

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: P526303

Luminaire Tested: **GALN-SA1B-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3912 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

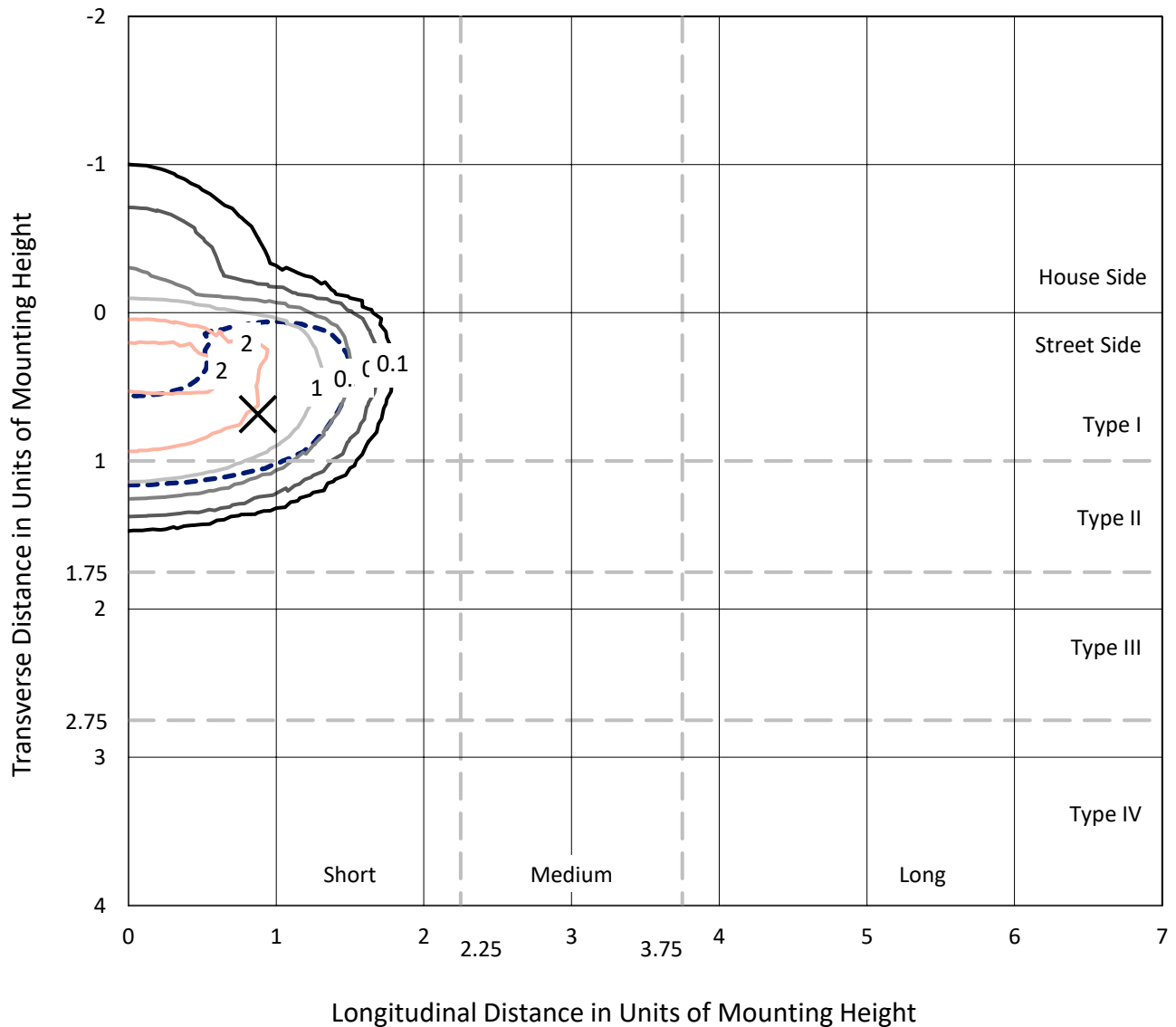
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

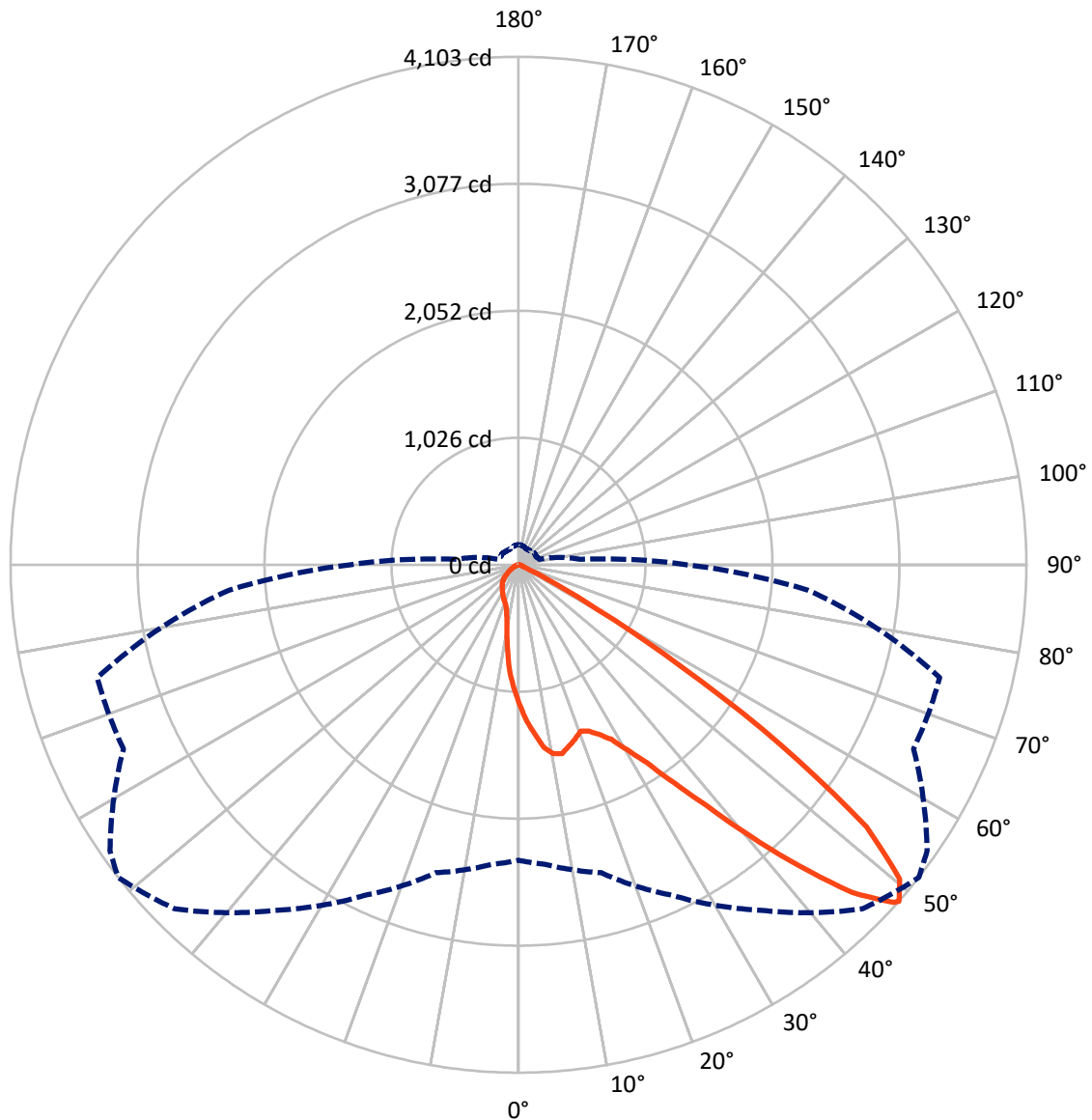
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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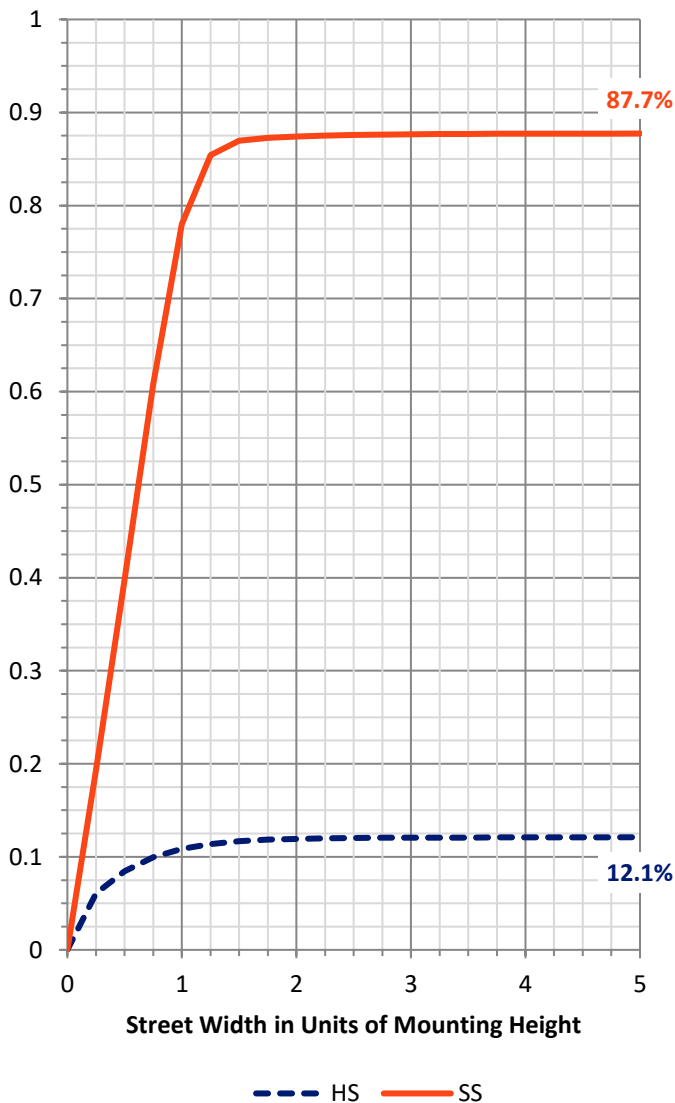
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	476.3	0.0	476.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3435.7	0.0	3435.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	3912.0	0.0	3912.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	2.6
10°-20°	270.2	6.9
20°-30°	461.4	11.8
30°-40°	849.6	21.7
40°-50°	1319.5	33.7
50°-60°	794.1	20.3
60°-70°	91.8	2.3
70°-80°	17.8	0.5
80°-90°	4.1	0.1
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°	3912.0	100.0
0°-180°	3912.0	100.0

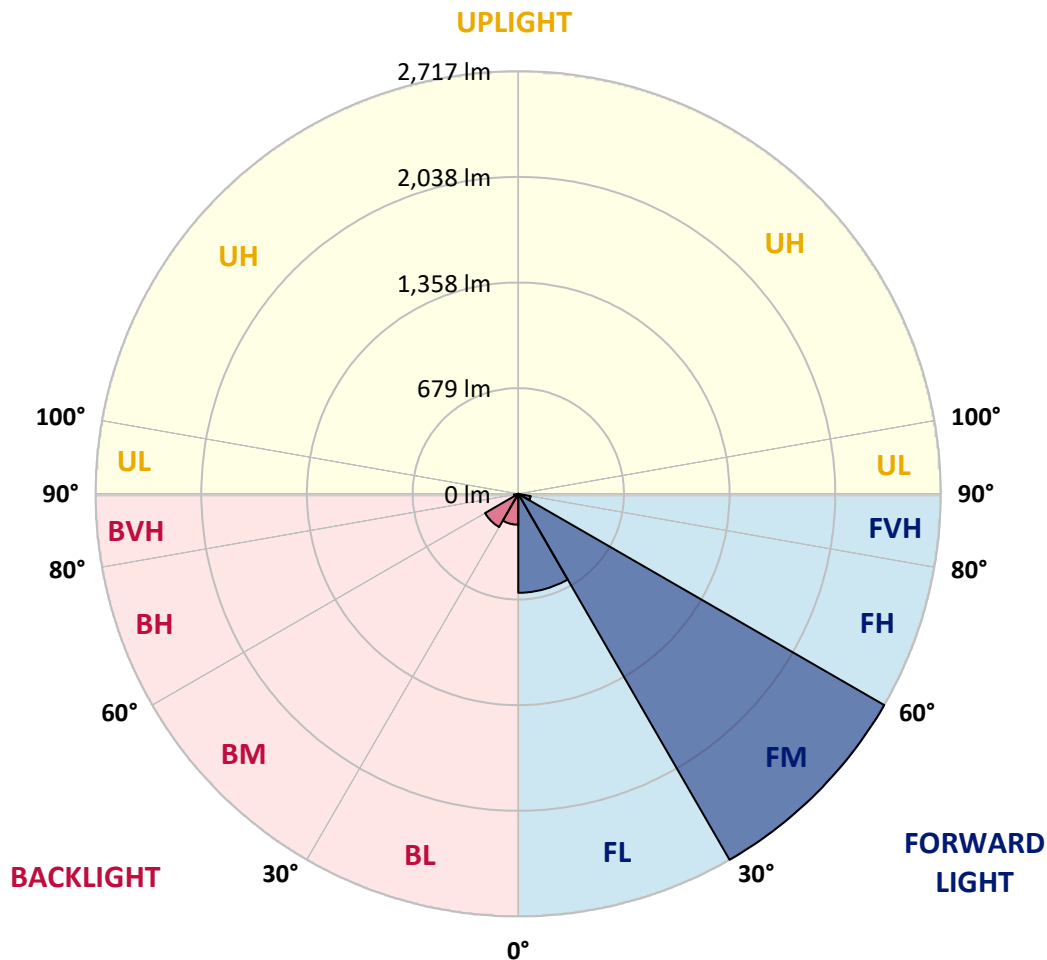


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.0	16.3			
FM (30°-60°)	2716.8	69.4			
FH (60°-80°)	80.9	2.1			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	199.0	5.1	B1/500		
BM (30°-60°)	246.4	6.3	B1/1000		
BH (60°-80°)	28.7	0.7	B0/110		G0/110
BVH (80°-90°)	2.2	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1129.7	1129.7	1129.7	1129.7	1129.7	1129.7	1129.7	1129.7	1129.7	1129.7	1129.7
2.5°	1369.2	1337.9	1340.7	1320.2	1308.2	1288.8	1262.6	1257.5	1228.9	1190.2	1150.8
5°	1492.4	1485.0	1494.7	1465.0	1466.2	1434.2	1372.7	1373.8	1308.2	1244.9	1183.9
7.5°	1500.4	1483.3	1493.0	1519.2	1534.6	1528.9	1494.1	1463.9	1401.7	1308.8	1219.8
10°	1343.6	1376.1	1386.3	1429.7	1491.3	1556.3	1552.3	1554.0	1502.1	1380.6	1250.6
12.5°	1249.5	1227.8	1262.6	1288.8	1381.8	1507.8	1565.4	1578.0	1582.0	1450.2	1281.4
15°	1206.7	1206.7	1212.4	1219.8	1287.1	1403.5	1520.9	1557.4	1643.5	1541.5	1329.9
17.5°	1233.5	1232.4	1240.4	1225.0	1250.0	1339.6	1479.9	1521.5	1712.5	1631.0	1368.1
20°	1315.1	1319.1	1313.9	1269.4	1271.1	1338.4	1434.2	1499.8	1759.3	1708.6	1418.9
22.5°	1428.5	1430.8	1401.7	1353.3	1339.0	1372.1	1460.5	1510.7	1796.9	1801.5	1434.2
25°	1559.7	1550.6	1544.9	1476.4	1433.1	1461.6	1519.8	1548.9	1820.3	1881.3	1478.2
27.5°	1741.6	1723.4	1688.6	1627.6	1595.6	1555.1	1596.8	1644.7	1887.0	1993.1	1526.1
30°	2010.2	1994.3	1926.4	1847.7	1763.9	1724.0	1737.1	1763.3	2007.4	2122.6	1589.4
32.5°	2414.6	2380.9	2282.8	2132.8	2018.8	1908.7	1905.3	1933.2	2115.2	2301.6	1664.6
35°	2859.9	2849.7	2705.4	2550.9	2330.2	2160.2	2163.1	2177.9	2321.6	2536.6	1763.3
37.5°	3155.9	3212.4	3120.6	2954.6	2769.3	2526.3	2464.7	2469.9	2605.0	2814.9	1941.2
40°	3384.6	3336.7	3347.5	3308.8	3182.2	3016.8	2880.5	2853.7	2932.9	3122.8	2118.0
42.5°	3284.8	3287.1	3353.8	3445.6	3477.0	3465.0	3325.9	3275.1	3213.5	3374.9	2286.2
45°	3003.1	3061.8	3148.5	3391.4	3604.7	3804.9	3777.5	3693.1	3407.4	3574.5	2383.2
47.5°	2553.7	2551.4	2693.4	3009.4	3483.3	3952.0	4076.3	4017.0	3544.8	3552.3	2363.2
48°	2387.8	2428.8	2575.4	2947.2	3406.3	3930.4	4103.1	4028.4	3521.5	3522.6	2346.1
50°	1765.0	1757.6	1940.1	2396.3	3042.4	3693.1	3990.2	4048.4	3520.9	3372.6	2226.4
52.5°	932.4	964.3	1097.2	1506.7	2151.1	3022.5	3519.8	3610.4	3396.6	3127.4	2054.1
55°	396.3	358.1	460.2	680.3	1210.1	2019.4	2582.2	2784.1	2871.9	2767.6	1796.9
57.5°	141.4	154.5	177.9	256.1	508.7	1105.2	1539.8	1696.6	1989.7	2030.8	1224.4
60°	90.7	92.4	99.8	117.5	191.0	426.0	730.5	855.4	988.3	1020.2	571.4
62.5°	70.1	70.7	74.1	77.0	90.7	165.4	274.3	325.1	337.6	290.3	150.0
65°	58.7	59.3	60.4	60.4	64.4	77.6	95.8	105.5	102.7	101.5	85.0
67.5°	45.1	46.2	48.5	48.5	50.8	47.3	53.0	56.5	63.9	77.6	72.4
70°	35.4	35.9	37.6	38.8	38.8	34.2	38.2	41.6	46.8	57.6	57.0
72.5°	27.4	28.5	29.7	29.7	27.9	23.4	27.4	30.2	33.6	39.9	38.8
75°	21.1	21.1	21.7	17.7	13.7	12.0	16.5	20.0	25.1	26.2	21.7
77.5°	5.7	6.3	5.7	5.1	5.7	8.6	10.8	12.5	16.0	16.0	14.3
80°	0.0	0.6	1.7	3.4	5.7	8.0	9.7	10.8	12.5	13.7	13.1
82.5°	0.0	0.6	1.7	3.4	5.1	6.3	8.6	9.1	10.3	12.0	12.0
85°	0.0	0.6	1.1	2.3	3.4	4.0	4.0	3.4	3.4	2.9	2.3
87.5°	0.0	0.0	0.6	1.1	1.1	1.7	1.7	1.7	1.7	1.7	1.7
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°	1129.7	1129.7	1129.7	1129.7	1129.7	1129.7	1129.7	1129.7	1129.7	1129.7	1129.7
2.5°	1135.4	1117.7	1090.9	1048.7	1008.3	982.0	956.9	929.0	913.6	912.4	903.9
5°	1149.1	1109.2	1045.3	972.9	895.3	828.6	761.3	717.4	678.1	656.4	652.4
7.5°	1156.5	1104.6	1001.4	879.9	747.6	638.7	563.4	508.1	486.4	470.5	469.9
10°	1171.9	1096.6	935.8	756.8	593.1	483.0	431.1	406.0	394.1	389.5	382.7
12.5°	1183.3	1081.8	868.5	630.2	468.8	400.3	377.5	371.8	372.4	374.7	371.8
15°	1199.3	1068.7	777.9	517.2	393.5	360.4	360.4	361.6	369.5	370.7	370.1
17.5°	1198.2	1043.0	684.3	426.0	347.9	343.3	345.0	355.9	361.0	362.7	358.7
20°	1211.8	1019.1	588.0	363.8	322.2	329.1	340.5	343.3	349.6	350.7	346.2
22.5°	1207.8	959.2	498.4	314.8	302.8	315.9	327.3	330.8	329.1	325.6	325.1
25°	1200.4	907.9	416.3	282.3	288.6	302.8	313.7	307.4	304.0	304.5	305.1
27.5°	1187.3	842.9	348.4	259.5	269.2	290.3	289.7	287.4	290.8	288.0	290.8
30°	1185.0	777.9	292.6	238.9	254.9	270.3	271.5	275.4	279.4	274.3	279.4
32.5°	1188.5	706.6	252.6	226.4	246.4	246.9	259.5	263.5	260.6	249.2	250.4
35°	1214.7	651.8	223.5	219.6	232.7	233.2	245.2	240.1	227.5	220.7	224.7
37.5°	1270.0	606.2	209.9	213.3	214.4	221.8	222.4	212.1	213.3	212.7	215.0
40°	1340.7	571.4	200.2	207.6	206.4	211.6	191.0	196.7	201.9	203.6	204.7
42.5°	1389.2	546.3	193.9	198.5	196.2	187.1	175.6	181.3	185.3	191.6	192.8
45°	1410.9	526.4	186.5	182.5	182.5	166.0	161.4	162.5	171.7	178.5	177.4
47.5°	1375.5	507.0	173.4	161.4	165.4	151.7	146.6	146.6	156.3	164.8	163.1
48°	1361.8	499.0	173.9	156.8	159.7	149.4	144.3	143.1	154.0	162.0	162.0
50°	1294.0	469.3	159.1	144.3	138.6	137.4	134.0	135.2	142.0	149.4	149.4
52.5°	1161.7	405.5	134.6	123.8	113.5	120.3	122.0	119.8	123.2	130.0	129.5
55°	969.5	311.4	107.8	102.7	94.7	102.1	105.5	102.7	99.2	104.4	104.4
57.5°	621.0	167.7	86.1	87.3	79.3	86.7	89.5	82.7	76.4	80.4	79.8
60°	280.0	100.4	70.7	69.0	63.9	72.4	77.0	69.0	60.4	63.3	66.2
62.5°	104.9	71.3	53.6	52.5	51.3	59.3	61.6	55.3	46.8	48.5	49.0
65°	77.0	62.7	42.8	38.8	41.1	46.8	45.6	39.3	33.6	33.6	34.8
67.5°	65.6	54.7	34.8	30.2	30.2	30.8	28.5	25.1	23.4	24.5	25.7
70°	51.3	43.3	27.4	23.4	21.1	18.8	16.5	16.0	14.3	16.0	15.4
72.5°	33.1	29.1	21.1	17.7	16.0	13.1	10.8	10.3	8.6	8.0	8.0
75°	17.7	17.7	16.5	14.3	12.5	10.3	8.6	6.8	4.6	3.4	3.4
77.5°	12.5	13.7	14.8	13.7	11.4	8.6	6.8	4.6	2.3	1.1	1.1
80°	12.0	13.7	14.8	13.1	11.4	8.6	6.3	3.4	1.7	0.6	0.6
82.5°	10.8	12.5	13.7	12.0	10.3	7.4	5.7	3.4	1.7	0.6	0.6
85°	2.3	2.9	3.4	3.4	4.0	5.1	4.0	2.9	1.1	0.6	0.6
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.1	1.1	0.6	0.6	0.6
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)