

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: P652091

Luminaire Tested: **GALN-SA8A-840-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652091  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 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: 22466.5 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

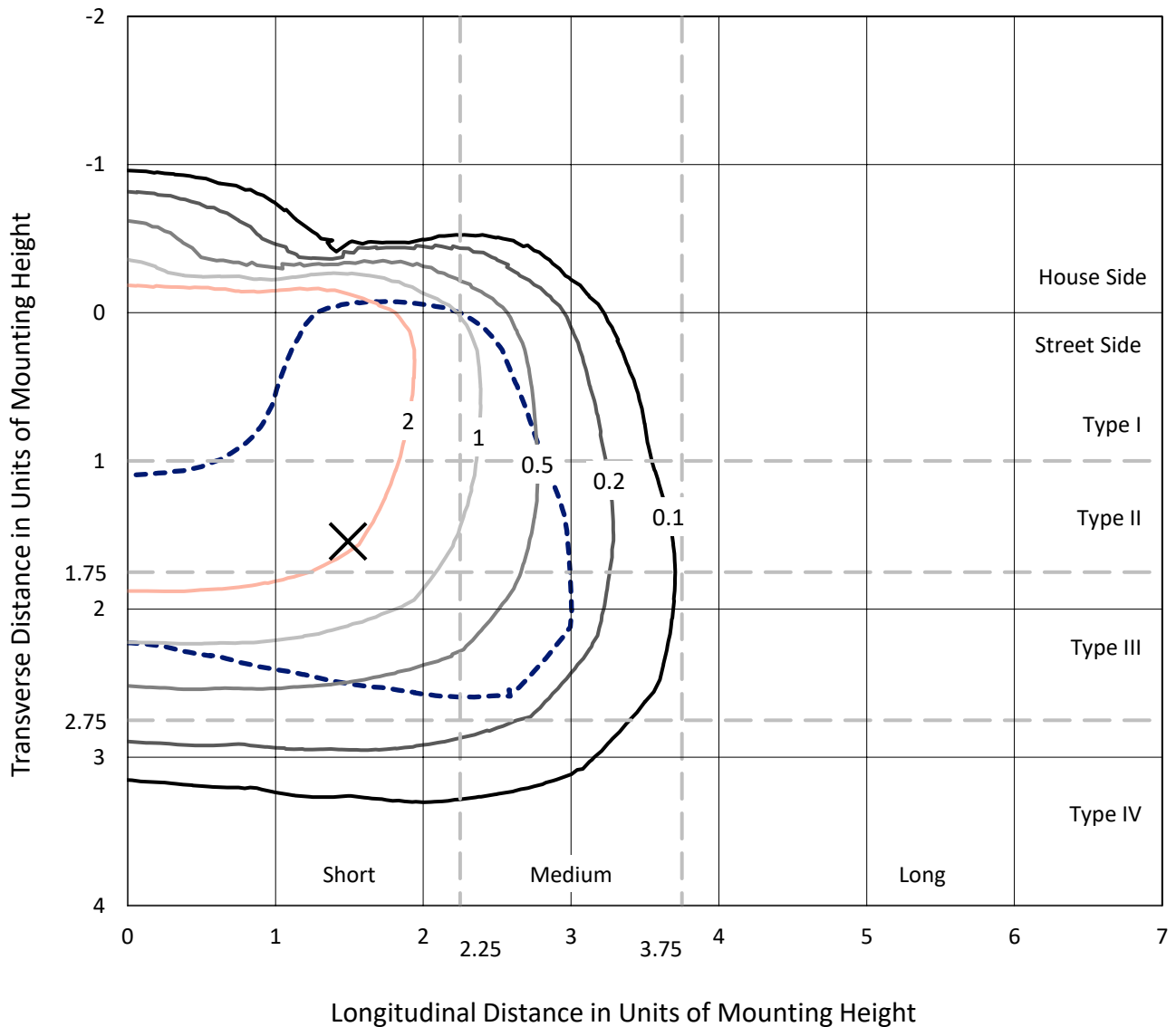
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

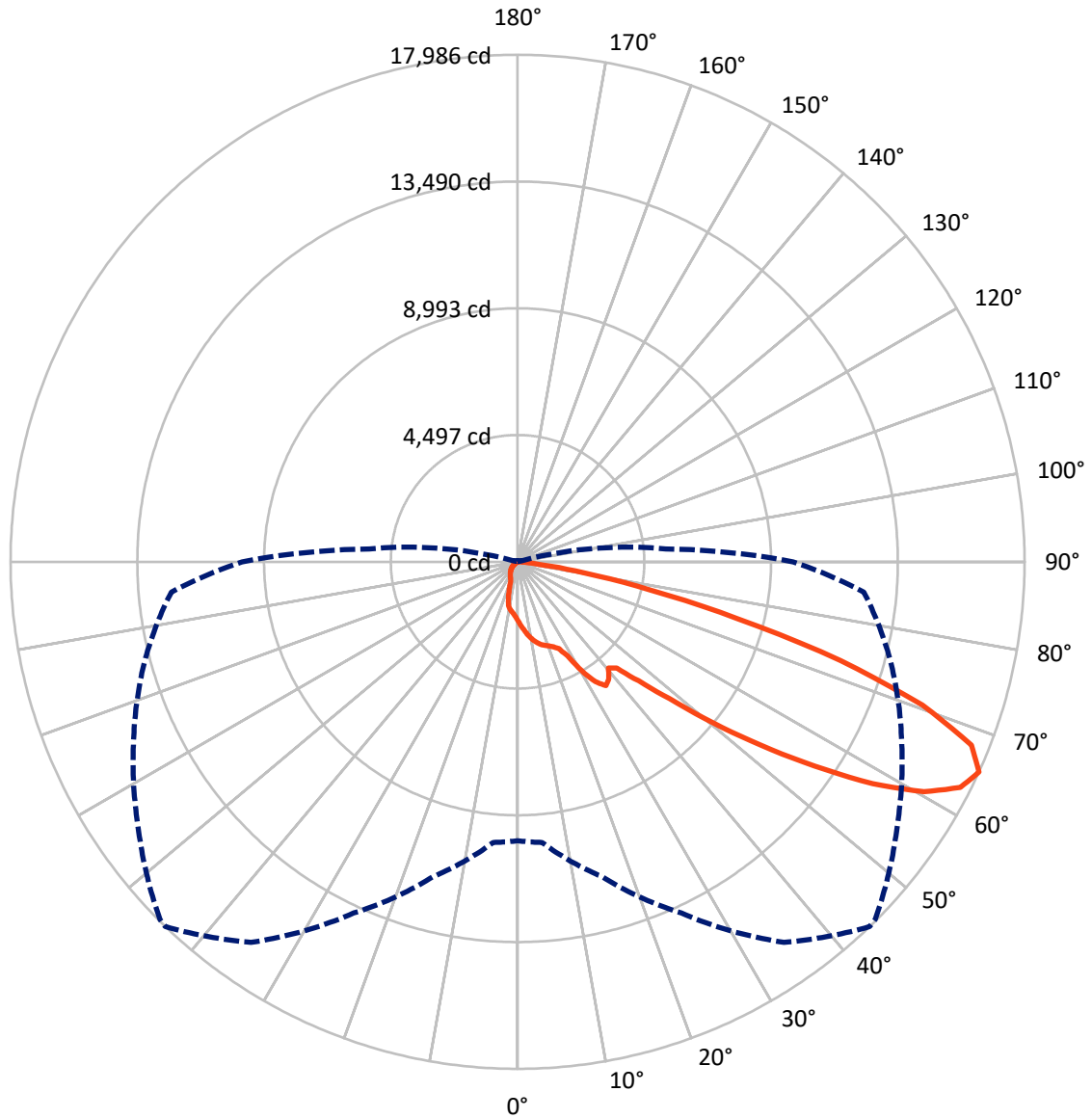
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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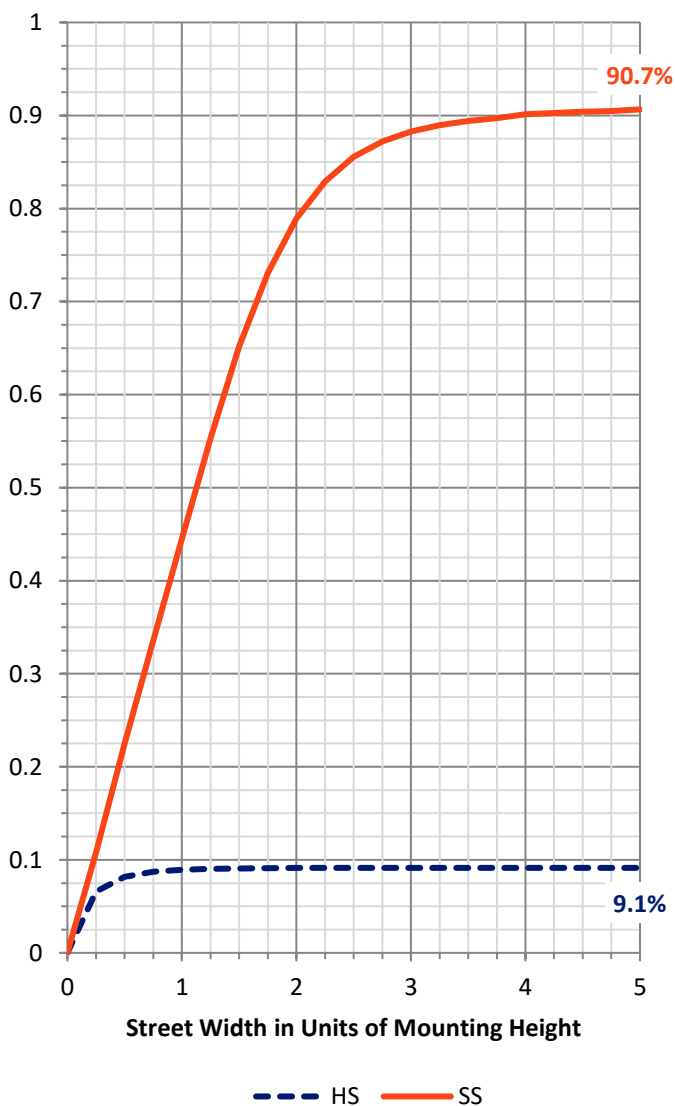
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2069.9	0.0	2069.9
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	20396.5	0.0	20396.5
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	22466.5	0.0	22466.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.0	0.9
10°-20°	625.9	2.8
20°-30°	1061.3	4.7
30°-40°	1764.6	7.9
40°-50°	3081.1	13.7
50°-60°	6019.3	26.8
60°-70°	6983.8	31.1
70°-80°	2543.2	11.3
80°-90°	179.2	0.8
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°	22466.5	100.0
0°-180°	22466.5	100.0

**Coefficient of Utilization**



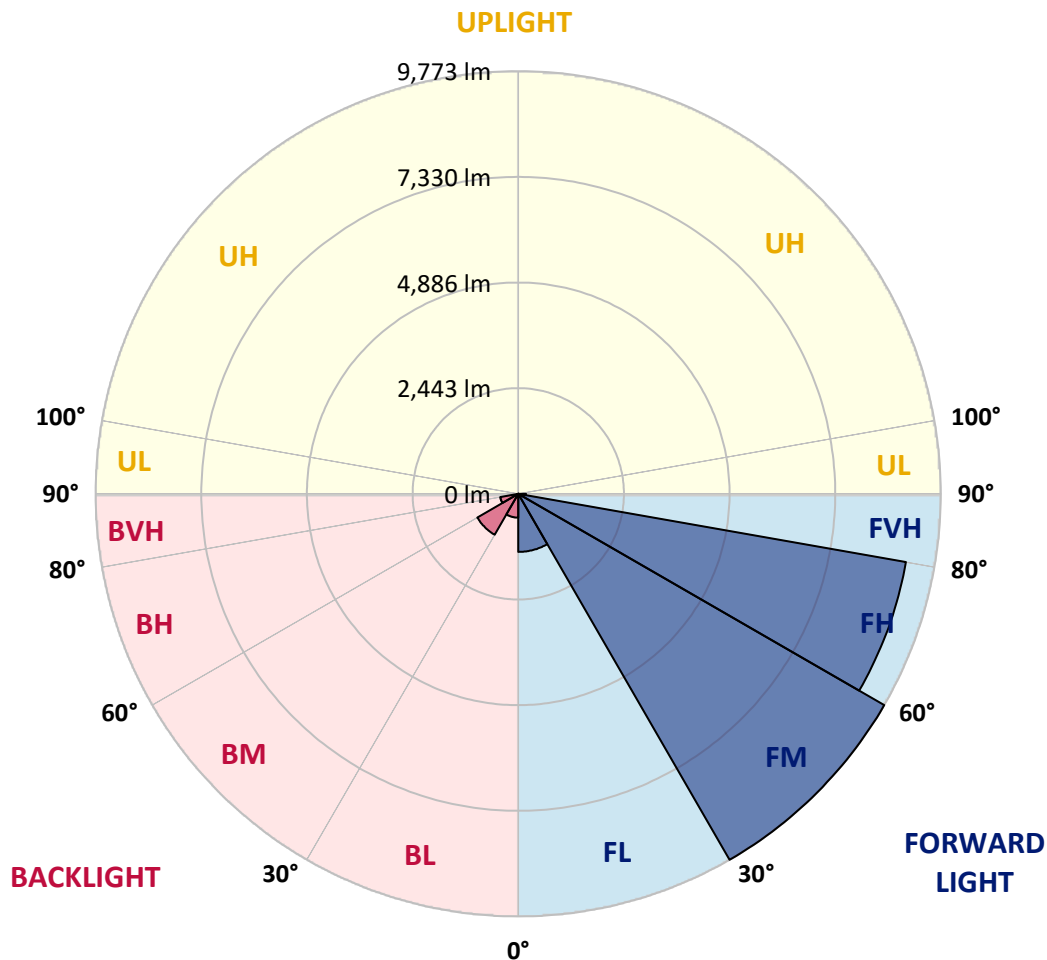
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1343.7	6.0			
FM (30°-60°)	9773.0	43.5			
FH (60°-80°)	9103.1	40.5			G4/12000
FVH (80°-90°)	176.8	0.8			G2/225
BL (0°-30°)	551.5	2.5	B2/1000		
BM (30°-60°)	1092.1	4.9	B2/2500		
BH (60°-80°)	423.9	1.9	B1/500		G1/500
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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0
2.5°	2353.6	2343.3	2338.1	2310.7	2290.1	2264.3	2264.3	2231.8	2194.0	2152.8	2115.0
5°	2616.3	2599.1	2576.8	2552.8	2504.7	2436.0	2436.0	2367.3	2288.4	2218.0	2140.8
7.5°	2868.7	2853.2	2815.4	2769.1	2690.1	2617.9	2612.8	2513.2	2418.9	2312.4	2202.6
10°	3090.1	3078.1	3045.4	2956.2	2873.8	2779.3	2777.7	2666.1	2556.2	2425.7	2290.1
12.5°	3244.6	3246.3	3203.4	3117.6	3011.1	2921.9	2915.0	2805.1	2690.1	2549.3	2382.8
15°	3354.5	3354.5	3309.8	3213.7	3117.6	3038.6	3031.7	2935.6	2817.1	2664.4	2484.1
17.5°	3385.4	3395.6	3347.6	3261.7	3184.5	3115.8	3114.1	3033.4	2939.0	2791.4	2587.1
20°	3373.3	3383.7	3345.9	3278.9	3225.7	3186.2	3181.1	3148.5	3060.9	2921.9	2696.9
22.5°	3347.6	3357.9	3330.4	3290.9	3265.2	3277.2	3268.6	3296.1	3249.7	3081.5	2827.4
25°	3352.7	3363.1	3342.5	3320.1	3342.5	3416.2	3438.6	3557.0	3515.8	3284.1	2968.2
27.5°	3514.1	3534.7	3505.5	3515.8	3594.8	3766.5	3809.4	4013.7	3831.7	3541.6	3188.0
30°	3872.9	3859.2	3804.3	3854.1	4128.7	4492.6	4480.6	4448.0	4163.0	3838.6	3448.9
32.5°	4199.1	4187.1	4183.6	4398.3	4896.0	5072.9	5064.3	4748.5	4460.0	4178.5	3706.4
35°	4331.2	4284.9	4274.6	4794.8	5627.4	5393.9	5340.7	4872.0	4820.5	4549.3	3969.0
37.5°	4729.5	4696.9	4537.3	4860.1	5335.6	5258.3	5217.1	5084.9	5205.1	4877.2	4266.1
40°	5550.2	5459.2	5315.0	4999.1	4921.8	4954.4	4995.6	5357.8	5660.0	5325.2	4662.6
42.5°	6569.9	6549.3	6281.4	5692.6	5114.1	5158.7	5211.9	5927.8	6314.1	5999.9	5309.8
45°	7793.9	7823.1	7436.8	6741.5	5982.8	6020.6	6097.8	6769.0	7199.9	7048.8	6327.9
47.5°	8906.4	8884.0	8753.5	8030.8	7330.4	7246.2	7371.5	7848.8	8425.6	8449.7	7591.3
50°	10025.6	10144.1	9950.0	9666.8	9146.6	8969.9	8923.5	9157.0	10035.9	9920.9	9108.9
52.5°	11634.1	11696.0	11332.1	11259.9	11378.4	10805.0	10758.7	10815.3	11601.6	11206.7	10245.3
55°	12645.4	12609.3	12473.6	13036.8	13505.4	12789.5	12731.1	12502.8	12901.1	12114.9	11338.9
57.5°	12964.6	13016.2	13332.0	14350.0	15459.0	14851.3	14744.8	14095.9	13838.4	12961.2	12344.9
60°	12822.1	12916.6	13598.1	15112.3	16650.5	16559.5	16468.5	15378.4	14511.4	13668.5	13050.5
62.5°	11807.6	11939.8	13029.9	14976.6	17053.9	17622.1	17508.8	16178.3	14959.5	14011.8	13174.1
65°	9895.1	9993.0	11558.6	13745.7	16480.5	17986.0	17944.8	16428.9	15029.8	13697.7	12327.7
67.5°	7054.0	7387.0	8837.6	11584.4	14784.4	17364.5	17434.9	16128.5	14368.9	12339.7	10209.3
70°	4434.3	4660.9	5701.2	8293.4	11852.2	15234.1	15465.9	14753.4	12470.2	9618.8	6834.2
72.5°	2115.0	2283.2	3024.8	5249.7	8365.5	11986.1	12169.8	12111.4	9642.8	6060.0	3526.1
75°	942.5	1006.0	1443.7	2679.8	5400.8	8056.5	8532.1	8611.1	6025.7	2964.8	1371.7
77.5°	480.7	482.4	676.4	1297.8	2696.9	4806.8	4901.2	5177.6	3266.9	1306.4	477.3
80°	255.8	273.0	358.8	612.8	1399.1	2367.3	2355.3	2588.8	1448.9	640.3	159.6
82.5°	115.0	127.1	202.6	321.0	683.2	897.9	968.2	1059.2	621.4	408.6	70.4
85°	34.3	41.2	99.6	161.4	247.2	259.2	290.1	374.2	352.0	290.1	36.1
87.5°	5.1	5.1	41.2	44.7	36.1	46.3	48.1	53.2	113.3	106.5	18.9
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°	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0	2091.0
2.5°	2094.4	2082.4	2039.4	2003.4	1972.5	1953.6	1931.3	1917.6	1910.7	1905.5	1907.3
5°	2103.0	2073.8	2000.0	1941.6	1897.0	1848.9	1816.3	1797.4	1788.8	1775.1	1775.1
7.5°	2151.0	2104.7	2001.7	1912.4	1835.1	1770.0	1708.2	1685.8	1670.4	1666.9	1663.5
10°	2219.7	2161.4	2020.6	1897.0	1787.1	1697.8	1610.3	1533.1	1472.9	1436.8	1431.7
12.5°	2305.5	2221.4	2049.8	1886.7	1745.9	1588.0	1356.2	1200.0	1095.2	1062.7	1067.8
15°	2384.5	2293.5	2079.0	1878.1	1670.4	1316.8	1054.0	875.6	822.3	817.1	818.9
17.5°	2478.9	2370.8	2113.3	1866.1	1462.7	1006.0	782.8	734.8	745.0	762.2	760.5
20°	2576.8	2453.2	2154.5	1793.9	1167.4	757.1	691.8	697.0	712.4	727.9	731.3
22.5°	2681.5	2547.6	2202.6	1620.6	891.0	659.3	655.8	662.6	678.1	695.3	698.7
25°	2825.7	2666.1	2238.6	1394.0	674.7	609.5	616.3	628.3	642.0	660.9	664.4
27.5°	3011.1	2825.7	2257.5	1098.7	583.7	564.8	566.5	583.7	600.8	618.1	618.1
30°	3251.5	3016.2	2219.7	830.9	539.1	521.8	515.0	525.3	547.7	564.8	566.5
32.5°	3466.0	3196.6	2120.2	635.2	506.5	482.4	465.2	466.9	475.5	485.8	487.5
35°	3680.6	3371.7	1950.2	533.9	472.1	444.6	418.9	405.1	398.3	393.2	398.3
37.5°	3955.3	3589.6	1723.5	485.8	442.9	408.6	372.6	343.4	319.3	303.9	307.3
40°	4308.9	3891.8	1455.8	454.9	415.5	374.2	326.1	288.4	247.2	233.5	226.6
42.5°	4892.6	4350.2	1174.2	429.2	388.0	338.2	278.1	226.6	188.8	175.1	178.5
45°	5814.5	4928.7	904.7	401.7	360.5	298.7	233.5	178.5	147.6	140.8	144.2
47.5°	7036.8	5677.2	697.0	370.8	326.1	255.8	183.7	140.8	121.9	120.2	118.4
50°	8187.1	6374.2	582.0	336.5	285.0	212.9	151.0	118.4	106.5	104.7	104.7
52.5°	9227.4	6873.7	473.8	297.0	240.4	175.1	127.1	104.7	94.4	89.2	89.2
55°	10152.6	7199.9	384.5	248.9	188.8	139.0	109.8	94.4	82.4	75.5	73.8
57.5°	10851.3	7239.4	288.4	199.1	140.8	108.2	94.4	82.4	68.7	60.0	56.7
60°	11150.1	6897.8	212.9	151.0	104.7	85.9	75.5	66.9	51.5	42.9	41.2
62.5°	10849.7	6233.4	157.9	115.0	80.7	63.5	53.2	49.8	36.1	25.7	24.1
65°	9773.3	5273.7	125.3	87.5	60.0	46.3	34.3	32.6	22.3	12.0	10.3
67.5°	7830.0	4130.4	99.6	65.3	42.9	30.9	22.3	20.6	12.0	3.4	3.4
70°	5091.8	2640.3	80.7	48.1	27.5	20.6	13.7	10.3	6.9	1.7	0.0
72.5°	2518.5	1234.3	65.3	37.8	18.9	10.3	5.1	3.4	5.1	0.0	0.0
75°	976.8	439.5	48.1	25.7	10.3	5.1	3.4	0.0	1.7	0.0	0.0
77.5°	324.5	145.9	29.2	13.7	6.9	3.4	0.0	0.0	0.0	0.0	0.0
80°	120.2	56.7	15.5	8.6	3.4	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	48.1	22.3	10.3	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.1	13.7	6.9	5.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.2	10.3	6.9	5.1	3.4	1.7	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)