

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: P947722

Luminaire Tested: **GALN-SB3A-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9541 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.7
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

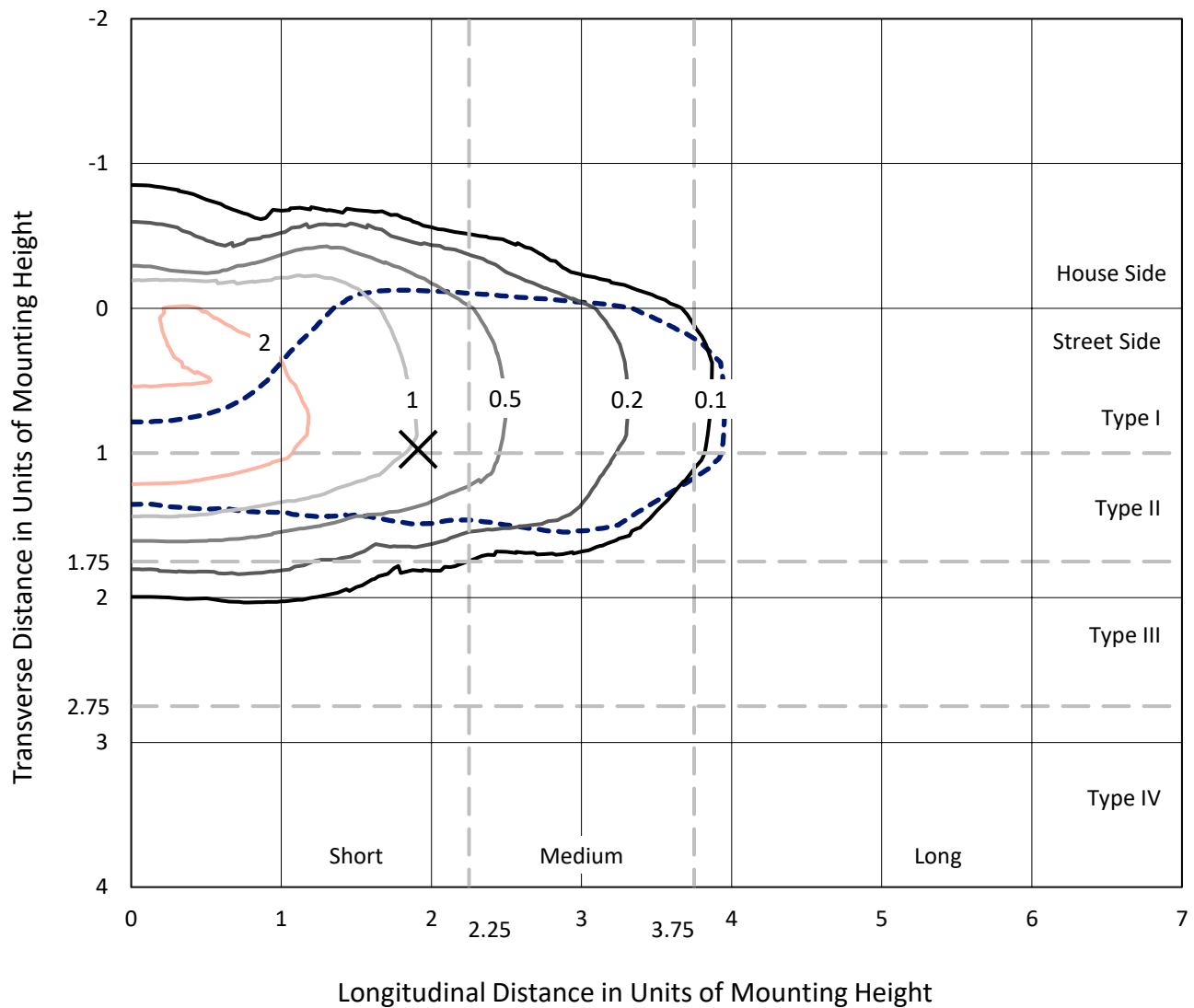


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

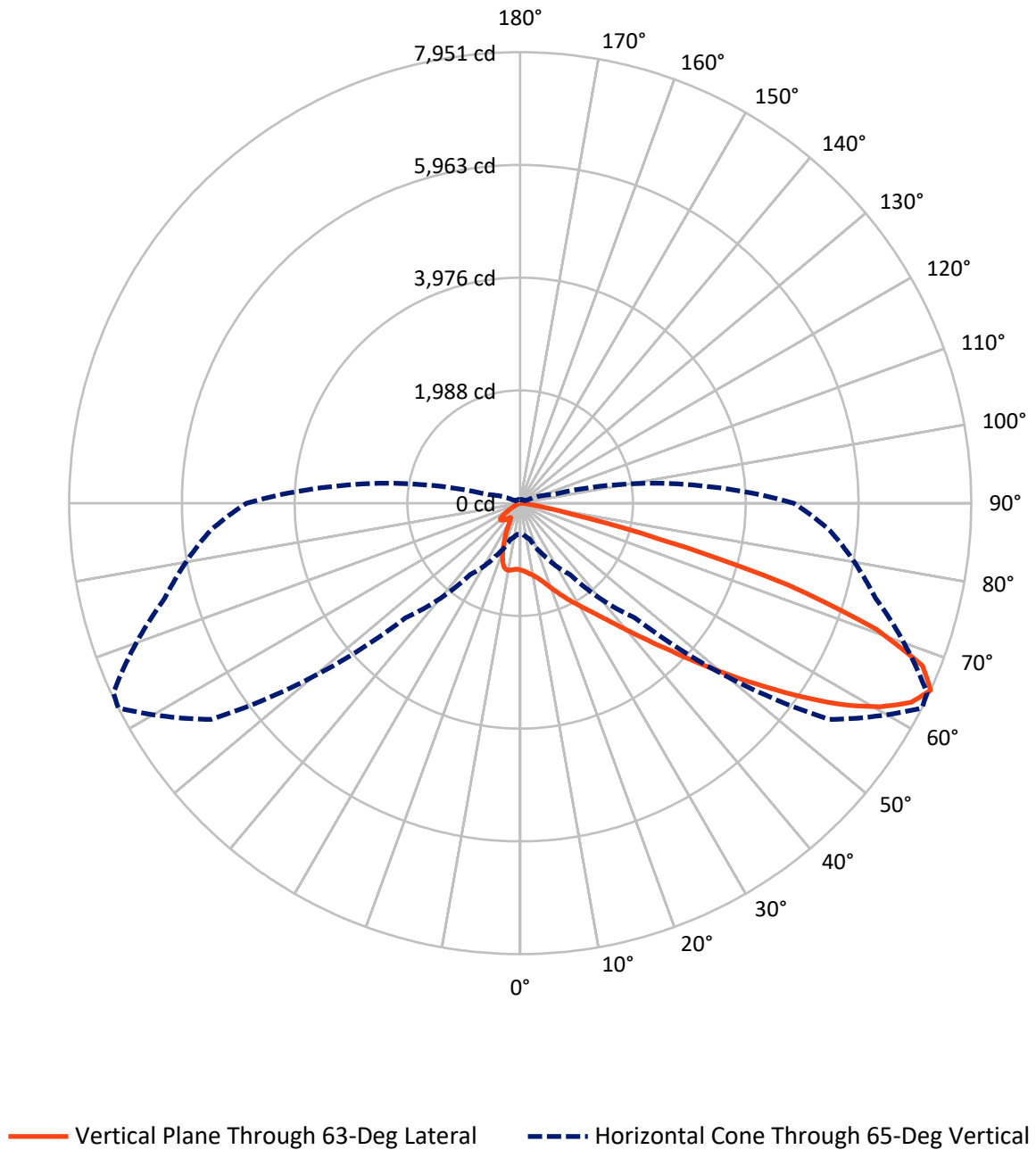


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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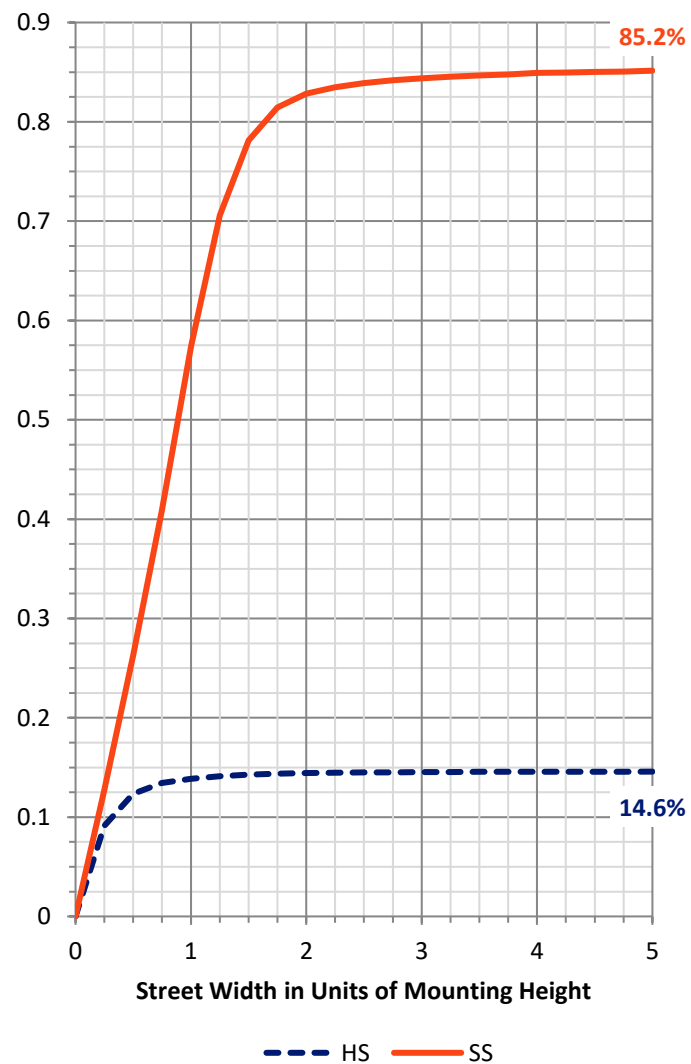
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1402.5	0.0	1402.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	8138.5	0.0	8138.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	9541.0	0.0	9541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	1.2
10°-20°	307.8	3.2
20°-30°	536.0	5.6
30°-40°	966.1	10.1
40°-50°	1916.1	20.1
50°-60°	2610.1	27.4
60°-70°	2083.3	21.8
70°-80°	942.8	9.9
80°-90°	67.8	0.7
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°	9541.0	100.0
0°-180°	9541.0	100.0

Coefficient of Utilization



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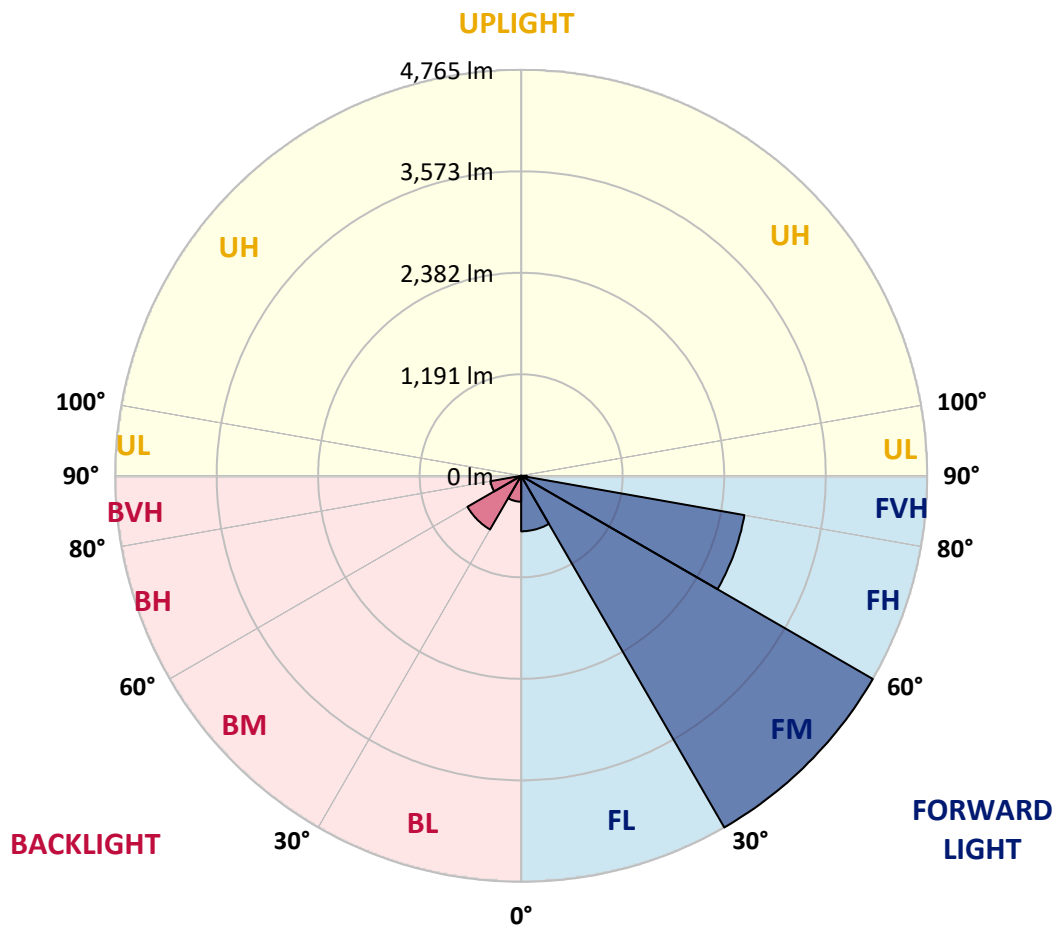
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	651.3	6.8			
FM	(30°-60°)	4764.5	49.9			
FH	(60°-80°)	2660.0	27.9			G2/5000
FVH	(80°-90°)	62.7	0.7			G1/100
BL	(0°-30°)	303.5	3.2	B1/500		
BM	(30°-60°)	727.8	7.6	B1/1000		
BH	(60°-80°)	366.1	3.8	B1/500		G1/500
BVH	(80°-90°)	5.0	0.1			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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5
2.5°	1205.1	1201.8	1206.4	1204.5	1203.1	1200.5	1199.2	1197.9	1195.3	1193.3	1185.4
5°	1208.4	1206.4	1211.0	1215.0	1218.9	1222.8	1224.8	1227.4	1224.8	1219.5	1211.7
7.5°	1180.8	1179.5	1189.4	1201.2	1218.9	1234.0	1250.4	1259.6	1260.2	1258.3	1249.7
10°	1178.9	1175.6	1185.4	1199.9	1222.8	1249.7	1278.6	1298.3	1300.9	1309.5	1300.3
12.5°	1209.7	1206.4	1220.2	1236.0	1259.6	1287.8	1323.3	1350.8	1354.8	1366.6	1360.0
15°	1261.6	1257.0	1272.7	1293.1	1323.3	1355.4	1392.8	1417.8	1421.1	1435.5	1423.7
17.5°	1321.9	1317.3	1335.7	1357.4	1390.2	1434.2	1477.5	1505.1	1509.0	1518.2	1496.5
20°	1399.4	1393.5	1407.9	1427.6	1462.4	1514.9	1566.8	1606.2	1605.5	1605.5	1570.1
22.5°	1489.3	1480.1	1492.6	1508.4	1541.2	1604.8	1673.8	1720.4	1720.4	1702.0	1643.6
25°	1585.8	1576.6	1590.4	1604.8	1633.7	1705.9	1786.7	1844.4	1847.0	1815.5	1722.3
27.5°	1706.6	1694.8	1705.3	1722.3	1739.4	1812.9	1908.7	1975.7	1977.0	1928.4	1797.2
30°	1938.9	1905.5	1872.6	1854.3	1862.1	1935.0	2037.4	2111.6	2118.1	2051.2	1878.5
32.5°	2364.3	2357.7	2242.2	2091.2	2012.5	2066.3	2181.1	2270.4	2274.3	2188.4	1984.2
35°	3025.2	3017.4	2831.6	2544.1	2287.5	2242.2	2355.7	2461.4	2458.8	2361.6	2121.4
37.5°	3814.2	3807.0	3562.2	3177.5	2762.0	2508.0	2580.9	2691.8	2708.2	2580.9	2298.6
40°	4488.3	4461.4	4306.5	3935.6	3392.2	2949.1	2901.2	2974.7	2991.8	2840.8	2523.8
42.5°	4999.0	4976.0	4897.2	4665.5	4154.9	3601.5	3278.6	3306.8	3325.9	3144.7	2782.4
45°	5263.5	5258.2	5289.7	5268.1	4932.0	4402.3	3818.1	3700.7	3707.9	3481.4	3075.8
47.5°	5300.9	5298.3	5442.0	5645.5	5600.2	5305.5	4510.6	4191.6	4166.0	3861.5	3394.8
50°	5080.4	5075.1	5350.8	5732.1	6046.5	6064.3	5297.0	4744.9	4688.5	4254.6	3727.6
52.5°	4376.1	4374.8	4827.7	5462.4	6203.4	6728.5	6074.1	5352.8	5258.2	4670.8	4079.4
55°	3367.2	3391.5	3910.7	4660.9	5917.2	7048.2	6771.8	6027.5	5882.4	5089.5	4403.6
57.5°	2385.3	2420.7	2934.0	3602.2	5029.8	6859.1	7243.8	6703.6	6547.4	5507.0	4732.5
60°	1281.2	1312.8	1826.7	2624.2	3742.0	6154.2	7492.5	7290.4	7142.7	5903.5	5029.2
62.5°	763.4	773.9	986.5	1694.1	2531.0	4701.6	7386.9	7737.4	7615.9	6236.2	5287.1
65°	548.1	550.0	657.0	1034.4	1536.6	2856.6	6645.8	7951.3	7913.9	6487.0	5478.1
67.5°	461.4	460.1	504.8	687.2	1046.9	1430.9	5093.5	7648.8	7807.6	6645.8	5586.4
70°	395.8	397.8	450.3	503.4	787.0	810.0	2532.3	6659.6	6998.3	6687.8	5579.9
72.5°	294.7	301.3	349.8	458.8	594.0	557.3	874.3	4937.9	5550.3	6301.2	5290.4
75°	208.1	211.4	246.1	385.9	443.1	405.6	446.3	2552.6	3337.7	4830.9	4330.1
77.5°	160.2	166.1	186.4	269.8	436.5	284.9	273.1	883.5	1357.4	2918.3	2968.8
80°	86.6	97.1	134.6	194.9	306.5	201.5	135.2	351.8	460.1	1364.6	1144.7
82.5°	44.6	49.9	93.9	140.5	174.6	175.9	67.0	146.4	189.7	421.4	156.9
85°	17.7	21.7	63.0	77.5	89.9	86.6	30.2	59.1	68.3	116.8	47.9
87.5°	3.9	6.6	23.0	17.7	17.1	18.4	7.2	13.8	13.1	13.8	8.5
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°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5
2.5°	1184.8	1182.1	1174.9	1167.0	1157.8	1152.6	1149.3	1148.7	1144.1	1140.8	1144.1
5°	1204.5	1201.8	1188.0	1171.6	1153.9	1140.1	1127.0	1115.2	1098.1	1094.8	1093.5
7.5°	1243.8	1236.6	1214.3	1192.0	1158.5	1118.5	1069.9	1014.1	964.2	949.1	941.9
10°	1292.4	1282.6	1254.3	1215.0	1140.8	1031.8	914.3	805.4	718.7	694.4	685.3
12.5°	1347.5	1339.0	1301.6	1228.7	1066.6	869.0	689.2	554.0	470.0	449.0	443.1
15°	1413.2	1400.7	1348.9	1207.7	934.0	660.3	473.2	393.2	363.0	359.0	355.1
17.5°	1482.8	1462.4	1390.9	1132.2	755.5	469.3	365.6	342.6	329.5	325.6	323.6
20°	1546.4	1520.2	1415.8	1018.0	564.5	365.6	327.5	312.4	300.6	296.0	293.4
22.5°	1610.1	1572.7	1415.8	862.5	423.4	324.3	300.6	286.8	273.1	267.1	263.9
25°	1676.4	1626.5	1390.9	689.2	340.7	297.3	275.0	259.9	248.1	240.9	238.3
27.5°	1740.7	1671.8	1333.8	525.1	303.2	273.7	251.4	237.0	225.8	220.5	220.5
30°	1801.8	1716.4	1253.7	398.4	279.0	250.7	229.7	217.3	206.1	200.9	201.5
32.5°	1884.5	1772.9	1168.4	326.9	258.0	229.1	210.0	198.2	188.4	184.4	184.4
35°	1999.3	1856.2	1094.8	321.0	240.2	211.4	192.3	181.2	171.3	168.0	168.0
37.5°	2162.1	1990.8	1056.1	360.4	225.8	195.6	177.9	166.1	156.9	154.2	153.6
40°	2363.0	2173.3	1077.1	399.7	215.9	181.8	164.8	152.9	145.1	141.8	141.1
42.5°	2601.2	2398.4	1193.3	429.9	209.4	170.0	152.3	139.2	133.9	132.6	132.6
45°	2874.9	2645.9	1371.2	462.1	198.9	158.8	139.8	130.0	126.0	125.4	124.7
47.5°	3186.1	2917.6	1577.3	502.1	188.4	148.3	130.0	123.4	120.1	118.8	118.8
50°	3494.5	3191.3	1789.3	524.4	179.8	138.5	122.1	116.8	114.2	113.6	113.6
52.5°	3817.5	3472.9	1960.6	503.4	172.6	130.6	115.5	111.6	109.0	108.3	108.3
55°	4125.3	3700.7	1990.1	427.3	158.2	122.7	108.3	106.3	103.1	103.1	102.4
57.5°	4390.5	3814.9	1781.4	313.7	143.7	110.9	101.1	99.1	96.5	95.8	95.2
60°	4634.0	3782.0	1375.1	211.4	128.0	99.1	91.9	90.6	88.0	84.7	84.0
62.5°	4771.2	3637.6	940.6	137.8	112.2	86.6	81.4	80.7	74.8	68.3	67.0
65°	4823.1	3341.0	586.8	100.4	93.9	74.2	70.2	68.9	60.4	53.2	52.5
67.5°	4777.8	2852.6	296.0	79.4	74.2	61.7	57.8	57.8	51.9	45.3	44.6
70°	4596.6	2138.5	124.7	63.7	57.1	47.3	47.3	49.9	44.0	36.8	36.1
72.5°	4203.4	1438.8	66.3	48.6	42.7	33.5	38.7	40.7	34.8	27.6	27.6
75°	3341.6	877.6	45.9	36.1	26.9	23.6	29.5	30.8	23.6	18.4	17.7
77.5°	2285.5	504.1	30.8	23.0	17.1	13.8	20.3	19.0	12.5	8.5	9.2
80°	1003.6	210.0	17.7	10.5	6.6	5.3	7.2	5.3	3.9	2.6	2.6
82.5°	117.5	49.2	6.6	3.9	2.6	1.3	0.7	0.0	0.0	0.0	0.0
85°	24.3	5.9	3.3	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	1.3	0.7	0.0	0.0	0.0	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)