

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: P454851

Luminaire Tested: **GALN-SA6A-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16651 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

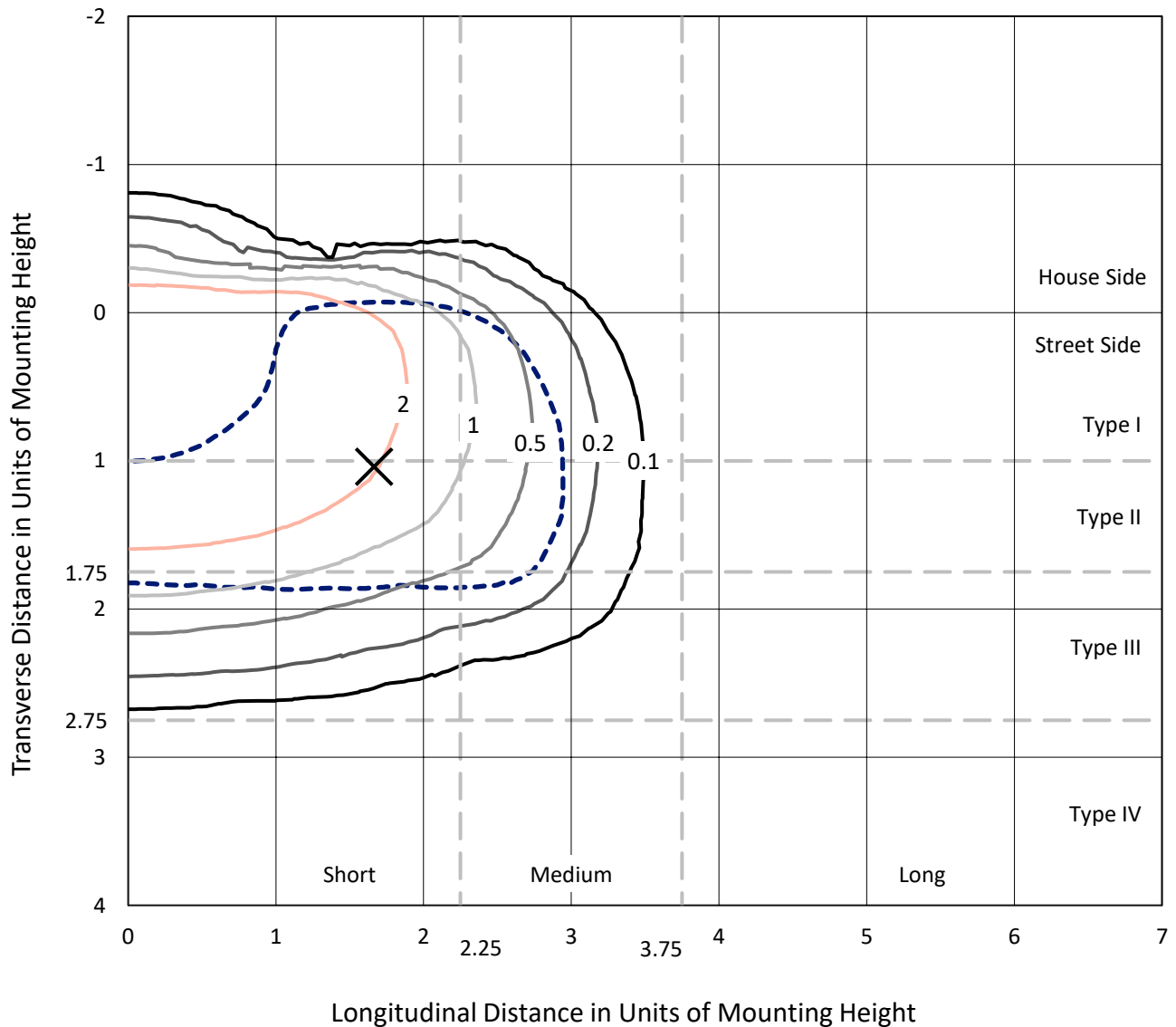
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454851
 CATALOG NUMBER: GALN-SA6A-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

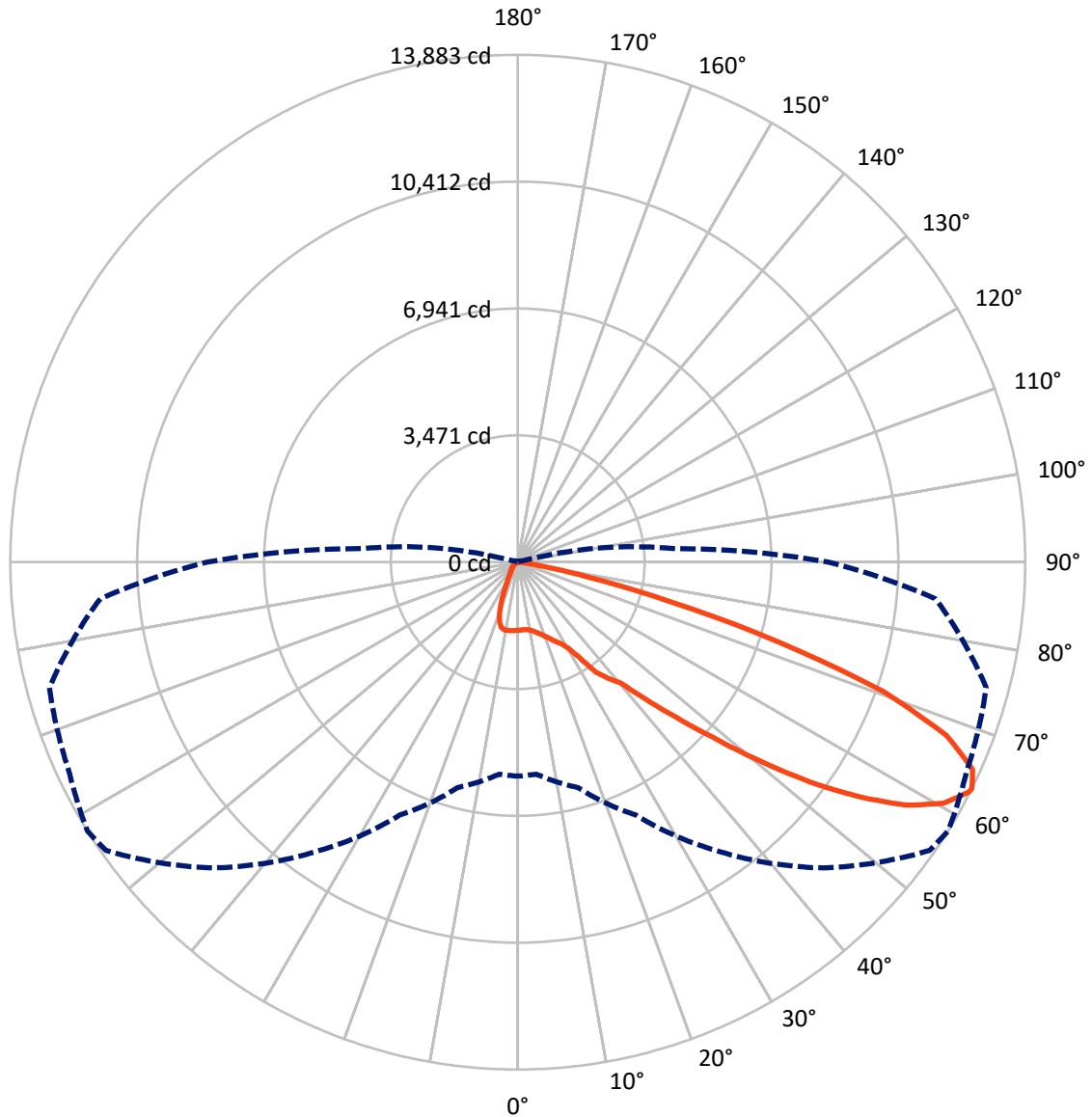
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

REPORT NUMBER: P454851
CATALOG NUMBER: GALN-SA6A-727-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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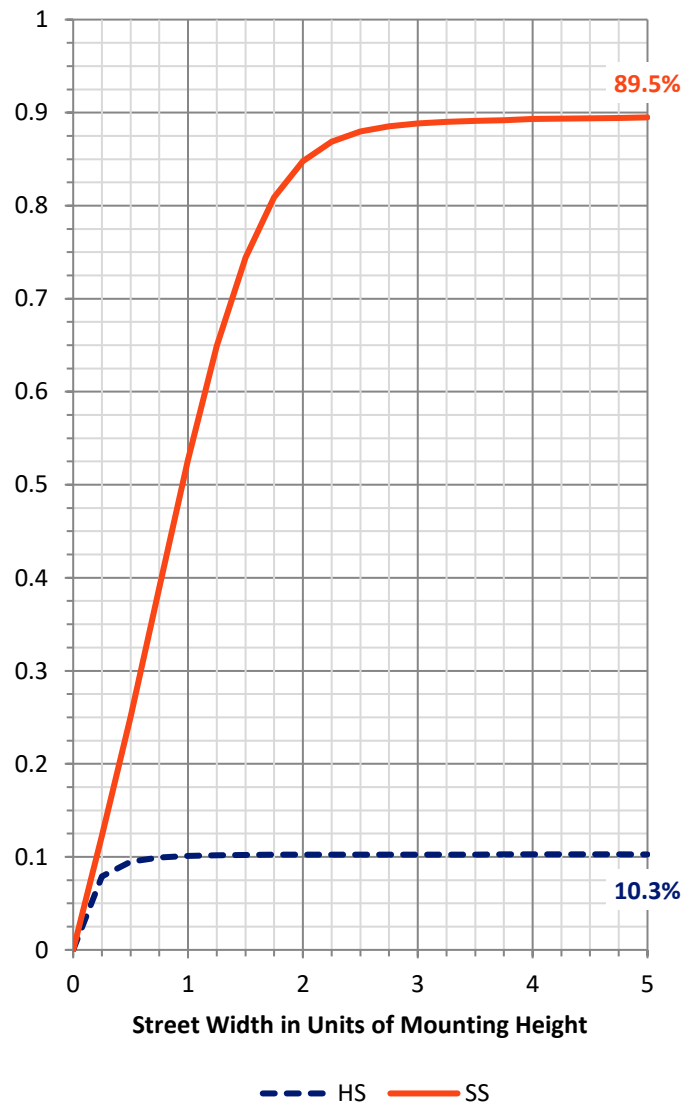
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1724.1	0.0	1724.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14926.9	0.0	14926.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	16651.0	0.0	16651.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	1.0
10°-20°	475.3	2.9
20°-30°	824.9	5.0
30°-40°	1515.9	9.1
40°-50°	2853.6	17.1
50°-60°	4880.8	29.3
60°-70°	4673.4	28.1
70°-80°	1191.7	7.2
80°-90°	60.9	0.4
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°	16651.0	100.0
0°-180°	16651.0	100.0



REPORT NUMBER: P454851

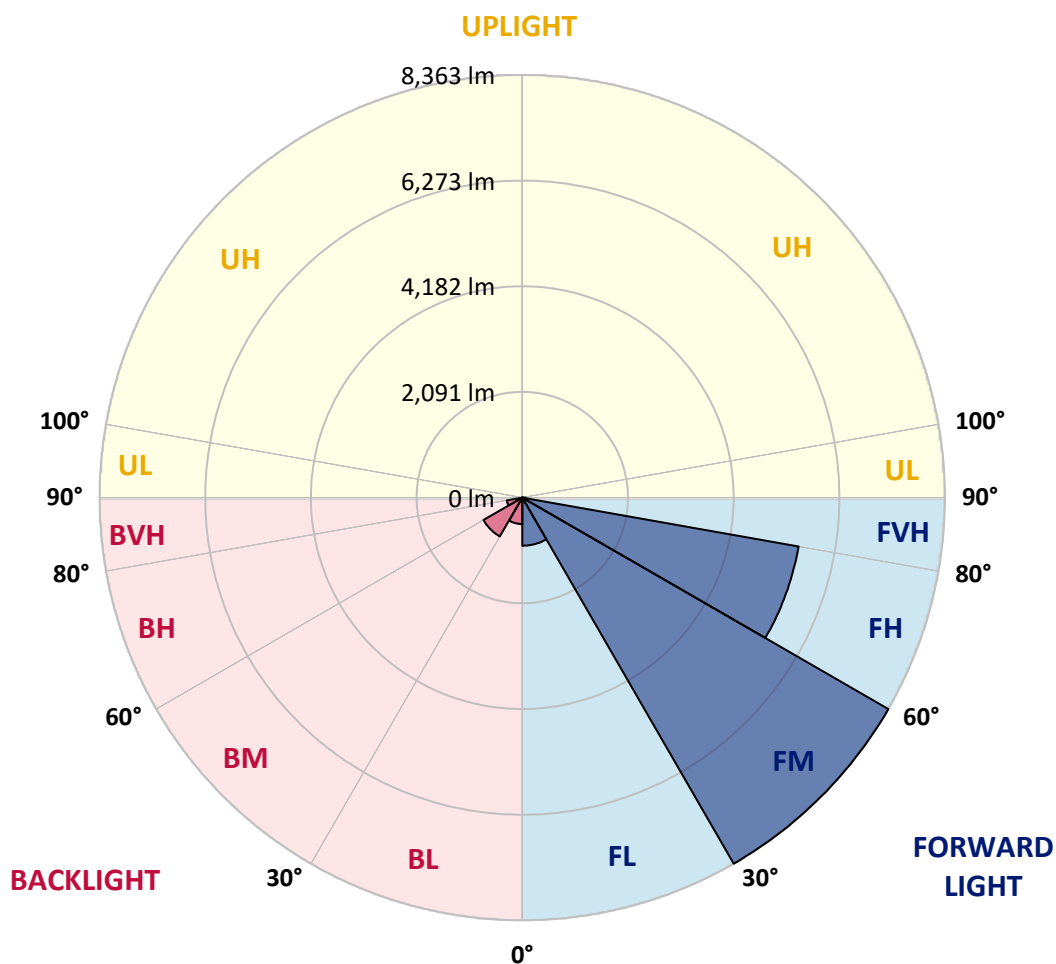
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	951.8	5.7			
FM (30°-60°)	8363.5	50.2			
FH (60°-80°)	5553.0	33.3			G3/7500
FVH (80°-90°)	58.6	0.4			G1/100
BL (0°-30°)	522.9	3.1	B2/1000		
BM (30°-60°)	886.8	5.3	B1/1000		
BH (60°-80°)	312.1	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-G3

Type III Short





REPORT NUMBER: P454851
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1
2.5°	1817.8	1824.0	1830.3	1832.8	1841.6	1850.4	1856.6	1855.4	1865.4	1870.4	1870.4
5°	1745.0	1745.0	1761.3	1776.4	1801.5	1826.5	1850.4	1855.4	1874.2	1891.7	1898.0
7.5°	1683.6	1687.4	1699.9	1727.5	1761.3	1805.2	1852.9	1864.1	1896.7	1935.6	1951.9
10°	1654.8	1657.3	1673.6	1702.4	1745.0	1805.2	1871.7	1893.0	1943.1	2004.6	2027.1
12.5°	1648.5	1652.3	1668.6	1701.2	1750.1	1822.8	1913.0	1935.6	2008.3	2087.3	2121.1
15°	1659.8	1662.3	1678.6	1713.7	1767.6	1854.1	1968.2	1999.5	2086.0	2177.6	2221.4
17.5°	1699.9	1697.4	1708.7	1737.5	1797.7	1893.0	2034.6	2072.2	2173.8	2299.2	2328.0
20°	1870.4	1854.1	1844.1	1819.0	1842.8	1948.1	2114.9	2170.0	2295.4	2423.3	2443.3
22.5°	2237.7	2201.4	2129.9	2032.1	1956.9	2023.4	2211.4	2275.3	2437.1	2562.4	2562.4
25°	2705.3	2658.9	2587.5	2374.4	2190.1	2147.5	2320.5	2400.7	2591.2	2717.9	2676.5
27.5°	3290.8	3254.4	3115.3	2867.0	2585.0	2364.3	2447.1	2521.0	2727.9	2880.8	2794.3
30°	3767.2	3749.6	3635.5	3413.6	3102.7	2780.5	2682.8	2731.7	2909.7	3086.4	2997.4
32.5°	4169.6	4169.6	4053.0	3846.1	3555.3	3269.5	3082.7	3117.8	3288.3	3492.6	3327.1
35°	4612.1	4597.1	4503.0	4306.2	3980.3	3728.3	3651.8	3699.5	3853.7	4005.3	3597.9
37.5°	5077.2	5072.2	4974.4	4783.8	4518.1	4200.9	4021.6	4034.2	4113.2	4205.9	3915.1
40°	5582.4	5589.9	5462.1	5344.2	5093.5	4768.8	4425.3	4346.3	4420.3	4682.3	4500.5
42.5°	6179.1	6161.6	6106.4	5946.0	5744.1	5549.8	5137.4	5108.5	5173.7	5454.5	5257.7
45°	6872.4	6897.5	6802.2	6713.2	6577.8	6416.1	6071.3	6021.2	6092.6	6528.9	6249.3
47.5°	7566.9	7543.1	7604.5	7588.2	7660.9	7540.6	7235.9	7133.1	7304.9	7718.6	7307.4
50°	8095.9	8122.3	8250.1	8436.9	8749.1	8816.8	8524.7	8489.6	8566.0	8831.8	8253.9
52.5°	8439.4	8527.2	8727.8	9207.9	9770.8	10208.3	9986.4	9967.6	9936.3	10007.7	9159.0
55°	8663.8	8752.8	9014.8	9721.9	10690.9	11401.7	11413.0	11332.8	11125.9	11074.5	10005.2
57.5°	8525.9	8543.5	8917.1	9862.3	11201.2	12253.0	12621.5	12541.3	12158.9	11964.6	10752.4
60°	7663.4	7699.8	8220.0	9330.7	10979.3	12531.3	13422.6	13386.2	12967.5	12748.1	11334.0
62.5°	6135.3	6240.6	6775.9	8014.4	9947.5	12062.4	13747.3	13850.1	13524.1	13222.0	11517.1
63°	5854.4	5820.6	6386.0	7630.8	9674.2	11830.5	13752.3	13882.7	13549.2	13267.1	11466.9
65°	4333.8	4435.3	4802.6	6017.4	8050.8	10751.1	13442.6	13673.3	13456.4	13067.8	10911.6
67.5°	2433.3	2428.3	2834.5	3937.6	5635.1	8433.2	12155.2	12642.8	12597.7	11726.4	9044.9
70°	1190.9	1209.8	1376.5	2040.9	3268.2	5818.1	10100.5	10627.0	10643.3	9210.4	6254.3
72.5°	539.1	547.8	666.9	994.1	1679.9	3097.7	6960.1	7462.8	7370.1	5869.5	3453.7
75°	284.6	303.4	367.3	500.2	809.8	1277.4	3786.0	4272.4	4078.0	2681.5	1271.2
77.5°	210.6	216.9	249.5	318.4	433.8	497.7	1633.5	1943.1	1820.3	970.3	421.2
80°	154.2	159.2	185.5	225.7	273.3	253.2	615.5	705.8	633.1	329.7	129.1
82.5°	94.0	95.3	135.4	168.0	171.7	141.7	203.1	218.1	228.2	185.5	70.2
85°	33.8	42.6	91.5	121.6	101.5	71.5	85.2	94.0	102.8	117.8	41.4
87.5°	3.8	5.0	43.9	58.9	28.8	26.3	31.3	35.1	37.6	43.9	20.1
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: P454851
 CATALOG NUMBER: GALN-SA6A-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1
2.5°	1875.4	1880.4	1876.7	1870.4	1869.2	1865.4	1857.9	1857.9	1857.9	1860.4	1857.9
5°	1903.0	1906.8	1898.0	1885.5	1871.7	1854.1	1835.3	1824.0	1822.8	1820.3	1814.0
7.5°	1955.7	1960.7	1940.6	1910.5	1872.9	1830.3	1790.2	1752.6	1735.0	1721.2	1721.2
10°	2032.1	2037.1	1997.0	1943.1	1867.9	1781.4	1686.1	1599.6	1531.9	1500.6	1493.1
12.5°	2123.6	2126.2	2059.7	1965.7	1841.6	1674.8	1471.8	1282.5	1150.8	1090.7	1084.4
15°	2223.9	2206.4	2118.6	1974.5	1766.4	1455.5	1104.4	872.5	735.9	695.8	710.8
17.5°	2325.5	2292.9	2163.8	1960.7	1597.1	1104.4	742.1	595.5	552.8	541.6	541.6
20°	2420.8	2375.6	2196.4	1900.5	1303.8	761.0	550.3	515.2	507.7	500.2	501.5
22.5°	2516.0	2447.1	2225.2	1766.4	971.6	544.1	492.7	481.4	471.4	461.3	460.1
25°	2608.8	2513.5	2236.5	1518.1	661.9	467.6	450.1	435.0	415.0	403.7	401.2
27.5°	2705.3	2593.8	2228.9	1204.7	482.6	418.7	401.2	379.8	356.0	336.0	336.0
30°	2890.9	2746.7	2202.6	866.3	406.2	368.6	346.0	312.2	285.8	265.8	264.5
32.5°	3144.1	2946.0	2112.4	609.3	361.0	324.7	290.8	253.2	225.7	210.6	210.6
35°	3369.8	3146.6	1943.1	448.8	324.7	282.1	240.7	204.3	183.0	173.0	169.2
37.5°	3713.2	3440.0	1709.9	364.8	289.6	244.5	201.8	168.0	150.4	142.9	142.9
40°	4228.5	3798.5	1424.1	319.7	255.7	208.1	168.0	141.7	127.9	119.1	119.1
42.5°	4867.8	4237.3	1134.5	287.1	224.4	179.3	140.4	120.3	107.8	101.5	100.3
45°	5672.7	4699.8	873.8	257.0	199.3	152.9	119.1	101.5	89.0	85.2	86.5
47.5°	6512.6	5107.3	677.0	230.7	173.0	129.1	101.5	87.8	79.0	74.0	74.0
50°	7229.7	5388.1	514.0	200.6	152.9	109.1	89.0	79.0	71.5	68.9	67.7
52.5°	7828.9	5469.6	393.6	174.3	134.1	94.0	79.0	71.5	65.2	61.4	61.4
55°	8339.1	5398.1	308.4	146.7	112.8	81.5	70.2	63.9	56.4	52.7	51.4
57.5°	8637.5	5168.7	235.7	121.6	91.5	67.7	61.4	53.9	45.1	38.9	38.9
60°	8787.9	4835.2	180.5	100.3	70.2	53.9	50.1	40.1	31.3	26.3	25.1
62.5°	8607.4	4392.7	136.6	79.0	52.7	40.1	33.8	28.8	20.1	15.0	15.0
63°	8495.8	4264.8	131.6	75.2	48.9	37.6	31.3	26.3	17.6	13.8	12.5
65°	7744.9	3707.0	107.8	60.2	38.9	26.3	21.3	18.8	12.5	6.3	5.0
67.5°	6150.3	2835.7	85.2	45.1	27.6	18.8	12.5	11.3	3.8	0.0	0.0
70°	4158.3	1831.5	66.4	32.6	18.8	11.3	6.3	5.0	1.3	0.0	0.0
72.5°	2168.8	939.0	51.4	23.8	11.3	7.5	3.8	1.3	0.0	0.0	0.0
75°	767.2	319.7	37.6	15.0	7.5	3.8	1.3	0.0	0.0	0.0	0.0
77.5°	231.9	119.1	23.8	11.3	5.0	2.5	0.0	0.0	0.0	0.0	0.0
80°	81.5	43.9	13.8	7.5	3.8	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	40.1	21.3	8.8	6.3	3.8	1.3	0.0	0.0	0.0	0.0	0.0
85°	22.6	13.8	7.5	6.3	3.8	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	16.3	10.0	7.5	6.3	5.0	2.5	1.3	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)