

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: P534624

Luminaire Tested: **GALN-SA8A-AMB-U-SL4**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-8)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-AMB-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7509 lumens
Efficiency: N/A
Efficacy: 47.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 158.1
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

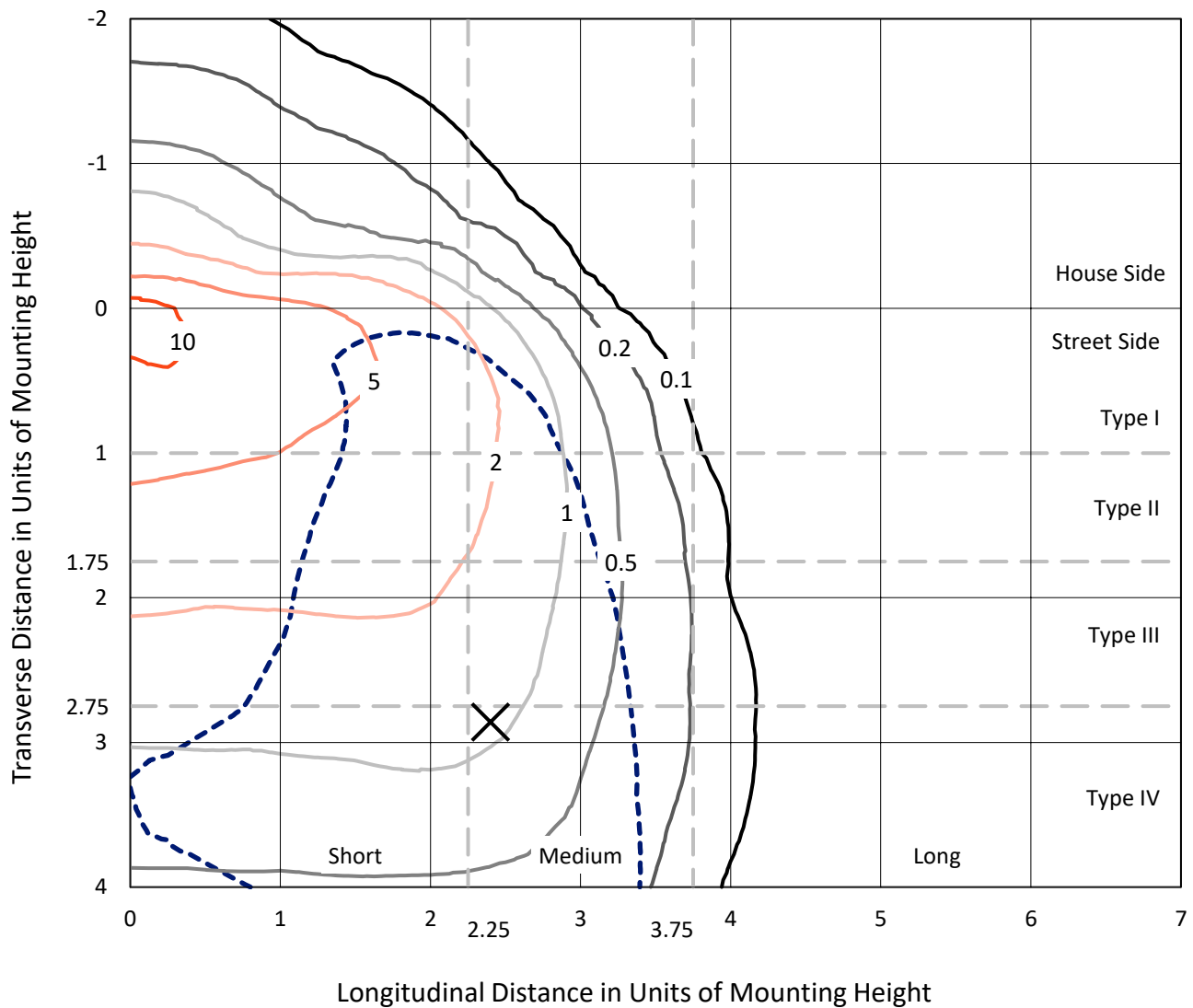


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

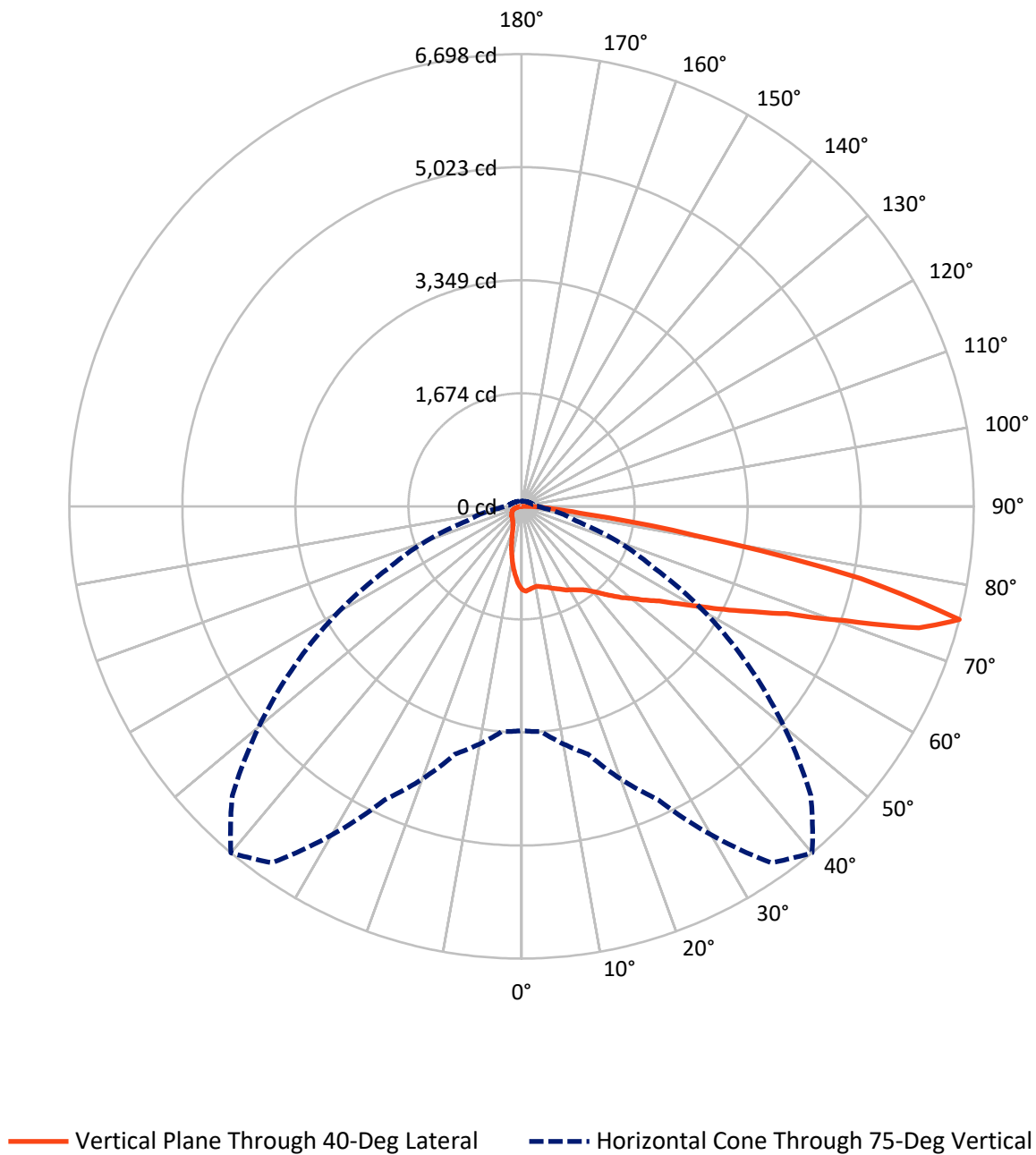


Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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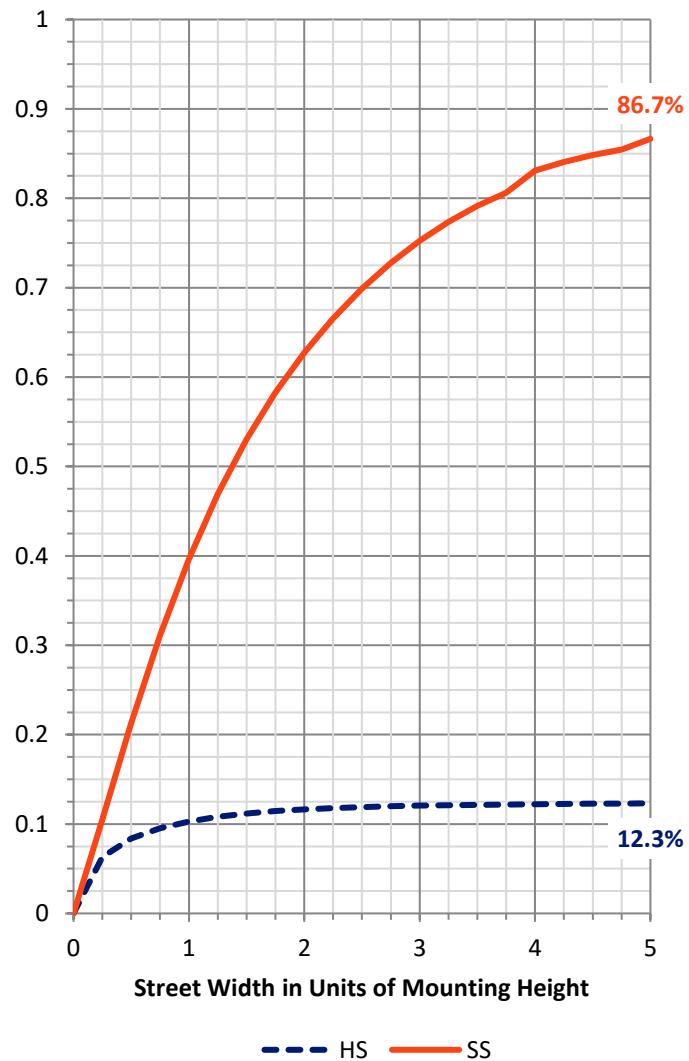
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	934.2	0.0	934.2
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	6574.8	0.0	6574.8
	% Fixture	87.6	0.0	87.6
Total	Lumens	7509.0	0.0	7509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	1.4
10°-20°	267.0	3.6
20°-30°	412.3	5.5
30°-40°	599.9	8.0
40°-50°	897.7	12.0
50°-60°	1341.3	17.9
60°-70°	1889.8	25.2
70°-80°	1738.7	23.2
80°-90°	256.4	3.4
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°	7509.0	100.0
0°-180°	7509.0	100.0

Coefficient of Utilization



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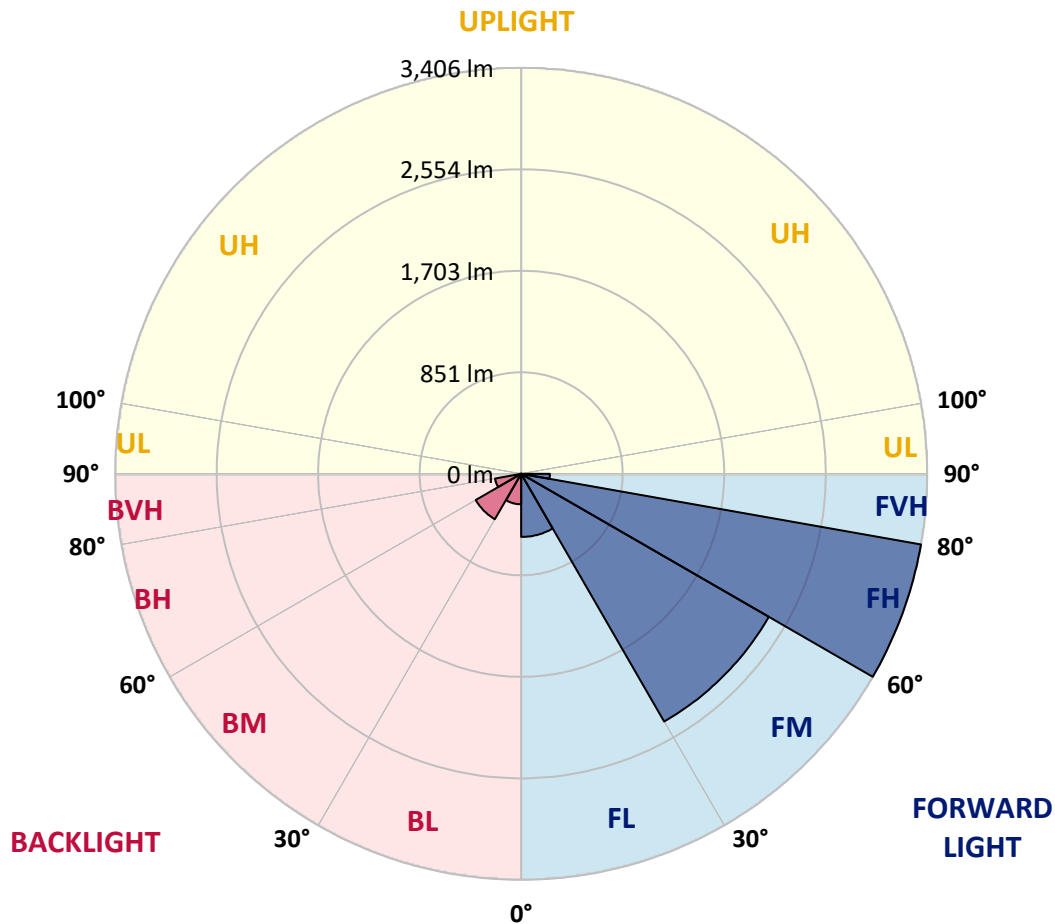
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	529.7	7.1			
FM	(30°-60°)	2399.1	31.9			
FH	(60°-80°)	3405.6	45.4			G2/5000
FVH	(80°-90°)	240.4	3.2			G3/500
BL	(0°-30°)	255.6	3.4	B1/500		
BM	(30°-60°)	439.7	5.9	B1/1000		
BH	(60°-80°)	222.8	3.0	B1/500		G1/500
BVH	(80°-90°)	16.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1232.9	1232.9	1232.9	1232.9	1232.9	1232.9	1232.9	1232.9	1232.9	1232.9	1232.9
2.5°	1256.7	1260.1	1256.7	1256.7	1249.9	1256.7	1246.5	1243.1	1236.3	1236.3	1222.7
5°	1239.7	1246.5	1239.7	1239.7	1236.3	1236.3	1226.1	1222.7	1212.6	1212.6	1195.6
7.5°	1212.6	1209.2	1212.6	1212.6	1212.6	1215.9	1209.2	1199.0	1195.6	1182.0	1175.2
10°	1185.4	1192.2	1188.8	1199.0	1202.4	1202.4	1202.4	1195.6	1188.8	1171.8	1161.6
12.5°	1158.2	1161.6	1182.0	1195.6	1212.6	1219.3	1215.9	1209.2	1199.0	1178.6	1151.4
15°	1165.0	1154.8	1175.2	1205.8	1229.5	1239.7	1226.1	1226.1	1202.4	1178.6	1151.4
17.5°	1161.6	1161.6	1188.8	1226.1	1256.7	1260.1	1260.1	1243.1	1219.3	1195.6	1151.4
20°	1178.6	1178.6	1212.6	1253.3	1287.3	1294.1	1290.7	1256.7	1229.5	1202.4	1175.2
22.5°	1212.6	1215.9	1249.9	1297.5	1314.4	1324.6	1314.4	1280.5	1249.9	1229.5	1185.4
25°	1266.9	1263.5	1290.7	1338.2	1365.4	1358.6	1358.6	1304.3	1270.3	1256.7	1219.3
27.5°	1314.4	1317.8	1334.8	1382.4	1396.0	1402.8	1389.2	1328.0	1297.5	1300.9	1256.7
30°	1379.0	1385.8	1396.0	1419.7	1429.9	1433.3	1433.3	1372.2	1338.2	1358.6	1297.5
32.5°	1460.5	1457.1	1460.5	1477.5	1460.5	1470.7	1467.3	1409.5	1392.6	1436.7	1362.0
35°	1548.8	1548.8	1538.6	1528.4	1501.3	1514.8	1514.8	1460.5	1467.3	1538.6	1429.9
37.5°	1640.5	1626.9	1609.9	1579.4	1559.0	1576.0	1586.2	1538.6	1569.2	1674.5	1555.6
40°	1725.4	1698.2	1664.3	1647.3	1633.7	1660.9	1674.5	1647.3	1691.5	1851.1	1722.0
42.5°	1776.4	1773.0	1732.2	1711.8	1725.4	1769.6	1776.4	1762.8	1851.1	2054.9	1908.8
45°	1840.9	1823.9	1786.6	1776.4	1834.1	1891.9	1912.2	1895.2	2031.1	2309.6	2105.8
47.5°	1881.7	1864.7	1834.1	1857.9	1942.8	2020.9	2065.1	2065.1	2241.7	2577.9	2319.8
50°	1922.4	1898.6	1881.7	1959.8	2048.1	2146.6	2207.7	2248.5	2469.3	2849.7	2567.8
52.5°	1993.7	1953.0	1936.0	2071.9	2180.6	2309.6	2411.5	2452.3	2734.2	3148.6	2805.5
55°	2088.8	2061.7	2010.7	2194.1	2336.8	2472.7	2601.7	2713.8	2992.3	3420.3	3002.5
57.5°	2190.7	2160.2	2119.4	2347.0	2557.6	2717.2	2846.3	3009.3	3294.6	3719.2	3182.5
60°	2323.2	2292.6	2262.1	2527.0	2822.5	2999.1	3162.1	3342.2	3617.3	3960.3	3332.0
62.5°	2452.3	2425.1	2421.7	2724.0	3128.2	3359.1	3491.6	3692.0	3916.2	4157.3	3399.9
65°	2611.9	2598.3	2591.5	2965.1	3522.2	3756.5	3899.2	4109.8	4262.6	4323.7	3308.2
67.5°	2761.4	2778.3	2836.1	3260.6	3950.1	4238.8	4456.2	4680.4	4629.4	4337.3	2832.7
70°	3043.3	3050.1	3185.9	3695.4	4626.0	5060.8	5312.1	5281.6	4677.0	3759.9	1929.2
72.5°	3342.2	3393.1	3644.4	4354.3	5665.4	6154.5	6229.2	5363.1	3950.1	2384.3	828.7
75°	3321.8	3348.9	3797.3	4795.9	6443.2	6697.9	6059.4	4092.8	2177.2	832.1	343.0
77.5°	2649.3	2724.0	3209.7	4238.8	5509.1	5138.9	3933.1	2034.5	696.3	305.7	207.2
80°	1243.1	1385.8	1681.3	2211.1	2968.5	2594.9	1681.3	828.7	349.8	197.0	146.0
82.5°	580.8	604.6	672.5	733.6	991.8	964.6	696.3	652.1	268.3	118.9	71.3
85°	397.4	431.4	478.9	421.2	455.1	451.7	482.3	645.3	186.8	67.9	44.2
87.5°	271.7	288.7	322.7	247.9	275.1	254.7	302.3	557.0	61.1	27.2	13.6
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°	1232.9	1232.9	1232.9	1232.9	1232.9	1232.9	1232.9	1232.9	1232.9	1232.9	1232.9
2.5°	1215.9	1209.2	1188.8	1185.4	1182.0	1161.6	1158.2	1148.0	1141.2	1137.8	1141.2
5°	1188.8	1178.6	1154.8	1134.4	1097.1	1063.1	1039.3	1015.6	998.6	1002.0	1002.0
7.5°	1165.0	1154.8	1117.4	1080.1	1015.6	968.0	910.3	866.1	838.9	818.6	825.3
10°	1148.0	1131.0	1083.5	1015.6	934.0	852.5	788.0	716.7	672.5	655.5	655.5
12.5°	1141.2	1120.8	1042.7	951.0	845.7	747.2	652.1	577.4	523.1	509.5	502.7
15°	1134.4	1097.1	998.6	879.7	750.6	638.5	536.6	465.3	404.2	380.4	383.8
17.5°	1131.0	1086.9	957.8	815.2	665.7	533.3	438.1	363.4	329.5	312.5	312.5
20°	1134.4	1076.7	923.8	737.0	570.6	441.5	353.2	309.1	288.7	278.5	281.9
22.5°	1144.6	1063.1	866.1	662.3	492.5	370.2	309.1	285.3	271.7	264.9	264.9
25°	1158.2	1063.1	828.7	580.8	421.2	326.1	281.9	268.3	258.1	258.1	251.3
27.5°	1185.4	1066.5	777.8	512.9	363.4	292.1	268.3	254.7	247.9	247.9	247.9
30°	1199.0	1063.1	730.2	451.7	319.3	271.7	251.3	247.9	244.5	237.8	237.8
32.5°	1232.9	1059.7	675.9	397.4	288.7	254.7	241.2	237.8	234.4	231.0	231.0
35°	1290.7	1073.3	608.0	353.2	264.9	241.2	231.0	227.6	224.2	224.2	220.8
37.5°	1362.0	1093.7	560.4	315.9	247.9	227.6	220.8	217.4	217.4	217.4	217.4
40°	1474.1	1137.8	519.7	292.1	234.4	217.4	210.6	210.6	210.6	207.2	207.2
42.5°	1599.8	1192.2	485.7	275.1	227.6	210.6	203.8	200.4	200.4	200.4	200.4
45°	1749.2	1249.9	455.1	261.5	224.2	207.2	200.4	193.6	193.6	193.6	190.2
47.5°	1908.8	1317.8	431.4	254.7	217.4	203.8	193.6	190.2	186.8	183.4	183.4
50°	2082.1	1396.0	421.2	251.3	214.0	197.0	186.8	183.4	180.0	173.2	173.2
52.5°	2245.1	1474.1	428.0	247.9	210.6	190.2	180.0	180.0	173.2	166.4	169.8
55°	2377.5	1548.8	434.8	247.9	207.2	180.0	173.2	173.2	166.4	159.6	159.6
57.5°	2496.4	1603.1	438.1	251.3	207.2	173.2	163.0	166.4	159.6	156.2	156.2
60°	2584.7	1623.5	438.1	258.1	207.2	166.4	152.8	159.6	156.2	149.4	152.8
62.5°	2577.9	1542.0	407.6	261.5	207.2	163.0	146.0	152.8	159.6	152.8	152.8
65°	2347.0	1229.5	353.2	244.5	203.8	159.6	135.9	146.0	156.2	152.8	152.8
67.5°	1776.4	815.2	285.3	220.8	186.8	152.8	129.1	129.1	139.3	135.9	139.3
70°	1039.3	441.5	234.4	190.2	163.0	139.3	118.9	112.1	112.1	112.1	112.1
72.5°	428.0	258.1	190.2	159.6	139.3	118.9	105.3	95.1	91.7	91.7	91.7
75°	237.8	190.2	156.2	129.1	112.1	98.5	91.7	81.5	78.1	78.1	78.1
77.5°	173.2	156.2	125.7	98.5	84.9	78.1	71.3	67.9	64.5	64.5	64.5
80°	132.5	122.3	95.1	74.7	64.5	54.3	54.3	50.9	50.9	50.9	50.9
82.5°	78.1	91.7	67.9	50.9	47.6	40.8	37.4	37.4	37.4	34.0	34.0
85°	50.9	67.9	40.8	30.6	23.8	20.4	23.8	20.4	20.4	17.0	17.0
87.5°	10.2	20.4	10.2	3.4	3.4	3.4	3.4	3.4	3.4	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)