

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: P457776

Luminaire Tested: **GALN-SA9A-827-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22783 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

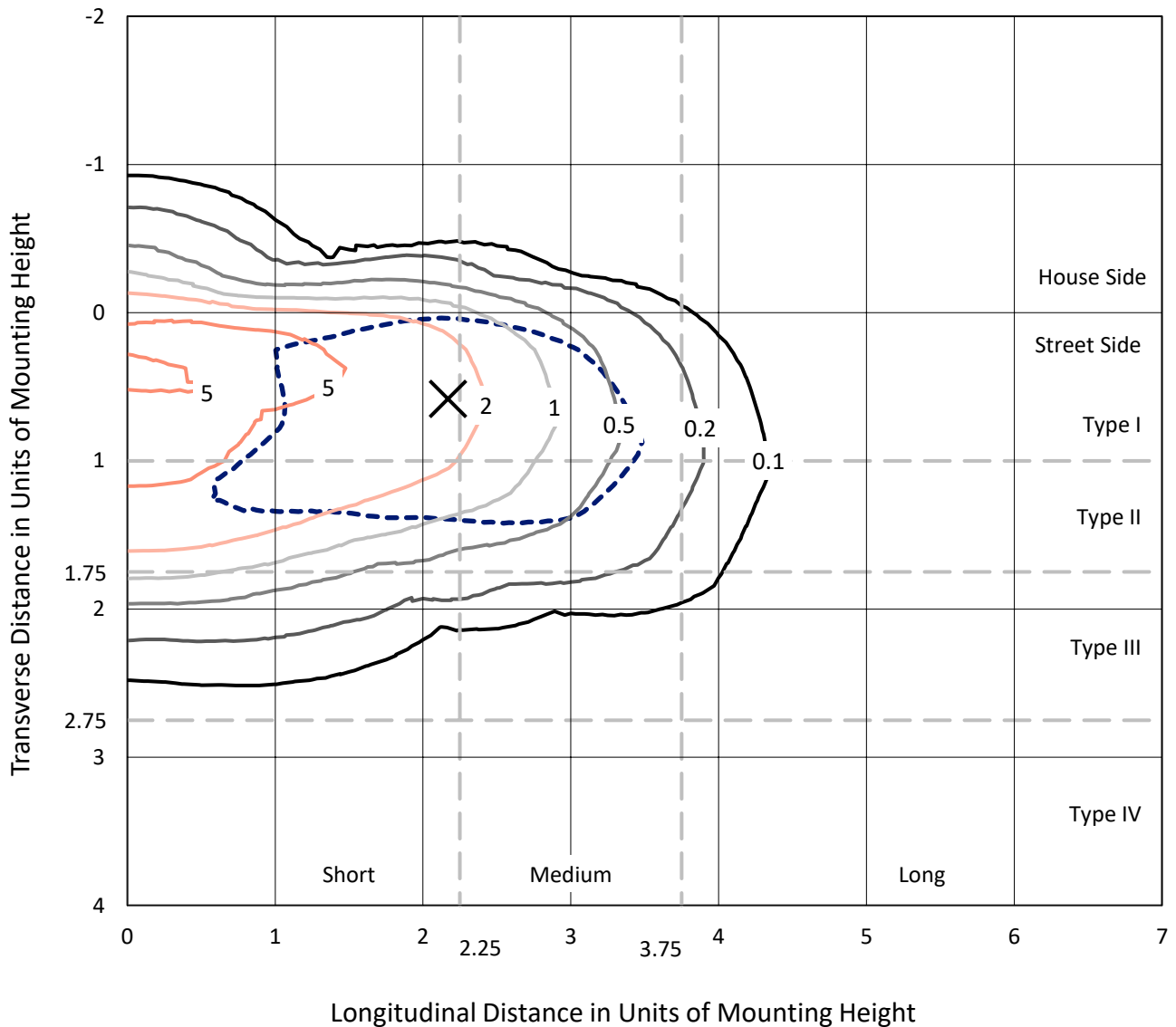
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

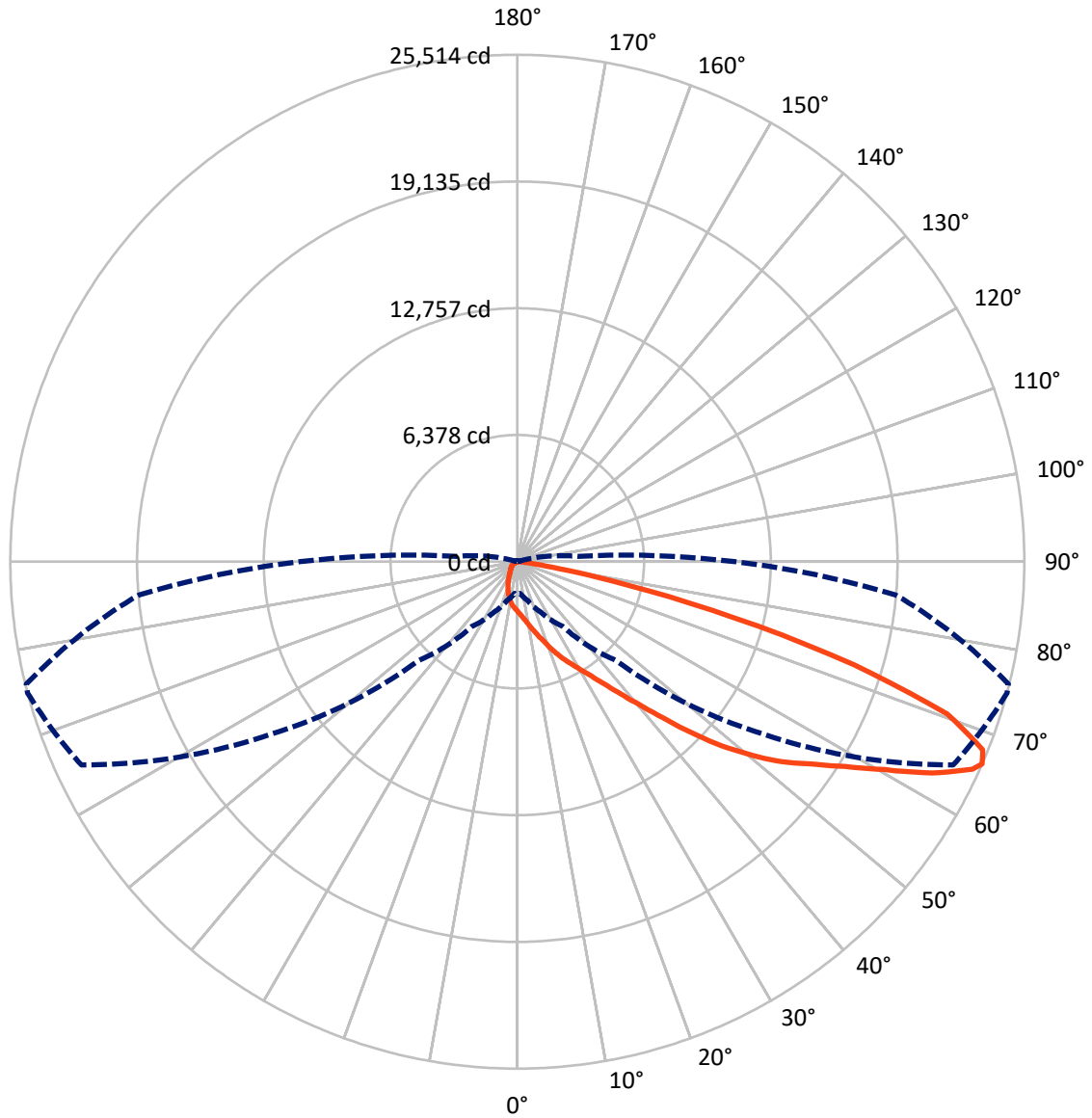
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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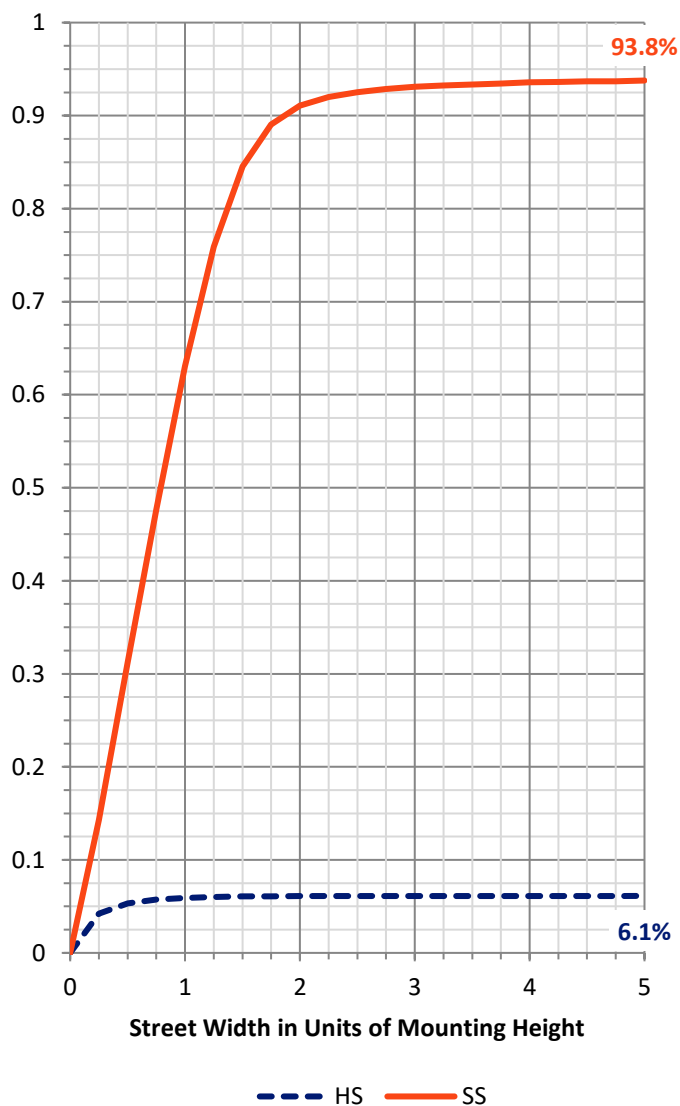
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1406.5	0.0	1406.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	21376.5	0.0	21376.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	22783.0	0.0	22783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.3	1.1
10°-20°	707.3	3.1
20°-30°	1221.3	5.4
30°-40°	2202.9	9.7
40°-50°	3979.6	17.5
50°-60°	6204.3	27.2
60°-70°	5893.8	25.9
70°-80°	2208.9	9.7
80°-90°	124.6	0.5
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°	22783.0	100.0
0°-180°	22783.0	100.0

Coefficient of Utilization



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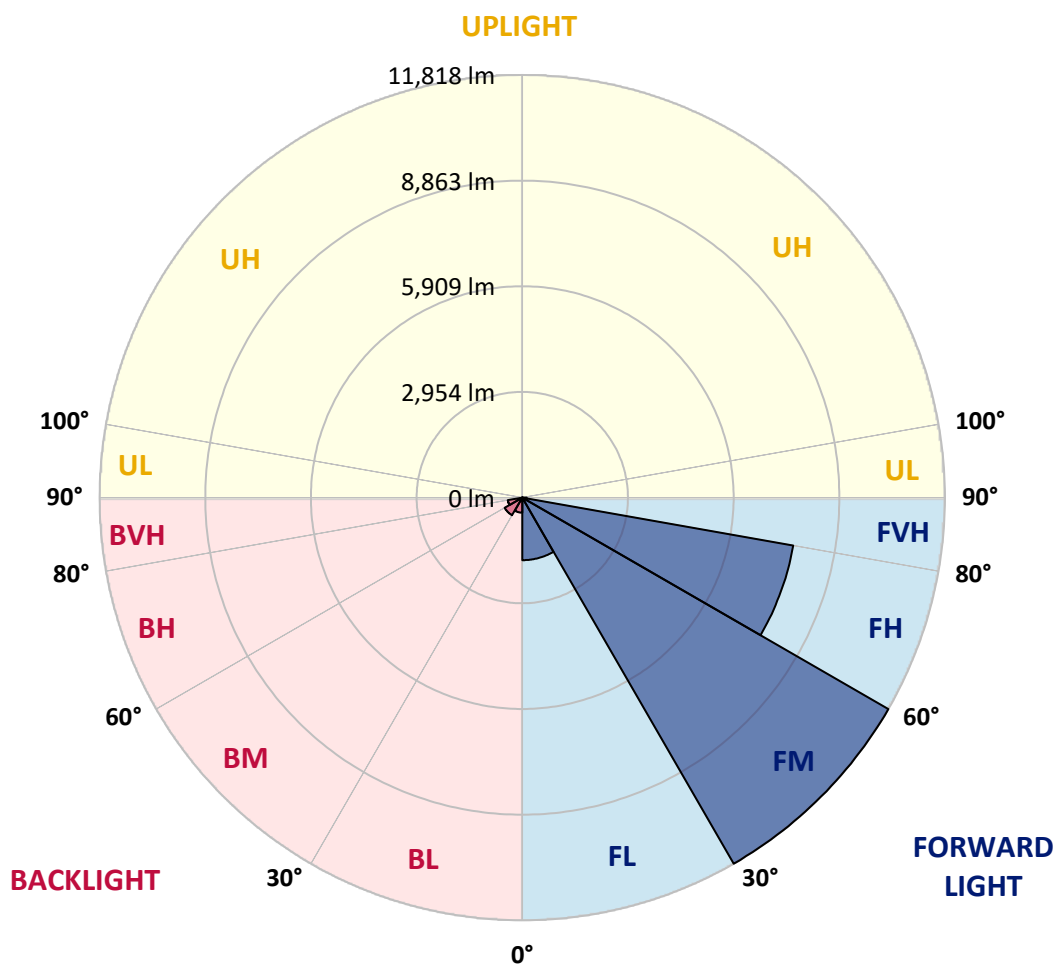
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1748.8	7.7			
FM (30°-60°)	11817.5	51.9			
FH (60°-80°)	7692.0	33.8			G4/12000
FVH (80°-90°)	118.2	0.5			G2/225
BL (0°-30°)	420.1	1.8	B1/500		
BM (30°-60°)	569.3	2.5	B1/1000		
BH (60°-80°)	410.7	1.8	B1/500		G1/500
BVH (80°-90°)	6.4	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2491.5	2491.5	2491.5	2491.5	2491.5	2491.5	2491.5	2491.5	2491.5	2491.5	2491.5
2.5°	2976.7	2939.7	2951.4	2934.6	2895.9	2838.6	2788.0	2715.6	2643.2	2631.4	2550.5
5°	3369.2	3359.1	3345.6	3296.8	3269.8	3182.2	3077.8	2953.1	2803.2	2776.2	2629.7
7.5°	3637.1	3632.0	3638.8	3613.5	3589.9	3510.7	3399.6	3229.4	2996.9	2981.8	2737.5
10°	3724.7	3738.2	3763.4	3803.9	3840.9	3815.7	3731.4	3519.2	3247.9	3204.1	2860.5
12.5°	3674.1	3689.3	3750.0	3857.8	3977.4	4046.4	4012.8	3857.8	3514.1	3478.7	2998.6
15°	3544.4	3563.0	3648.9	3815.7	4029.6	4225.0	4309.2	4198.1	3824.1	3766.8	3165.4
17.5°	3352.4	3379.3	3502.3	3723.0	4016.1	4353.0	4590.6	4553.5	4154.3	4100.4	3347.3
20°	3207.5	3227.7	3332.2	3584.9	3958.8	4423.8	4858.4	4962.9	4561.9	4469.3	3561.3
22.5°	3303.5	3310.3	3345.6	3497.3	3856.1	4442.3	5094.3	5389.1	4994.9	4912.3	3783.6
25°	3773.5	3706.2	3670.8	3637.1	3834.2	4425.5	5308.2	5833.8	5426.1	5338.5	4004.3
27.5°	4514.8	4484.4	4305.9	4066.7	4021.2	4447.4	5449.7	6255.0	5832.1	5737.8	4220.0
30°	5321.7	5269.5	5160.0	4809.6	4457.5	4602.4	5552.5	6664.3	6312.3	6187.6	4417.1
32.5°	6062.9	6096.6	5933.2	5572.7	5165.0	4932.6	5685.6	7110.8	6863.1	6708.1	4646.2
35°	6927.1	6994.5	6743.5	6398.2	5921.4	5528.9	5945.0	7614.5	7562.2	7366.8	4999.9
37.5°	7804.8	7845.3	7692.0	7206.8	6777.2	6287.0	6433.5	8236.1	8423.1	8256.3	5422.8
40°	8542.7	8598.3	8485.4	8054.1	7595.9	7164.7	7142.8	8913.3	9447.3	9275.5	6052.8
42.5°	9107.0	9149.1	9152.5	8847.6	8434.9	8239.5	8047.4	9777.5	10731.0	10532.2	6783.9
45°	9819.6	9880.3	9844.9	9637.7	9329.4	9294.0	9194.6	10822.0	12267.4	12016.4	7732.4
47.5°	10921.4	10961.8	10874.2	10629.9	10316.6	10372.2	10313.2	11992.8	13834.1	13618.4	8714.5
50°	11686.2	11753.6	11878.2	11975.9	11748.5	11543.0	11367.8	13086.1	15321.6	15127.8	9718.5
52.5°	11677.8	11788.9	12183.1	12675.0	13172.0	13109.7	12606.0	14294.0	16741.7	16502.5	10661.9
55°	10891.0	11106.7	11686.2	12558.8	13935.1	14620.8	14391.7	15692.2	17968.1	17806.4	11755.2
57.5°	9267.1	9398.5	10203.7	11423.4	13508.9	15331.7	16460.4	17587.4	19438.8	19363.0	13453.3
60°	6233.1	6292.0	7328.1	8835.8	11500.9	14622.5	17976.5	19880.1	21249.7	21212.7	15436.1
62.5°	3571.4	3596.7	4348.0	5619.9	8183.9	12392.0	18104.6	22708.6	23421.2	23441.4	17730.6
65°	1922.1	1935.6	2542.1	3298.5	4979.7	8832.4	16280.1	24258.5	25176.6	25215.3	19152.4
66°	1659.3	1595.3	2023.2	2811.6	3962.2	7029.9	15126.2	24202.9	25513.5	25471.4	19101.9
67.5°	1261.8	1319.1	1615.5	2161.4	2936.3	4998.3	12488.1	23126.4	25257.4	25126.0	18325.2
70°	903.0	926.5	1150.6	1541.4	1999.6	2742.6	7980.0	19208.0	22956.3	22779.4	15965.1
72.5°	582.9	608.1	815.4	1115.2	1445.4	1497.6	4467.6	13877.9	17698.6	17673.3	12023.1
75°	416.1	439.7	539.1	798.5	1086.6	926.5	2151.3	9353.0	11251.5	11175.7	7437.6
77.5°	301.5	313.3	360.5	522.2	776.6	663.7	997.3	4994.9	5601.3	5865.8	3286.7
80°	173.5	183.6	251.0	318.4	525.6	453.2	476.7	2004.7	2067.0	1967.6	1027.6
82.5°	85.9	97.7	149.9	217.3	328.5	304.9	219.0	603.1	636.8	619.9	259.4
85°	20.2	25.3	84.2	143.2	160.0	136.5	106.1	176.9	219.0	213.9	99.4
87.5°	1.7	3.4	30.3	25.3	27.0	45.5	37.1	45.5	70.8	65.7	35.4
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°	2491.5	2491.5	2491.5	2491.5	2491.5	2491.5	2491.5	2491.5	2491.5	2491.5	2491.5
2.5°	2513.4	2481.4	2388.8	2297.8	2222.0	2142.8	2070.4	2028.3	2011.4	1992.9	2001.3
5°	2548.8	2471.3	2284.3	2122.6	1964.3	1829.5	1721.7	1652.6	1618.9	1613.9	1605.4
7.5°	2596.0	2462.9	2173.2	1920.5	1713.3	1563.3	1440.3	1341.0	1310.6	1283.7	1261.8
10°	2653.3	2447.7	2035.0	1708.2	1487.5	1298.8	1137.1	1019.2	958.5	941.7	953.5
12.5°	2713.9	2419.1	1890.1	1512.8	1258.4	1017.5	867.6	808.6	791.8	785.0	786.7
15°	2774.6	2383.7	1738.5	1324.1	1002.3	812.0	742.9	727.8	721.0	717.6	714.3
17.5°	2830.2	2326.5	1568.4	1140.5	812.0	694.1	668.8	655.3	641.8	636.8	628.4
20°	2895.9	2260.8	1415.1	935.0	687.3	628.4	598.0	572.8	552.6	539.1	537.4
22.5°	2958.2	2176.5	1255.0	774.9	626.7	564.3	515.5	488.5	465.0	448.1	453.2
25°	2991.9	2073.8	1111.8	675.5	571.1	500.3	446.4	412.7	387.5	379.0	377.4
27.5°	2991.9	1947.4	972.0	618.3	520.5	443.1	387.5	355.5	338.6	326.8	328.5
30°	2968.3	1807.6	842.3	574.5	476.7	392.5	340.3	311.7	298.2	289.8	288.1
32.5°	2949.8	1674.5	731.1	532.3	431.3	348.7	303.2	281.3	267.9	259.4	259.4
35°	2978.4	1560.0	645.2	490.2	389.1	315.0	274.6	254.4	240.9	234.2	232.5
37.5°	3054.2	1455.5	579.5	444.7	350.4	286.4	254.4	230.8	217.3	208.9	205.5
40°	3241.2	1396.5	530.7	402.6	313.3	262.8	230.8	208.9	192.0	183.6	181.9
42.5°	3541.1	1398.2	483.5	363.9	284.7	242.6	210.6	185.3	166.8	158.4	156.7
45°	3992.5	1462.2	446.4	326.8	259.4	220.7	188.7	161.7	144.9	136.5	136.5
47.5°	4533.3	1586.9	414.4	294.8	235.8	200.5	166.8	139.8	123.0	116.2	116.2
50°	5119.5	1748.6	382.4	261.1	215.6	178.6	143.2	121.3	107.8	102.8	102.8
52.5°	5717.6	1944.0	350.4	234.2	193.7	155.0	123.0	107.8	96.0	92.7	91.0
55°	6502.6	2193.4	316.7	205.5	170.1	133.1	109.5	94.3	80.9	75.8	74.1
57.5°	7710.5	2569.0	279.6	180.3	139.8	111.2	94.3	79.2	64.0	55.6	53.9
60°	9167.7	3027.3	240.9	158.4	112.9	91.0	75.8	60.6	47.2	37.1	35.4
62.5°	10532.2	3318.7	203.8	133.1	89.3	69.1	53.9	45.5	33.7	23.6	21.9
65°	11135.3	3221.0	168.5	107.8	70.8	48.9	35.4	32.0	20.2	10.1	8.4
66°	10934.8	3076.1	155.0	97.7	64.0	42.1	30.3	27.0	15.2	5.1	5.1
67.5°	10343.5	2734.1	134.8	84.2	55.6	33.7	23.6	20.2	8.4	1.7	0.0
70°	8862.8	2211.9	106.1	62.3	40.4	23.6	13.5	10.1	5.1	0.0	0.0
72.5°	6807.5	1647.6	84.2	47.2	28.6	13.5	6.7	3.4	5.1	0.0	0.0
75°	4171.1	941.7	65.7	35.4	18.5	8.4	5.1	0.0	5.1	1.7	0.0
77.5°	1851.4	422.8	43.8	23.6	13.5	6.7	3.4	0.0	3.4	1.7	0.0
80°	468.3	138.1	25.3	16.8	10.1	5.1	1.7	0.0	3.4	3.4	1.7
82.5°	128.0	50.5	18.5	13.5	8.4	5.1	1.7	0.0	3.4	3.4	3.4
85°	50.5	23.6	16.8	13.5	10.1	5.1	1.7	0.0	3.4	3.4	3.4
87.5°	23.6	16.8	16.8	15.2	11.8	5.1	1.7	0.0	3.4	1.7	3.4
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)