80°	267.7	269.0	403.5	751.8	2205.2	5042.0	5321.7	4540.8	2130.0	712.2	174.1
82.5°	116.1	121.4	226.8	398.3	1012.9	1859.6	1999.4	1664.4	813.7	478.7	64.6
85°	25.1	27.7	109.5	216.3	412.8	522.2	547.3	539.5	518.3	372.0	25.1
87.5°	0.0	0.0	48.8	77.8	104.1	118.7	104.1	135.8	286.2	250.6	13.2
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°	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4
2.5°	2821.1	2797.3	2756.4	2711.5	2680.0	2647.0	2620.6	2608.7	2595.6	2586.3	2598.2
5°	2815.8	2769.6	2690.5	2614.0	2558.6	2513.8	2476.8	2462.4	2447.8	2437.3	2435.9
7.5°	2861.9	2797.3	2676.0	2563.9	2478.2	2417.5	2367.3	2346.3	2329.1	2321.2	2314.6
10°	2950.3	2867.2	2705.0	2558.6	2447.8	2345.0	2236.8	2153.7	2099.6	2074.6	2065.3
12.5°	3065.1	2960.8	2760.4	2586.3	2425.4	2227.6	1998.1	1800.2	1672.3	1630.1	1605.1
15°	3199.6	3070.3	2832.9	2621.9	2343.6	1982.2	1593.2	1334.7	1216.0	1192.3	1165.9
17.5°	3328.8	3186.4	2919.9	2628.5	2164.3	1584.0	1167.2	991.8	945.6	961.5	965.5
20°	3442.3	3301.1	3005.7	2570.5	1838.5	1188.3	903.4	859.9	877.1	907.4	912.6
22.5°	3557.0	3411.9	3084.8	2417.5	1421.7	902.1	813.7	824.3	841.5	871.7	877.1
25°	3696.8	3546.4	3158.7	2136.6	1067.0	767.6	772.8	788.6	805.8	833.5	836.2
27.5°	3857.7	3716.6	3207.5	1771.2	791.3	705.6	722.7	746.4	763.6	790.0	795.3
30°	4071.3	3940.8	3223.3	1392.8	663.4	650.2	658.1	687.1	712.2	735.9	739.9
32.5°	4271.8	4162.3	3170.5	1051.2	614.6	598.8	598.8	615.9	644.9	667.4	672.6
35°	4456.4	4385.3	3001.7	768.9	577.7	551.3	538.1	538.1	556.6	575.0	580.3
37.5°	4700.4	4697.8	2728.8	613.2	542.1	511.7	484.0	462.9	456.4	460.3	462.9
40°	5118.6	5122.5	2372.7	550.0	511.7	470.8	428.6	390.4	354.7	342.9	341.6
42.5°	5771.4	5712.1	1999.4	519.6	485.3	428.6	365.4	313.9	258.5	241.4	240.1
45°	6808.0	6455.9	1603.8	492.0	457.7	381.2	302.0	232.1	187.2	174.1	174.1
47.5°	8318.1	7433.1	1242.4	461.6	420.7	327.1	228.1	167.5	137.1	130.6	131.9
50°	9879.6	8390.6	952.2	423.4	375.9	270.3	168.8	121.4	104.1	104.1	105.5
52.5°	11264.5	9092.3	742.5	382.5	320.5	212.3	127.9	94.9	87.0	85.7	87.0
55°	12560.9	9544.6	568.4	335.0	254.5	158.3	97.6	77.8	72.6	69.9	68.6
57.5°	13811.2	9768.9	426.0	270.3	184.6	114.8	77.8	66.0	60.6	56.7	55.4
60°	14643.4	9586.8	292.8	199.2	127.9	83.1	64.6	56.7	50.1	46.2	44.8
62.5°	15112.9	9089.7	188.6	143.7	91.0	61.9	51.4	47.5	38.3	34.3	34.3
65°	14923.0	8269.3	131.9	102.8	66.0	46.2	38.3	38.3	27.7	22.5	21.1
67.5°	13224.2	6986.0	100.2	76.5	47.5	34.3	29.0	33.0	17.1	10.5	10.5
69°	11377.9	5789.8	85.7	63.3	39.6	27.7	25.1	30.4	11.8	7.9	6.6
70°	9888.8	4994.6	77.8	55.4	33.0	23.8	22.5	29.0	11.8	6.6	5.3
72.5°	5916.4	2785.4	59.3	39.6	21.1	18.4	18.4	33.0	11.8	6.6	5.3
75°	2391.1	981.2	43.5	27.7	15.8	15.8	22.5	42.2	10.5	5.3	3.9
77.5°	542.1	215.0	25.1	17.1	10.5	15.8	26.4	33.0	6.6	2.6	0.0
80°	131.9	52.7	15.8	10.5	6.6	11.8	19.7	18.4	1.3	0.0	0.0
82.5°	43.5	18.4	6.6	5.3	1.3	3.9	9.2	5.3	0.0	0.0	0.0
85°	18.4	10.5	2.6	1.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0
87.5°	11.8	3.9	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)