

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: P527412

Luminaire Tested: **GALN-SA2B-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7752 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 82
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

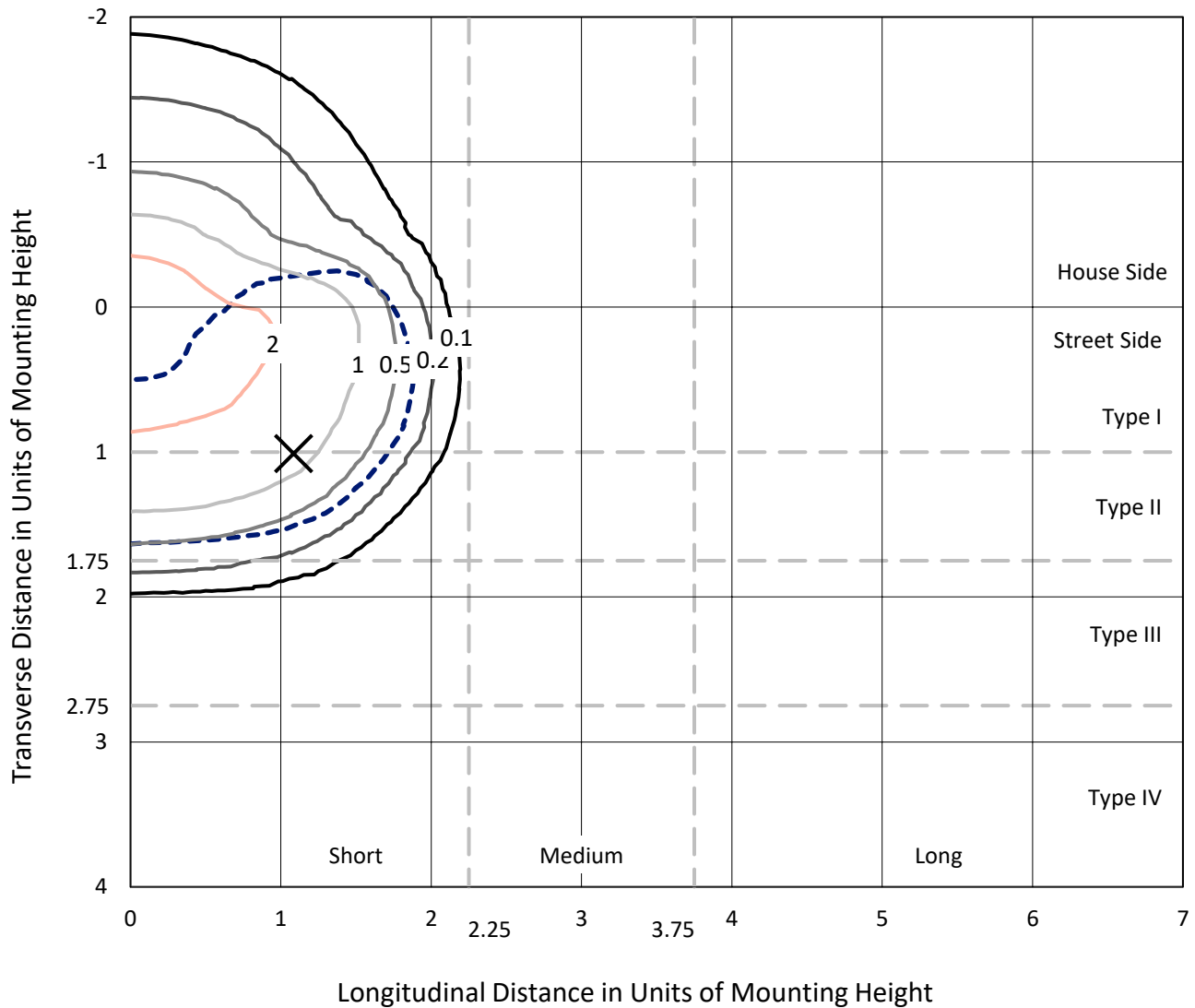


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

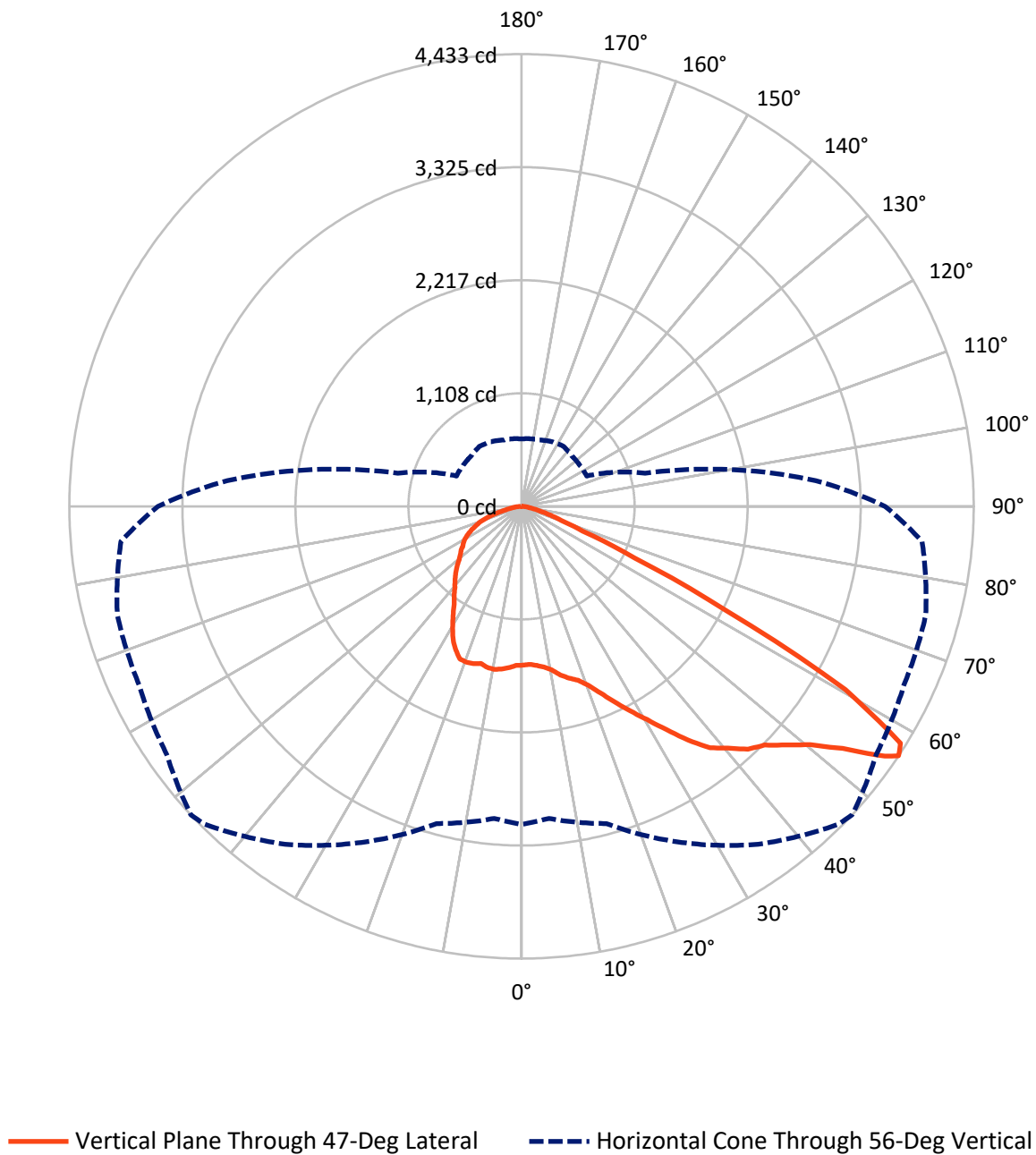


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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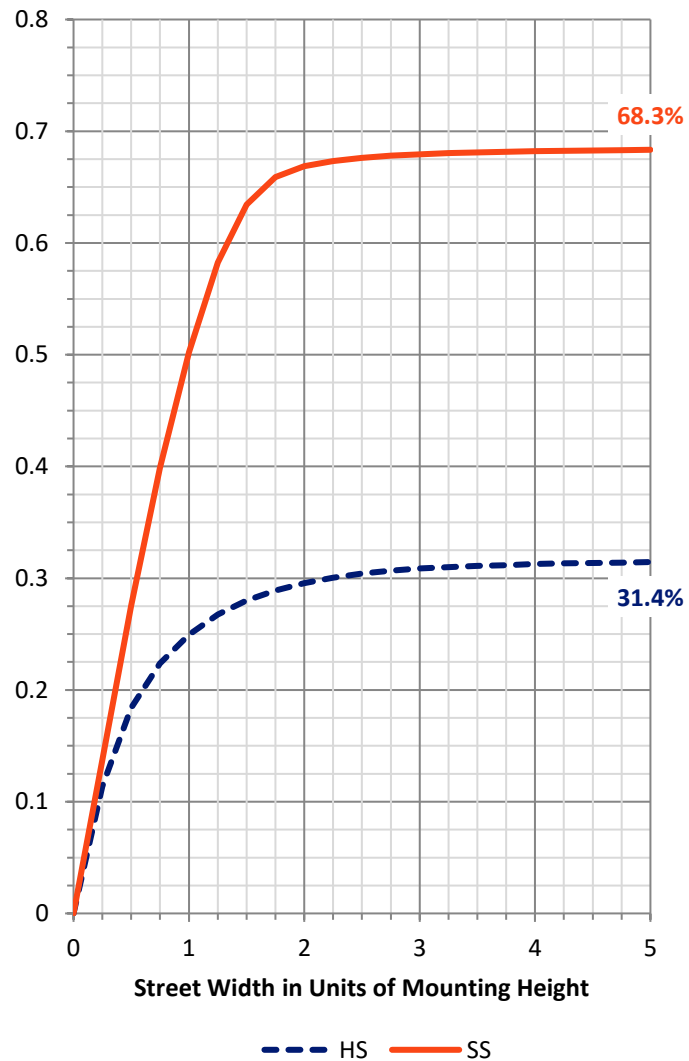
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2456.5	0.0	2456.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	5295.5	0.0	5295.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	7752.0	0.0	7752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	2.0
10°-20°	478.6	6.2
20°-30°	846.1	10.9
30°-40°	1270.8	16.4
40°-50°	1744.0	22.5
50°-60°	2077.7	26.8
60°-70°	889.1	11.5
70°-80°	251.6	3.2
80°-90°	42.3	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°	7752.0	100.0
0°-180°	7752.0	100.0

Coefficient of Utilization



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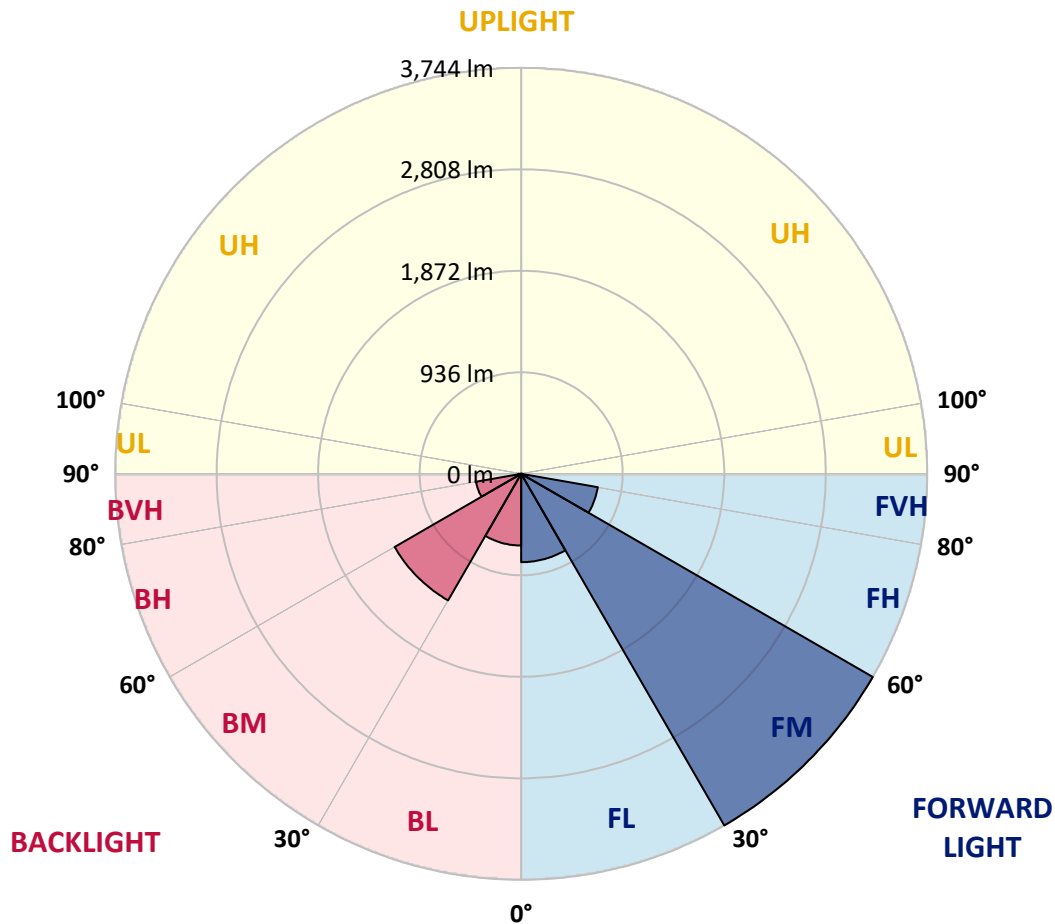
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	815.0	10.5			
FM	(30°-60°)	3744.4	48.3			
FH	(60°-80°)	718.1	9.3			G1/1800
FVH	(80°-90°)	18.0	0.2			G1/100
BL	(0°-30°)	661.4	8.5	B2/1000		
BM	(30°-60°)	1348.1	17.4	B2/2500		
BH	(60°-80°)	422.7	5.5	B1/500		G1/500
BVH	(80°-90°)	24.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1
2.5°	1551.2	1548.2	1546.3	1562.1	1556.2	1557.1	1551.2	1557.1	1561.1	1552.2	1565.1
5°	1548.2	1557.1	1549.2	1554.2	1567.0	1563.1	1567.0	1578.9	1575.9	1573.0	1569.0
7.5°	1575.9	1576.9	1582.8	1584.8	1588.8	1584.8	1590.8	1601.6	1598.7	1581.9	1583.8
10°	1615.5	1617.4	1618.4	1629.3	1636.2	1637.2	1630.3	1620.4	1619.4	1642.2	1626.3
12.5°	1661.0	1656.0	1667.9	1671.8	1679.7	1688.6	1697.5	1676.8	1689.6	1690.6	1671.8
15°	1727.2	1732.1	1718.3	1718.3	1721.3	1722.2	1747.0	1737.1	1735.1	1724.2	1732.1
17.5°	1826.1	1792.4	1791.5	1777.6	1775.6	1783.5	1792.4	1800.4	1827.0	1805.3	1762.8
20°	1898.2	1906.1	1877.5	1860.7	1863.6	1881.4	1872.5	1908.1	1926.9	1891.3	1849.8
22.5°	2025.8	1999.1	2006.0	1968.4	1971.4	1990.2	1989.2	2025.8	2036.6	1980.3	1920.0
25°	2111.8	2104.9	2110.8	2081.1	2085.1	2099.9	2123.6	2184.0	2166.2	2103.9	1964.5
27.5°	2237.3	2223.5	2218.6	2207.7	2203.7	2243.3	2271.0	2335.2	2322.4	2231.4	2043.6
30°	2365.9	2357.0	2361.9	2317.4	2333.2	2417.3	2425.2	2513.2	2507.2	2347.1	2131.6
32.5°	2454.8	2459.8	2468.7	2444.0	2514.2	2581.4	2608.1	2707.9	2712.9	2545.8	2301.6
35°	2598.2	2581.4	2586.3	2615.0	2647.6	2770.2	2813.7	2880.0	2921.5	2754.4	2464.7
37.5°	2688.2	2706.0	2685.2	2730.7	2815.7	2963.0	3002.6	3070.8	3114.3	2960.1	2687.2
40°	2828.6	2799.9	2814.7	2847.3	2934.3	3126.1	3115.3	3185.5	3199.3	3135.0	2894.8
42.5°	2979.8	2966.0	2945.2	3019.4	3092.5	3231.9	3253.7	3221.1	3291.3	3306.1	3191.4
45°	3160.7	3177.6	3180.5	3182.5	3246.8	3368.4	3338.7	3310.0	3391.1	3498.9	3375.3
47.5°	3328.8	3275.4	3314.0	3367.4	3458.3	3459.3	3493.9	3425.7	3511.7	3607.6	3541.4
50°	3385.2	3359.5	3410.9	3511.7	3652.1	3666.9	3670.9	3574.0	3618.5	3694.6	3598.7
52.5°	3363.4	3354.5	3486.0	3642.2	3847.9	3923.0	3942.8	3823.2	3847.9	3813.3	3725.3
55°	3259.6	3286.3	3418.8	3737.1	4052.5	4284.9	4322.4	4171.2	4014.0	4040.7	3943.8
56°	3117.2	3070.8	3219.1	3629.4	4043.6	4402.5	4433.2	4244.3	4137.5	4102.9	3941.8
57.5°	2644.7	2584.4	2779.1	3265.5	3819.2	4358.0	4380.8	4275.0	4116.8	4046.6	3654.1
60°	1548.2	1577.9	1825.1	2252.2	2946.2	3573.0	3649.1	3726.3	3620.5	3306.1	2719.8
62.5°	747.4	728.6	905.6	1291.2	1795.4	2280.8	2258.1	2474.6	2593.3	2349.1	1717.3
65°	391.5	389.5	494.3	704.9	986.7	1198.3	1219.0	1335.7	1498.8	1210.1	872.0
67.5°	287.7	295.6	348.0	495.3	634.7	647.6	644.6	702.9	718.8	608.0	535.9
70°	225.4	229.4	267.9	376.7	472.6	423.1	414.2	421.2	467.6	487.4	463.7
72.5°	163.1	167.1	199.7	254.1	295.6	288.7	294.6	333.2	390.5	411.3	386.6
75°	108.8	111.7	129.5	155.2	175.0	188.8	199.7	244.2	297.6	309.5	297.6
77.5°	75.1	78.1	90.0	109.7	111.7	120.6	124.6	145.3	178.0	192.8	184.9
80°	42.5	42.5	48.4	56.4	69.2	81.1	83.0	99.9	114.7	124.6	126.5
82.5°	19.8	20.8	25.7	34.6	45.5	56.4	58.3	69.2	80.1	90.0	92.9
85°	9.9	10.9	14.8	20.8	27.7	33.6	32.6	33.6	35.6	33.6	34.6
87.5°	3.0	3.0	4.0	4.9	4.0	4.9	4.9	5.9	6.9	7.9	8.9
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°	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1
2.5°	1566.0	1569.0	1549.2	1568.0	1561.1	1560.1	1573.9	1572.0	1576.9	1574.9	1563.1
5°	1567.0	1560.1	1580.9	1562.1	1571.0	1589.8	1576.9	1606.6	1591.7	1601.6	1579.9
7.5°	1597.7	1599.7	1595.7	1603.6	1599.7	1608.6	1601.6	1608.6	1596.7	1597.7	1617.4
10°	1624.4	1618.4	1625.4	1615.5	1622.4	1619.4	1603.6	1598.7	1602.6	1597.7	1610.5
12.5°	1673.8	1662.9	1658.0	1646.1	1638.2	1608.6	1583.8	1570.0	1588.8	1591.7	1585.8
15°	1724.2	1725.2	1702.5	1675.8	1626.3	1581.9	1587.8	1592.7	1592.7	1600.6	1585.8
17.5°	1755.9	1755.9	1735.1	1681.7	1631.3	1605.6	1599.7	1583.8	1570.0	1568.0	1567.0
20°	1811.2	1794.4	1747.0	1680.7	1629.3	1617.4	1573.0	1535.4	1506.7	1496.8	1495.8
22.5°	1874.5	1832.0	1765.7	1682.7	1626.3	1609.5	1526.5	1470.1	1418.7	1397.0	1399.9
25°	1932.8	1864.6	1776.6	1673.8	1615.5	1534.4	1441.5	1363.4	1310.0	1292.2	1283.3
27.5°	1973.4	1899.2	1776.6	1681.7	1574.9	1450.4	1355.5	1255.6	1209.1	1197.3	1199.2
30°	2027.7	1942.7	1807.3	1664.9	1493.9	1341.6	1227.9	1162.7	1135.0	1125.1	1132.0
32.5°	2155.3	2056.4	1849.8	1624.4	1398.0	1232.9	1140.9	1104.3	1063.8	1044.0	1037.1
35°	2293.7	2164.2	1891.3	1556.2	1290.2	1134.0	1076.7	1043.0	994.6	972.8	976.8
37.5°	2489.4	2302.6	1894.3	1443.4	1173.5	1078.6	1026.2	973.8	934.3	900.7	890.8
40°	2753.4	2491.4	1887.4	1324.8	1079.6	1013.4	974.8	909.6	865.1	841.4	846.3
42.5°	2985.8	2712.9	1858.7	1190.3	994.6	968.9	925.4	861.1	817.6	792.9	790.9
45°	3181.5	2876.0	1804.3	1075.7	923.4	919.5	869.0	819.6	785.0	762.3	772.1
47.5°	3362.4	3007.5	1722.2	961.0	858.2	866.1	817.6	787.0	765.2	744.5	743.5
50°	3427.7	3005.5	1650.1	866.1	805.8	801.8	799.8	767.2	744.5	726.7	734.6
52.5°	3536.4	3039.1	1572.0	800.8	758.3	759.3	766.2	742.5	716.8	705.9	715.8
55°	3692.6	3044.1	1399.9	724.7	718.8	725.7	725.7	709.9	688.1	679.2	674.3
56°	3565.1	2896.8	1255.6	704.9	699.0	699.0	717.8	700.0	673.3	666.4	660.4
57.5°	3288.3	2537.9	1050.9	681.2	672.3	686.1	696.0	677.2	652.5	642.6	648.6
60°	2268.0	1717.3	789.9	629.8	629.8	652.5	660.4	632.7	621.9	620.9	613.0
62.5°	1323.8	1000.5	617.9	583.3	585.3	604.1	610.0	594.2	580.3	597.2	605.1
65°	701.9	597.2	529.9	533.9	534.9	549.7	575.4	574.4	573.4	578.4	579.4
67.5°	508.2	496.3	481.5	477.5	479.5	490.4	516.1	535.9	534.9	523.0	514.1
70°	452.8	436.0	427.1	428.1	420.2	433.0	453.8	466.6	443.9	430.1	424.1
72.5°	376.7	371.7	365.8	366.8	351.0	348.0	324.3	324.3	318.3	314.4	321.3
75°	287.7	285.7	288.7	283.7	266.9	249.1	235.3	222.4	202.7	194.8	190.8
77.5°	181.9	187.8	194.8	183.9	177.0	164.1	150.3	137.4	121.6	112.7	112.7
80°	123.6	128.5	133.5	131.5	123.6	111.7	100.8	87.0	76.1	69.2	68.2
82.5°	93.9	97.9	104.8	96.9	89.0	79.1	70.2	60.3	50.4	42.5	42.5
85°	33.6	38.6	42.5	46.5	49.4	50.4	43.5	35.6	28.7	22.7	21.8
87.5°	8.9	9.9	10.9	9.9	9.9	9.9	10.9	9.9	8.9	6.9	6.9
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)