

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: P534596

Luminaire Tested: **GALN-SA5A-AMB-U-SL2**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-AMB-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5283 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 100.1
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

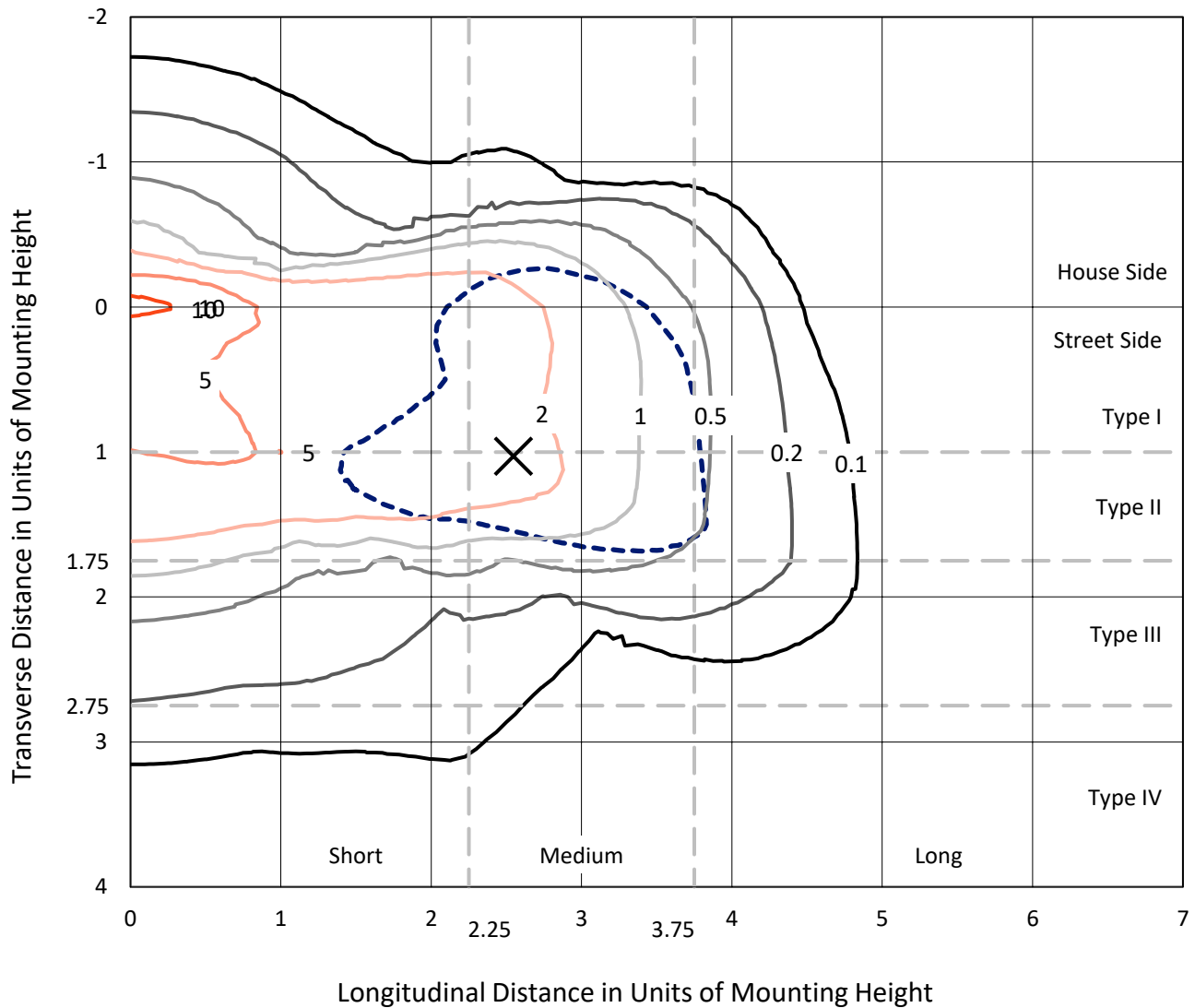


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

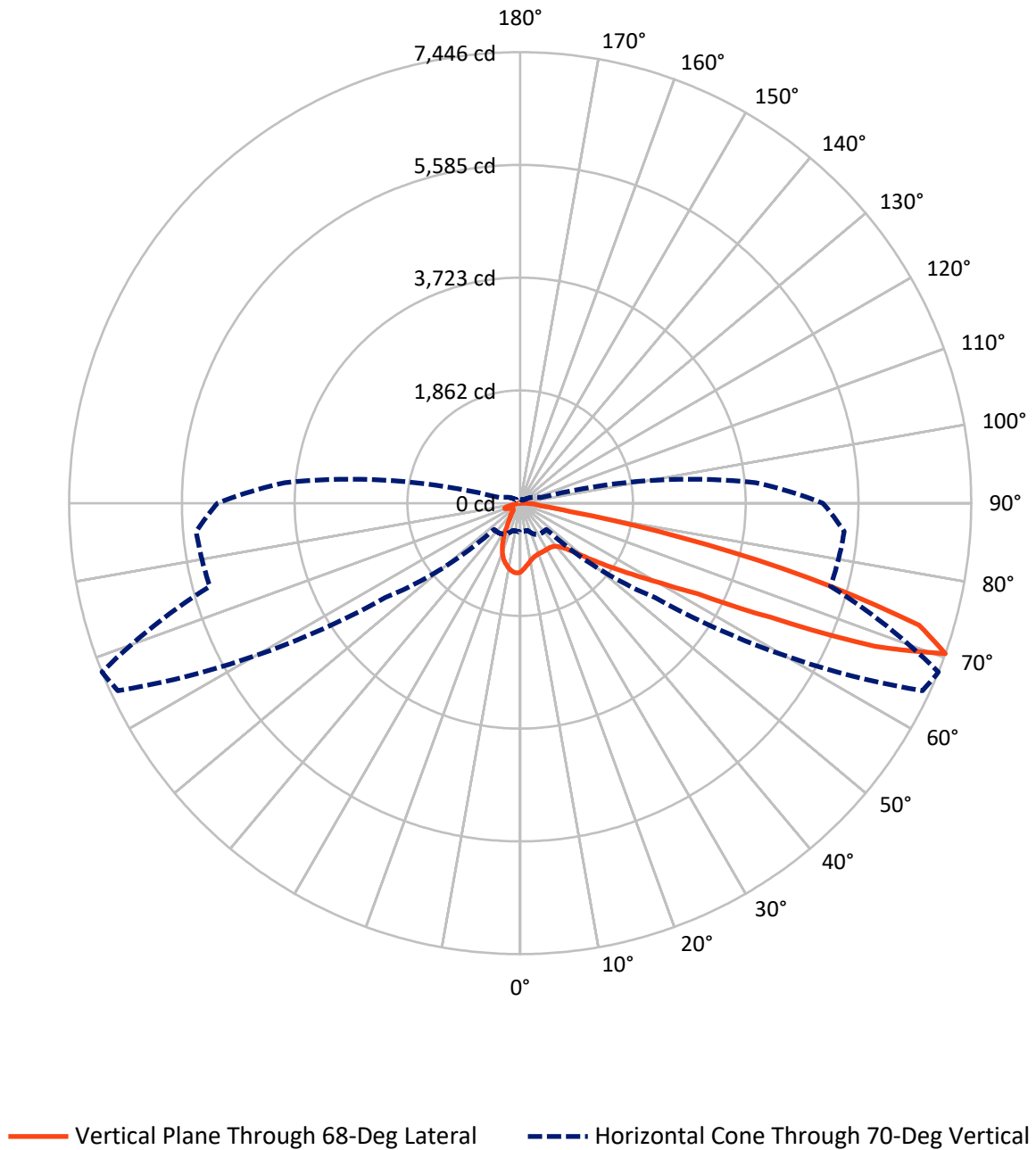


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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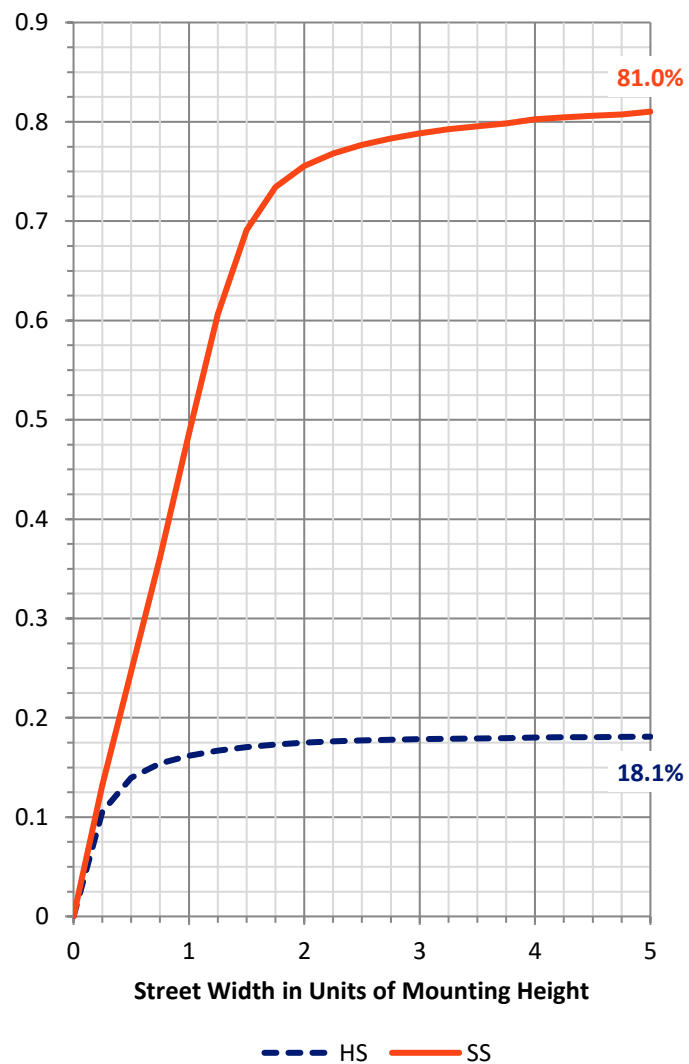
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	966.3	0.0	966.3
	% Fixture	18.3	0.0	18.3
Street Side	Lumens	4316.7	0.0	4316.7
	% Fixture	81.7	0.0	81.7
Total	Lumens	5283.0	0.0	5283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	1.8
10°-20°	221.9	4.2
20°-30°	298.9	5.7
30°-40°	410.9	7.8
40°-50°	624.6	11.8
50°-60°	1038.4	19.7
60°-70°	1459.8	27.6
70°-80°	1010.1	19.1
80°-90°	121.6	2.3
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°	5283.0	100.0
0°-180°	5283.0	100.0

Coefficient of Utilization



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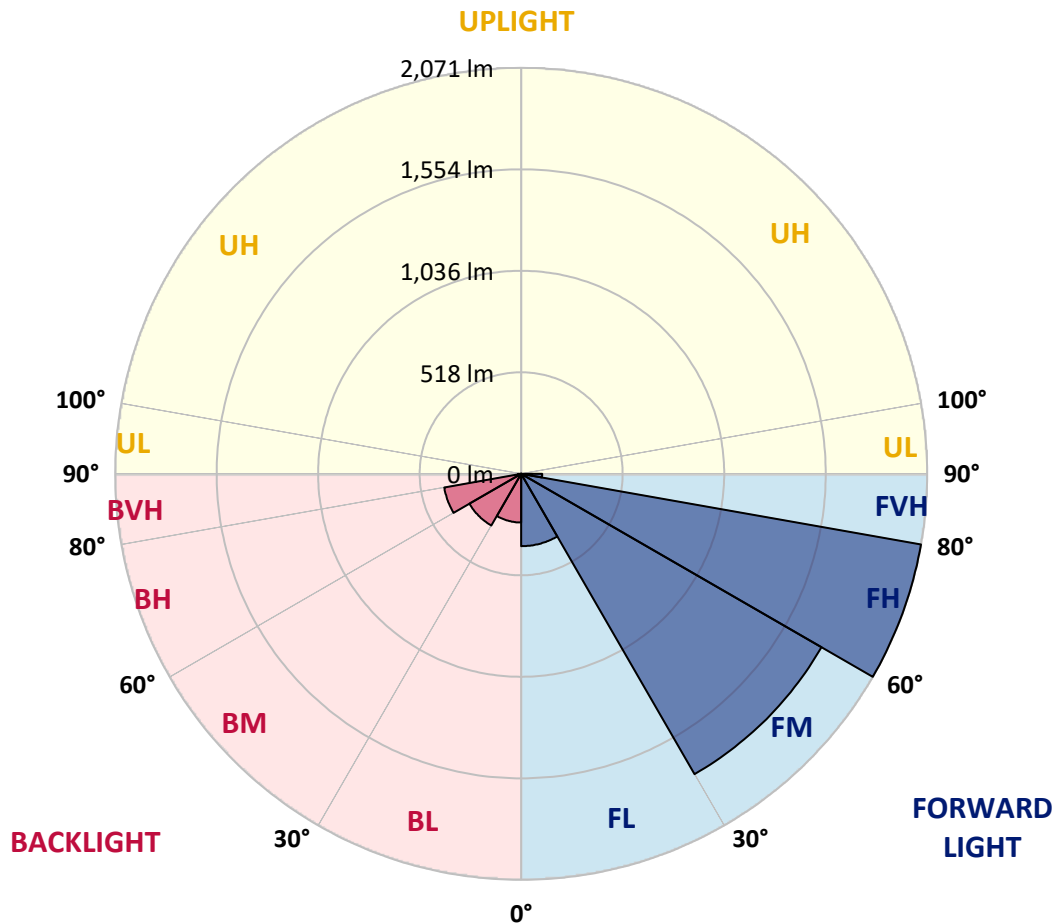
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	369.1	7.0			
FM	(30°-60°)	1769.3	33.5			
FH	(60°-80°)	2071.4	39.2			G2/5000
FVH	(80°-90°)	106.9	2.0			G2/225
BL	(0°-30°)	248.4	4.7	B1/500		
BM	(30°-60°)	304.6	5.8	B1/1000		
BH	(60°-80°)	398.6	7.5	B1/500		G1/500
BVH	(80°-90°)	14.7	0.3			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3
2.5°	1031.9	1029.6	1034.3	1034.3	1041.2	1055.1	1064.4	1080.6	1092.2	1103.8	1117.7
5°	950.8	948.5	957.7	960.0	978.6	999.5	1013.4	1036.6	1041.2	1064.4	1096.9
7.5°	885.8	885.8	888.2	899.8	913.7	929.9	955.4	985.6	1004.1	1031.9	1089.9
10°	834.8	832.5	839.5	844.1	865.0	883.5	911.3	946.1	962.4	994.8	1076.0
12.5°	793.1	790.8	795.4	804.7	823.2	839.5	869.6	920.6	932.2	971.6	1073.7
15°	765.3	762.9	765.3	774.5	790.8	814.0	846.4	888.2	909.0	962.4	1080.6
17.5°	756.0	753.7	751.3	753.7	769.9	786.1	827.9	876.6	897.4	960.0	1094.5
20°	762.9	758.3	753.7	753.7	756.0	776.8	818.6	865.0	890.5	950.8	1113.1
22.5°	783.8	781.5	772.2	760.6	756.0	772.2	811.6	865.0	885.8	953.1	1124.7
25°	820.9	816.3	807.0	790.8	774.5	776.8	814.0	862.7	883.5	953.1	1140.9
27.5°	865.0	858.0	851.1	834.8	802.4	788.4	811.6	869.6	881.2	946.1	1152.5
30°	932.2	929.9	916.0	895.1	851.1	809.3	825.5	865.0	881.2	939.2	1159.5
32.5°	1013.4	1011.1	1001.8	978.6	916.0	851.1	841.8	869.6	881.2	936.9	1166.4
35°	1094.5	1092.2	1099.2	1080.6	1011.1	909.0	871.9	883.5	888.2	941.5	1166.4
37.5°	1168.8	1166.4	1173.4	1194.3	1124.7	992.5	918.3	904.4	904.4	948.5	1178.0
40°	1247.6	1249.9	1280.1	1300.9	1268.5	1094.5	978.6	943.8	939.2	983.2	1198.9
42.5°	1338.0	1328.8	1382.1	1430.8	1398.3	1231.4	1073.7	1004.1	990.2	1029.6	1245.3
45°	1400.6	1423.8	1472.5	1567.6	1565.3	1393.7	1210.5	1106.1	1080.6	1106.1	1331.1
47.5°	1530.5	1528.2	1593.1	1716.0	1746.2	1590.8	1368.2	1245.3	1210.5	1224.4	1444.7
50°	1692.8	1685.9	1762.4	1896.9	1989.7	1811.1	1581.5	1437.8	1398.3	1398.3	1618.6
52.5°	1792.5	1799.5	1859.8	2040.7	2270.3	2138.1	1818.1	1669.6	1630.2	1632.5	1845.9
55°	1734.6	1741.5	1811.1	2024.4	2414.0	2659.8	2124.2	1975.7	1906.2	1878.4	2158.9
57.5°	1491.1	1477.2	1532.8	1783.3	2349.1	3058.7	2748.0	2330.5	2251.7	2205.3	2516.1
60°	1108.5	1099.2	1103.8	1261.5	1945.6	3177.0	3747.4	2822.2	2680.7	2576.4	2952.0
62.5°	841.8	841.8	832.5	839.5	1159.5	2956.7	4547.5	3752.1	3290.6	2996.1	3397.3
65°	688.7	679.5	693.4	686.4	698.0	1945.6	4923.1	5305.8	4542.8	3568.9	4028.0
67.5°	561.2	551.9	561.2	637.7	609.9	855.7	4396.7	6838.6	6312.2	4287.7	4705.2
70°	477.7	466.1	466.1	568.1	605.2	612.2	2715.5	7327.9	7446.2	5303.4	5368.4
72.5°	357.1	359.4	364.1	489.3	605.2	589.0	1134.0	6432.8	6885.0	5630.4	5143.4
75°	236.5	238.9	252.8	359.4	626.1	598.3	623.8	4327.2	4913.9	4315.6	3573.5
77.5°	157.7	157.7	171.6	234.2	547.3	616.8	582.1	2274.9	2696.9	2038.4	1168.8
80°	106.7	106.7	111.3	157.7	380.3	651.6	575.1	883.5	832.5	431.3	236.5
82.5°	62.6	62.6	74.2	106.7	224.9	640.0	570.5	463.8	345.5	160.0	125.2
85°	30.1	30.1	44.1	64.9	125.2	480.0	542.6	391.9	259.7	106.7	74.2
87.5°	9.3	9.3	18.6	32.5	58.0	248.1	368.7	269.0	129.9	41.7	25.5
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°	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3	1136.3
2.5°	1129.3	1136.3	1143.2	1159.5	1159.5	1159.5	1150.2	1152.5	1147.9	1152.5	1154.8
5°	1122.4	1136.3	1157.2	1145.6	1138.6	1120.1	1094.5	1071.4	1059.8	1059.8	1048.2
7.5°	1115.4	1134.0	1143.2	1122.4	1083.0	1034.3	997.1	955.4	932.2	922.9	922.9
10°	1113.1	1143.2	1138.6	1080.6	1013.4	939.2	865.0	800.0	746.7	728.2	721.2
12.5°	1122.4	1154.8	1115.4	1022.7	929.9	818.6	711.9	607.6	538.0	507.9	505.5
15°	1145.6	1166.4	1089.9	969.3	827.9	681.8	547.3	422.0	368.7	350.2	347.8
17.5°	1159.5	1171.1	1059.8	899.8	716.6	524.1	368.7	303.8	294.5	294.5	296.8
20°	1173.4	1166.4	1011.1	820.9	586.7	357.1	252.8	236.5	243.5	257.4	259.7
22.5°	1187.3	1138.6	957.7	714.2	415.1	229.6	199.4	197.1	211.0	231.9	234.2
25°	1180.3	1108.5	885.8	593.7	257.4	183.2	171.6	176.2	185.5	199.4	201.7
27.5°	1166.4	1080.6	827.9	461.5	180.9	162.3	160.0	162.3	167.0	173.9	178.6
30°	1152.5	1055.1	758.3	310.7	162.3	155.4	153.1	153.1	153.1	157.7	160.0
32.5°	1136.3	1018.0	684.1	204.1	153.1	148.4	146.1	143.8	143.8	143.8	143.8
35°	1120.1	990.2	609.9	164.6	146.1	141.5	139.1	134.5	134.5	132.2	134.5
37.5°	1106.1	960.0	512.5	153.1	139.1	136.8	132.2	127.5	125.2	127.5	125.2
40°	1110.8	950.8	412.8	146.1	136.8	132.2	125.2	122.9	120.6	122.9	122.9
42.5°	1129.3	936.9	317.7	141.5	132.2	125.2	120.6	115.9	115.9	118.3	118.3
45°	1171.1	941.5	241.2	136.8	127.5	122.9	115.9	113.6	113.6	113.6	113.6
47.5°	1254.6	978.6	201.7	134.5	125.2	118.3	113.6	109.0	109.0	109.0	106.7
50°	1379.8	1038.9	187.8	134.5	122.9	118.3	111.3	104.4	102.0	102.0	102.0
52.5°	1556.0	1150.2	187.8	132.2	120.6	113.6	106.7	99.7	97.4	95.1	95.1
55°	1815.7	1296.3	192.5	132.2	115.9	111.3	102.0	95.1	90.4	90.4	90.4
57.5°	2175.2	1558.3	190.2	129.9	113.6	104.4	95.1	90.4	85.8	83.5	83.5
60°	2611.1	1901.5	187.8	127.5	111.3	97.4	88.1	83.5	78.8	78.8	78.8
62.5°	3119.0	2400.1	199.4	132.2	109.0	90.4	83.5	78.8	74.2	74.2	74.2
65°	3786.8	3012.3	299.1	141.5	106.7	85.8	76.5	71.9	69.6	69.6	69.6
67.5°	4540.5	3805.4	352.5	173.9	109.0	78.8	69.6	67.2	64.9	62.6	64.9
70°	4997.3	3898.2	352.5	229.6	125.2	71.9	62.6	60.3	60.3	58.0	58.0
72.5°	4452.4	3218.7	333.9	241.2	136.8	67.2	58.0	55.7	53.3	51.0	51.0
75°	2894.1	1818.1	287.6	197.1	115.9	60.3	51.0	48.7	46.4	46.4	46.4
77.5°	874.2	535.7	190.2	139.1	76.5	51.0	44.1	41.7	39.4	39.4	37.1
80°	218.0	176.2	90.4	76.5	48.7	39.4	34.8	32.5	30.1	30.1	30.1
82.5°	118.3	109.0	55.7	44.1	34.8	27.8	27.8	25.5	23.2	20.9	20.9
85°	71.9	64.9	39.4	27.8	20.9	16.2	16.2	16.2	13.9	13.9	11.6
87.5°	25.5	27.8	18.6	9.3	7.0	7.0	4.6	4.6	4.6	2.3	2.3
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)