

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: P652408

Luminaire Tested: **GALN-SA5B-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19186.6 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

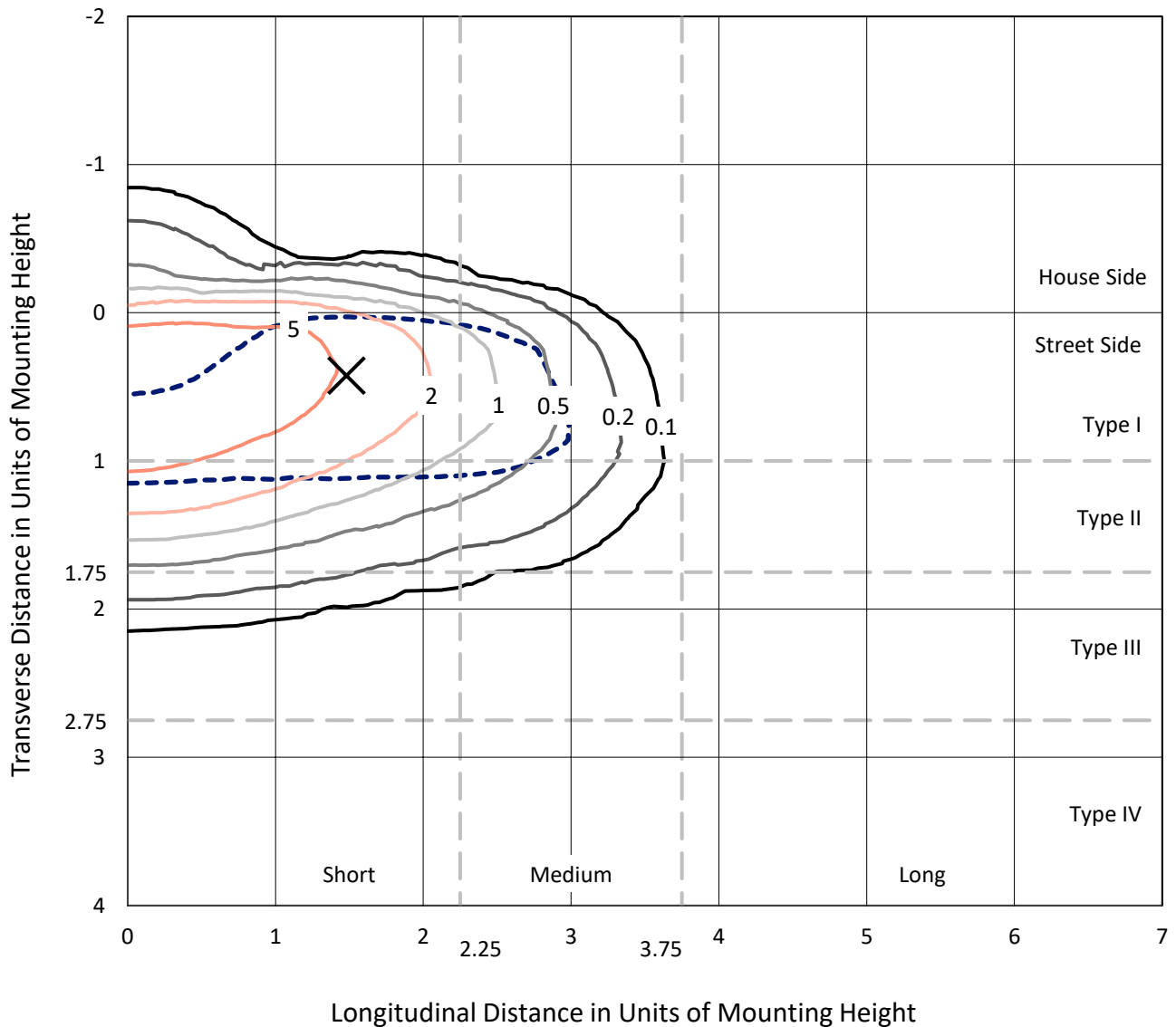
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652408
 CATALOG NUMBER: GALN-SA5B-840-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

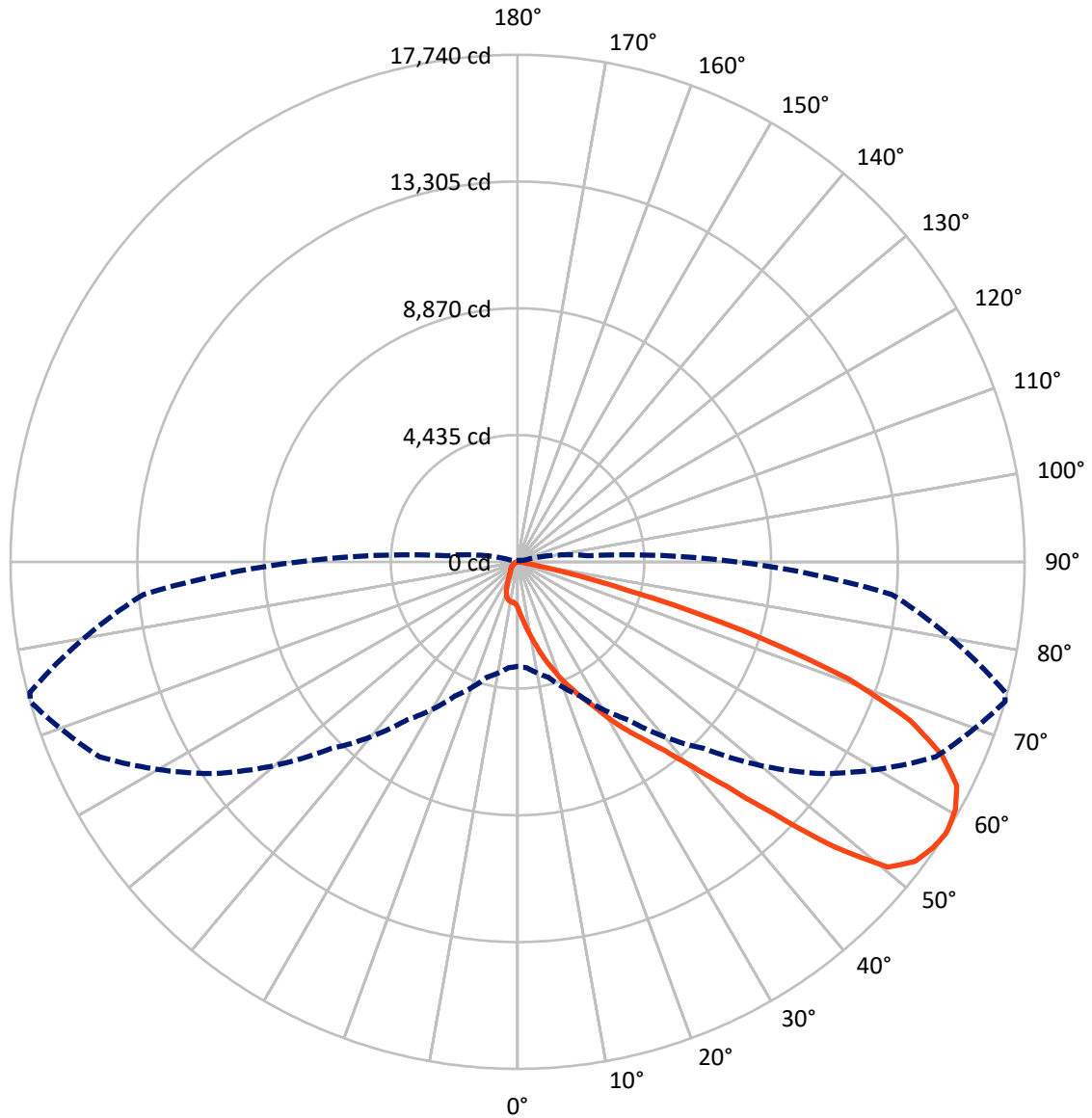
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

REPORT NUMBER: P652408
CATALOG NUMBER: GALN-SA5B-840-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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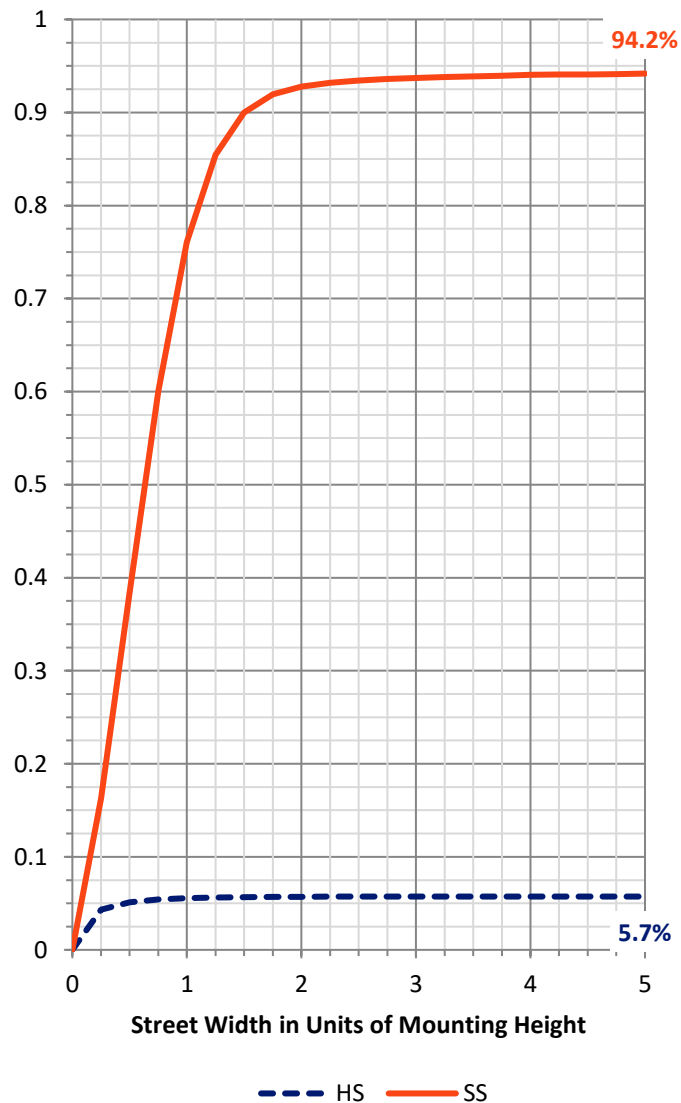
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1106.6	0.0	1106.6
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	18080.0	0.0	18080.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	19186.6	0.0	19186.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	1.0
10°-20°	764.5	4.0
20°-30°	1635.8	8.5
30°-40°	3006.6	15.7
40°-50°	4609.1	24.0
50°-60°	4875.8	25.4
60°-70°	3184.0	16.6
70°-80°	870.0	4.5
80°-90°	46.8	0.2
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°	19186.6	100.0
0°-180°	19186.6	100.0

Coefficient of Utilization

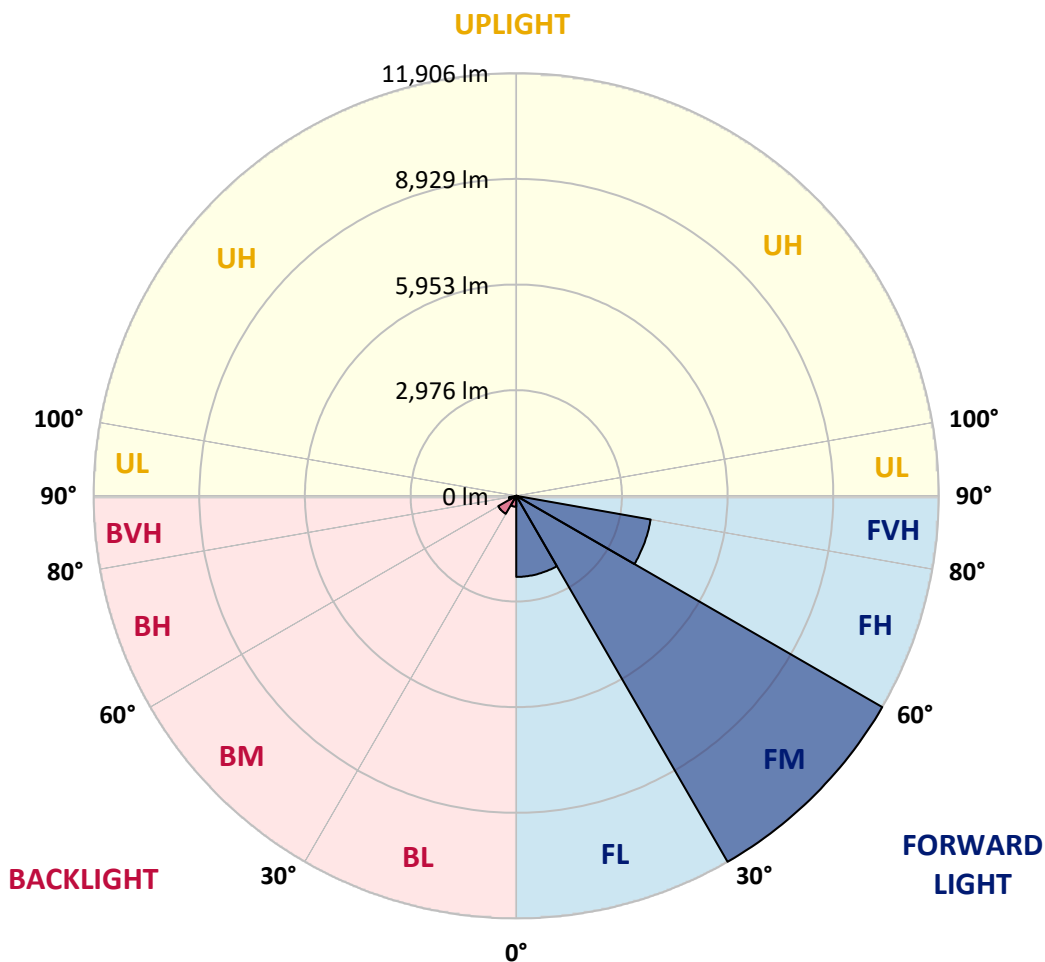


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2285.1	11.9			
FM (30°-60°)	11905.6	62.1			
FH (60°-80°)	3846.3	20.0			G2/5000
FVH (80°-90°)	43.0	0.2			G1/100
BL (0°-30°)	309.1	1.6	B1/500		
BM (30°-60°)	585.9	3.1	B1/1000		
BH (60°-80°)	207.8	1.1	B1/500		G1/500
BVH (80°-90°)	3.9	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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CATALOG NUMBER: GALN-SA5B-840-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8
2.5°	2351.4	2330.2	2287.8	2273.1	2210.9	2114.2	2029.4	1915.5	1825.4	1816.1	1707.6
5°	3148.8	3101.1	3081.3	2985.9	2836.2	2695.7	2454.6	2271.9	2061.2	2045.3	1826.7
7.5°	3917.1	3850.9	3831.0	3740.9	3566.1	3344.8	3032.2	2699.7	2365.9	2335.5	1987.0
10°	4473.4	4482.8	4447.0	4387.4	4245.6	4020.4	3635.0	3180.6	2705.0	2666.6	2167.2
12.5°	4872.2	4870.9	4877.5	4876.2	4800.7	4629.8	4224.4	3701.2	3078.6	3003.0	2373.8
15°	5131.9	5135.8	5155.7	5224.5	5232.5	5126.6	4788.7	4199.3	3511.8	3417.7	2597.7
17.5°	5394.2	5421.9	5453.7	5518.6	5576.9	5534.5	5296.1	4718.5	3903.8	3833.7	2837.4
20°	5827.3	5865.7	5847.2	5886.9	5917.4	5921.4	5737.2	5198.1	4379.4	4261.5	3111.7
22.5°	6520.1	6518.8	6471.2	6399.6	6340.0	6337.4	6170.4	5690.9	4811.3	4697.3	3387.2
25°	7395.8	7399.7	7307.0	7103.0	6954.6	6773.2	6581.1	6122.7	5273.6	5133.2	3677.4
27.5°	8399.9	8374.7	8234.3	7953.4	7659.3	7349.4	7072.6	6624.8	5763.7	5647.1	4009.8
30°	9302.0	9292.7	9128.5	8785.3	8398.6	8087.2	7685.9	7254.0	6398.2	6255.2	4382.1
32.5°	10141.9	10155.1	9927.2	9572.2	9198.7	8839.7	8415.8	7855.4	7020.8	6818.2	4787.4
35°	10797.6	10810.8	10575.0	10279.6	9895.5	9597.4	9193.4	8496.5	7635.5	7464.6	5253.7
37.5°	11147.3	11164.5	11028.0	10805.5	10565.7	10416.0	10039.9	9321.8	8382.7	8279.3	5804.8
40°	11213.5	11233.4	11173.8	11114.2	11100.9	11208.2	11098.3	10294.2	9418.5	9257.0	6626.1
42.5°	11014.8	11041.3	11067.8	11200.3	11470.5	11863.9	12246.8	11613.5	10752.5	10535.3	7630.2
45°	10492.9	10490.2	10594.9	10938.0	11543.4	12383.2	13446.9	13265.4	12570.0	12311.7	9049.0
47.5°	9600.0	9586.8	9813.3	10302.2	11245.3	12478.6	14425.9	15271.0	14889.6	14651.1	10573.7
50°	8239.6	8304.5	8660.9	9343.1	10504.8	12189.8	14727.9	16586.5	16793.1	16540.1	11805.6
52.5°	6646.0	6643.3	7202.3	8128.3	9407.9	11554.0	14517.3	16824.9	17411.7	17218.3	12412.3
55°	4918.6	4953.0	5534.5	6468.5	7983.9	10393.5	13829.7	16579.8	17647.5	17511.1	12812.4
57°	3658.8	3719.7	4186.0	5174.3	6744.0	9245.0	12914.4	16141.4	17740.3	17666.0	13144.9
57.5°	3415.0	3417.7	3872.0	4770.2	6381.0	8803.9	12652.1	15958.6	17737.6	17696.6	13199.2
60°	2102.2	2168.5	2482.5	3224.3	4670.8	6871.1	10894.2	14908.1	17599.9	17659.5	13431.0
62.5°	1258.5	1286.3	1490.3	1943.3	3011.0	5015.3	8915.2	13563.5	17240.8	17422.3	13415.1
65°	809.4	816.0	908.7	1176.3	1882.4	3389.9	6869.9	11787.1	16312.3	16646.1	12890.6
67.5°	625.3	635.9	673.0	772.3	1091.5	2111.6	4859.0	9891.5	14810.0	15240.6	11618.8
70°	555.1	560.4	573.6	605.4	722.0	1192.2	3023.0	7726.9	12281.2	12403.1	9092.6
72.5°	453.0	467.6	508.7	519.3	572.3	744.5	1682.3	5186.2	8251.5	8282.0	5086.8
75°	351.0	353.7	414.6	445.1	482.2	512.7	751.1	2614.9	3963.5	3751.5	1960.5
77.5°	262.3	274.3	302.0	340.4	393.4	366.9	336.5	985.6	1230.6	1208.1	569.6
80°	168.2	174.8	210.6	255.7	306.0	239.8	189.4	288.8	270.2	278.2	136.4
82.5°	84.8	86.1	135.1	208.0	194.7	120.5	119.3	117.9	100.7	99.3	63.6
85°	9.3	19.8	87.5	119.3	87.5	39.8	55.7	54.3	53.0	54.3	37.1
87.5°	1.3	1.3	14.5	17.2	11.9	13.3	15.9	17.2	21.2	19.8	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652408

CATALOG NUMBER: GALN-SA5B-840-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8	1606.8
2.5°	1654.5	1601.5	1503.5	1409.4	1339.3	1294.2	1235.9	1214.7	1184.3	1180.3	1165.7
5°	1726.1	1625.4	1454.5	1319.4	1210.8	1128.6	1057.1	997.5	949.8	939.2	944.5
7.5°	1828.1	1678.4	1440.0	1255.8	1104.8	964.4	850.4	780.3	729.9	711.3	714.0
10°	1943.3	1748.6	1437.3	1188.2	957.7	785.6	661.0	598.8	569.6	559.0	547.1
12.5°	2079.8	1829.4	1430.6	1083.6	796.2	626.5	537.8	500.7	472.9	465.0	465.0
15°	2233.4	1915.5	1398.8	953.8	646.5	518.0	458.3	429.2	419.9	412.0	412.0
17.5°	2393.7	2000.3	1332.6	793.5	536.5	443.8	406.7	389.5	376.2	366.9	366.9
20°	2576.5	2083.7	1226.7	651.8	453.0	396.1	366.9	347.1	336.5	328.5	325.9
22.5°	2750.1	2151.3	1091.5	535.2	394.8	356.3	329.8	308.6	298.1	294.1	294.1
25°	2930.2	2192.4	928.6	442.5	360.3	323.2	294.1	276.9	267.6	264.9	263.7
27.5°	3105.1	2216.2	785.6	386.8	328.5	292.8	264.9	251.7	242.5	239.8	241.1
30°	3317.0	2220.2	646.5	347.1	300.7	263.7	238.4	226.5	221.2	218.6	217.2
32.5°	3531.6	2214.9	543.1	323.2	274.3	238.4	217.2	208.0	204.0	200.0	200.0
35°	3772.7	2187.1	462.3	299.4	249.0	217.2	198.7	190.7	185.4	181.5	180.1
37.5°	4072.1	2172.5	416.0	272.9	226.5	197.4	180.1	172.2	168.2	162.9	161.6
40°	4543.7	2237.4	401.4	249.0	204.0	178.8	162.9	153.7	148.4	143.1	141.7
42.5°	5131.9	2351.4	377.5	225.2	184.1	161.6	145.7	135.1	125.8	119.3	116.6
45°	5893.6	2501.0	340.4	200.0	166.9	143.1	128.5	115.2	103.4	98.1	96.7
47.5°	6692.3	2645.4	307.3	180.1	148.4	127.2	111.3	96.7	86.1	82.2	80.8
50°	7182.5	2674.5	286.1	157.6	129.9	109.9	94.0	80.8	74.2	70.2	70.2
52.5°	7406.4	2628.2	257.0	137.8	112.6	96.7	80.8	70.2	66.3	63.6	62.2
55°	7562.7	2556.6	218.6	119.3	96.7	82.2	71.6	63.6	58.3	55.7	54.3
57°	7654.0	2459.9	189.4	104.6	83.4	71.6	63.6	56.9	51.6	46.3	46.3
57.5°	7658.1	2422.8	181.5	103.4	79.5	68.9	62.2	55.7	49.0	43.7	42.4
60°	7540.2	2168.5	145.7	87.5	63.6	58.3	51.6	43.7	34.5	29.2	27.8
62.5°	7161.3	1845.3	120.5	74.2	51.6	45.1	37.1	33.1	23.9	17.2	17.2
65°	6587.7	1496.9	103.4	59.6	42.4	33.1	25.1	23.9	14.5	8.0	6.6
67.5°	5758.4	1165.7	87.5	49.0	35.7	23.9	17.2	15.9	8.0	2.7	0.0
70°	4387.4	794.8	72.8	39.8	26.5	17.2	11.9	9.3	5.3	1.3	0.0
72.5°	2528.8	437.2	61.0	30.4	19.8	13.3	9.3	5.3	5.3	0.0	0.0
75°	903.4	188.1	46.3	22.5	15.9	10.6	6.6	2.7	4.0	1.3	0.0
77.5°	287.5	100.7	30.4	17.2	13.3	8.0	5.3	2.7	2.7	1.3	0.0
80°	84.8	53.0	18.6	14.5	9.3	6.6	4.0	1.3	2.7	1.3	0.0
82.5°	46.3	26.5	14.5	10.6	9.3	5.3	4.0	1.3	1.3	1.3	0.0
85°	23.9	15.9	11.9	10.6	9.3	5.3	4.0	1.3	0.0	1.3	1.3
87.5°	13.3	11.9	11.9	10.6	9.3	6.6	4.0	1.3	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)