

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: P458610

Luminaire Tested: **GALN-SA1D-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5998 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

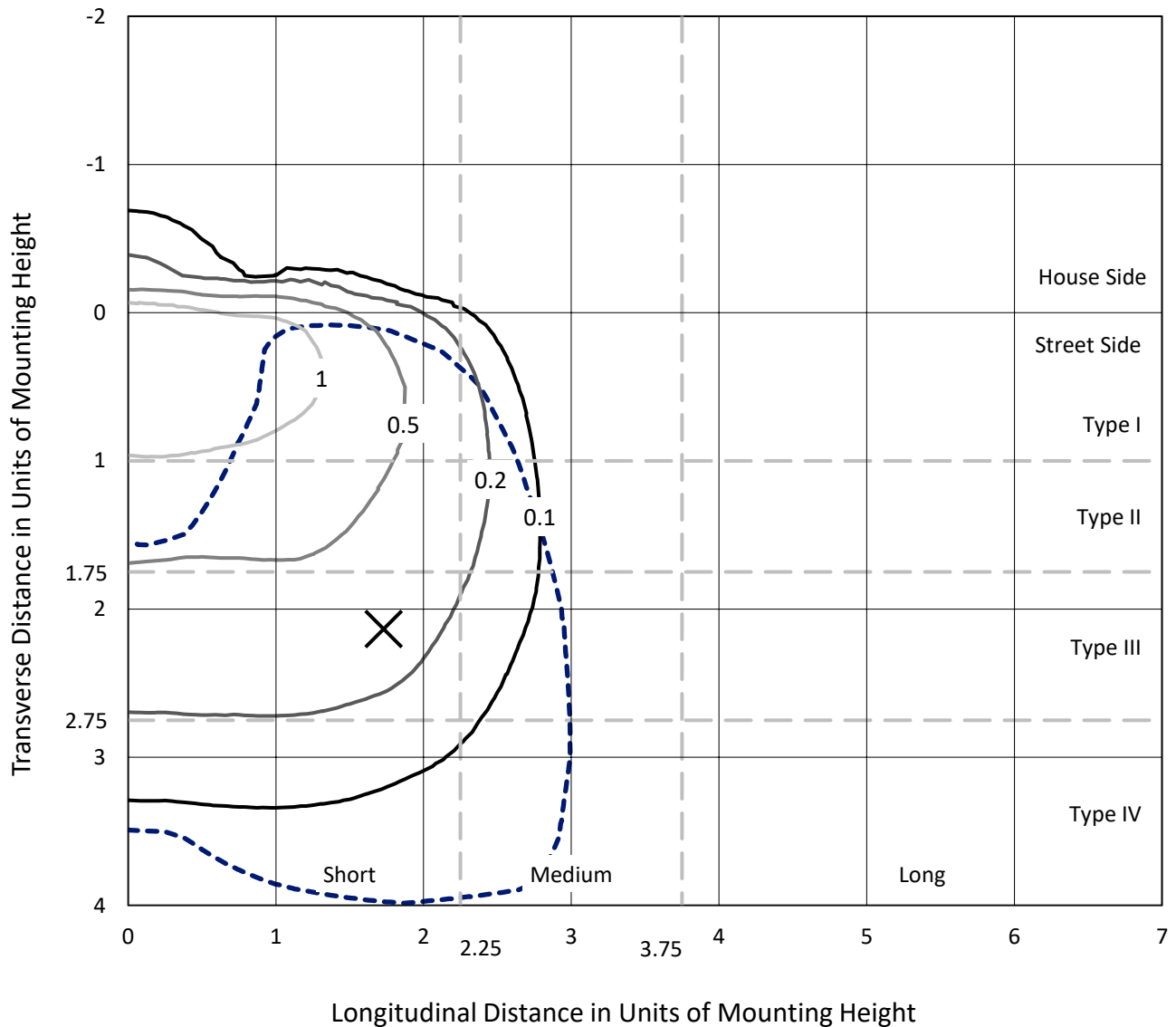
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

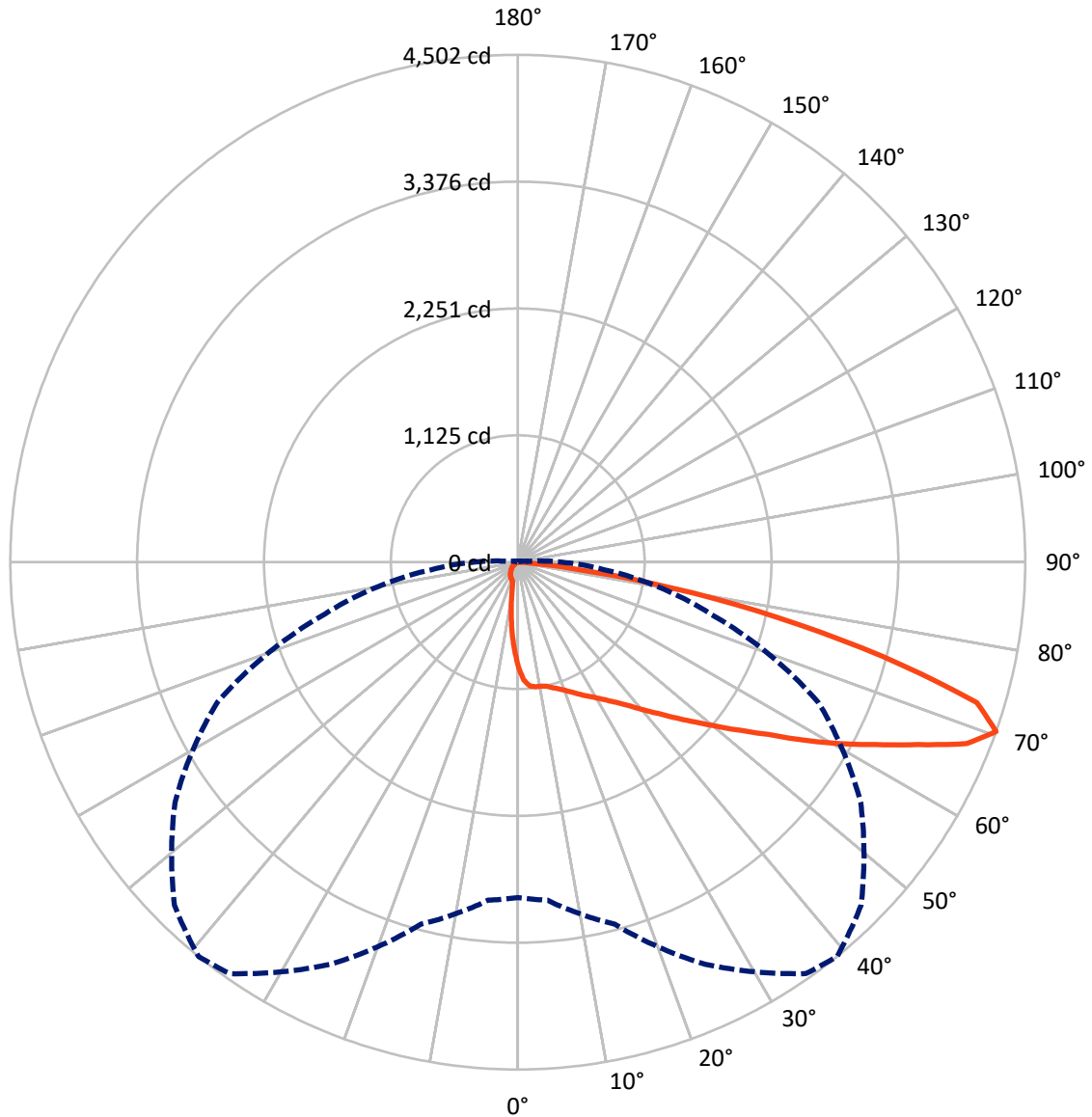
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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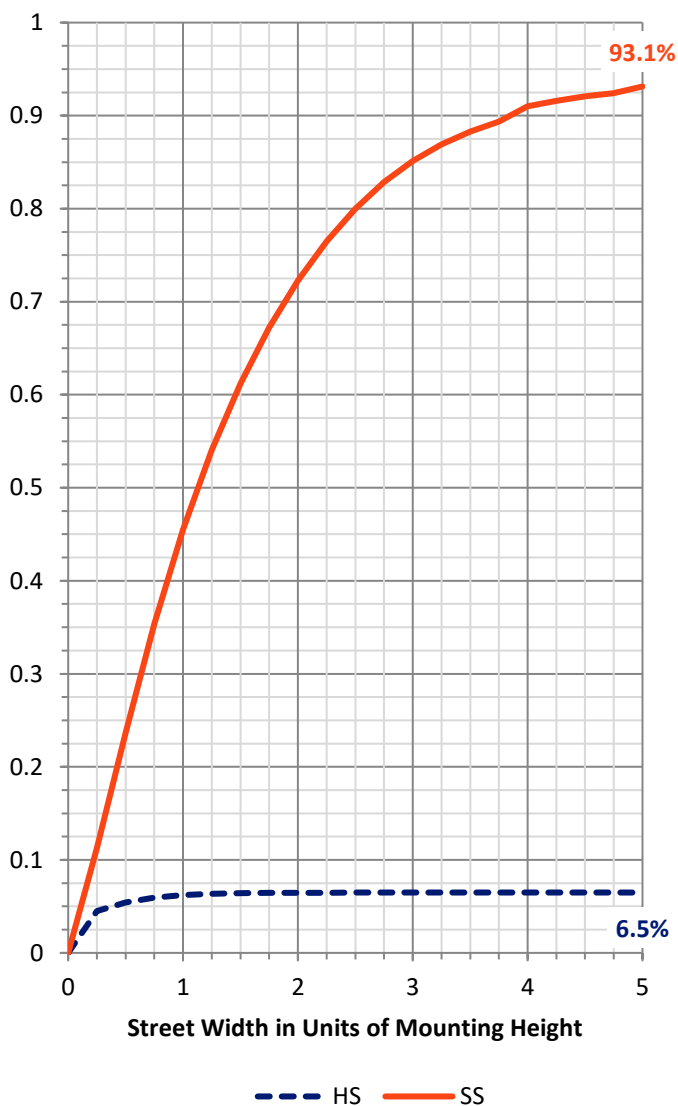
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	391.1	0.0	391.1
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	5606.9	0.0	5606.9
	% Fixture	93.5	0.0	93.5
Total	Lumens	5998.0	0.0	5998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	1.3
10°-20°	207.4	3.5
20°-30°	347.5	5.8
30°-40°	539.0	9.0
40°-50°	854.1	14.2
50°-60°	1252.0	20.9
60°-70°	1604.7	26.8
70°-80°	1008.4	16.8
80°-90°	105.0	1.8
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°	5998.0	100.0
0°-180°	5998.0	100.0

Coefficient of Utilization

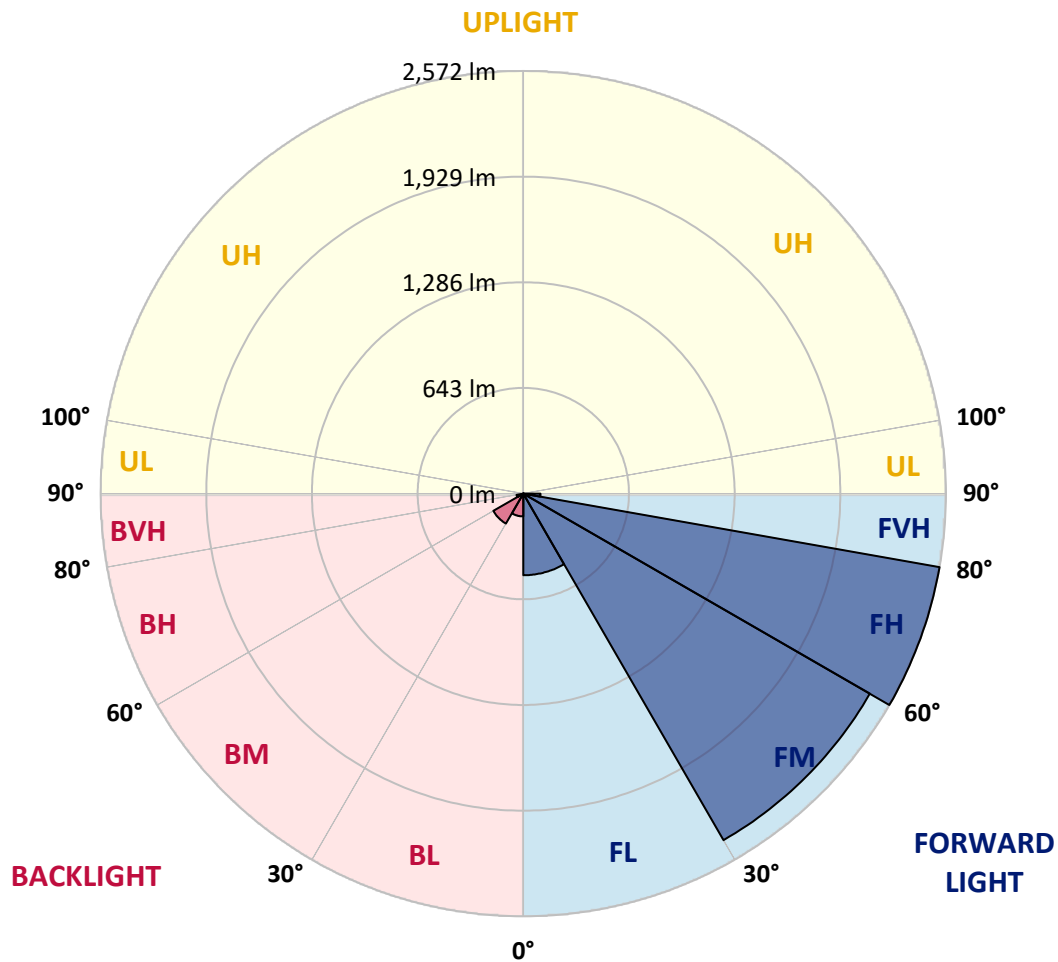


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.3	8.3			
FM (30°-60°)	2434.6	40.6			
FH (60°-80°)	2571.7	42.9			G2/5000
FVH (80°-90°)	104.3	1.7			G2/225
BL (0°-30°)	138.5	2.3	B1/500		
BM (30°-60°)	210.5	3.5	B0/220		
BH (60°-80°)	41.4	0.7	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	935.9	935.9	935.9	935.9	935.9	935.9	935.9	935.9	935.9	935.9	935.9
2.5°	1081.4	1077.8	1072.9	1067.3	1051.2	1048.3	1038.7	1018.1	993.5	973.4	945.6
5°	1132.6	1134.6	1131.0	1120.9	1109.2	1102.4	1090.3	1058.4	1026.6	985.9	940.3
7.5°	1144.3	1148.3	1143.9	1134.2	1122.9	1115.7	1106.0	1078.6	1041.5	995.1	932.7
10°	1143.1	1147.9	1145.1	1136.2	1126.9	1120.1	1109.6	1087.8	1058.0	1009.2	935.1
12.5°	1141.0	1147.5	1147.1	1142.7	1135.0	1129.8	1123.3	1104.0	1076.2	1029.8	948.4
15°	1135.4	1143.5	1150.7	1154.3	1154.8	1154.8	1146.7	1126.1	1099.5	1056.8	965.7
17.5°	1137.8	1147.1	1165.2	1175.7	1183.0	1182.2	1173.7	1151.5	1122.1	1084.6	983.9
20°	1152.7	1165.2	1190.6	1211.6	1218.8	1216.4	1205.1	1179.3	1145.9	1108.4	1001.6
22.5°	1189.4	1200.7	1232.5	1257.1	1262.4	1255.9	1239.8	1204.7	1174.5	1134.2	1023.0
25°	1244.2	1257.5	1287.0	1305.5	1305.5	1301.9	1279.3	1238.2	1206.7	1170.1	1050.8
27.5°	1310.7	1322.0	1351.0	1367.6	1357.9	1347.4	1324.8	1275.3	1245.0	1215.2	1084.2
30°	1378.0	1385.3	1415.9	1423.2	1413.1	1399.8	1375.6	1326.1	1299.4	1276.5	1132.6
32.5°	1441.7	1457.4	1482.8	1481.2	1467.5	1461.1	1438.9	1386.1	1371.2	1368.8	1200.3
35°	1505.4	1517.5	1540.1	1545.7	1533.6	1532.4	1516.3	1477.2	1477.6	1493.3	1305.9
37.5°	1560.2	1571.1	1597.7	1610.2	1612.6	1618.7	1612.2	1586.4	1623.1	1666.2	1445.8
40°	1606.2	1621.5	1655.3	1677.1	1702.1	1724.3	1725.5	1731.1	1804.9	1879.0	1628.3
42.5°	1642.0	1663.4	1712.6	1752.9	1810.1	1838.3	1860.9	1891.9	2016.1	2126.9	1843.6
45°	1688.8	1713.4	1774.7	1837.9	1927.4	1973.8	2005.2	2088.2	2264.4	2415.5	2064.4
47.5°	1766.2	1779.1	1841.6	1933.9	2051.6	2117.7	2178.9	2304.7	2530.8	2666.2	2248.2
50°	1865.7	1874.2	1921.4	2049.5	2201.9	2288.9	2400.6	2548.5	2807.3	2874.2	2352.2
52.5°	1975.8	1978.6	2014.1	2176.9	2370.4	2480.0	2604.9	2787.5	3032.6	3022.5	2421.2
55°	2103.5	2099.5	2129.7	2315.1	2569.9	2695.2	2840.7	3032.2	3228.1	3127.7	2460.7
57.5°	2249.9	2239.0	2268.4	2498.5	2825.4	2975.4	3123.3	3243.4	3379.6	3216.0	2479.6
60°	2403.0	2381.2	2416.3	2704.5	3126.5	3268.8	3391.7	3424.0	3539.2	3286.1	2446.9
62.5°	2525.1	2525.5	2590.8	2923.8	3436.0	3560.6	3625.9	3654.9	3676.7	3270.8	2275.2
65°	2715.8	2722.2	2826.6	3228.1	3794.4	3902.4	3947.1	3852.8	3682.7	3080.5	2017.3
67.5°	2912.5	2933.0	3124.1	3647.2	4208.3	4295.4	4237.7	3891.1	3518.3	2646.5	1529.6
70°	2976.6	3010.4	3325.2	3935.8	4456.6	4501.7	4306.6	3712.5	2941.1	1769.4	769.8
72.5°	2727.5	2782.3	3209.5	3830.6	4298.2	4259.1	3853.2	3113.6	1869.8	671.9	235.0
75°	1923.4	1947.6	2667.4	3177.7	3457.0	3346.2	2931.0	2007.2	769.0	188.6	80.6
77.5°	993.1	981.4	1586.4	2108.4	2465.5	2350.6	1919.3	1039.1	291.4	78.6	50.0
80°	513.5	522.0	686.4	1104.8	1505.0	1384.9	1023.4	481.7	155.2	43.5	38.3
82.5°	287.8	270.0	394.6	482.5	703.7	551.8	392.6	341.0	67.7	26.2	36.3
85°	52.4	54.8	216.4	260.8	244.3	155.2	126.6	227.7	19.7	14.5	25.4
87.5°	0.8	0.8	41.9	75.0	47.6	21.8	39.9	32.6	4.0	5.6	4.4
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°	935.9	935.9	935.9	935.9	935.9	935.9	935.9	935.9	935.9	935.9	935.9
2.5°	931.5	916.1	887.5	859.3	823.4	794.0	774.3	753.7	732.8	734.4	739.2
5°	915.3	888.7	832.3	772.7	715.4	663.8	613.0	567.5	549.0	532.0	532.8
7.5°	899.2	861.7	779.1	685.6	598.9	511.1	447.4	395.0	367.2	346.2	340.2
10°	892.0	842.4	730.3	601.8	478.8	382.9	301.1	258.4	225.3	214.8	217.6
12.5°	895.2	832.7	686.4	526.0	379.7	266.8	209.6	187.8	180.6	179.4	178.6
15°	901.2	825.9	643.3	442.2	278.9	198.3	176.1	172.1	171.3	170.5	170.9
17.5°	909.3	819.8	597.3	363.6	214.0	173.3	166.9	164.8	164.4	164.4	164.4
20°	917.4	813.0	546.1	293.4	178.6	163.6	159.6	158.4	158.0	158.0	157.6
22.5°	926.6	806.9	494.1	230.5	164.4	156.8	153.2	152.4	152.0	151.5	151.5
25°	939.9	799.3	438.9	188.6	155.6	150.3	146.7	145.9	145.5	143.9	144.3
27.5°	957.7	793.6	382.1	162.8	147.5	142.3	139.9	138.7	137.8	136.6	137.0
30°	981.8	788.8	321.6	148.7	138.2	133.8	131.4	130.6	129.8	128.6	128.6
32.5°	1023.8	790.8	258.0	137.4	129.8	124.5	122.1	121.3	120.5	119.3	119.3
35°	1086.6	802.5	206.4	127.8	119.7	114.5	112.0	112.0	110.8	109.2	108.8
37.5°	1189.4	832.3	165.7	118.5	110.0	105.2	102.4	101.6	100.4	97.9	97.5
40°	1310.7	878.7	139.5	109.2	101.2	96.3	93.9	91.5	88.3	85.9	85.4
42.5°	1463.1	926.2	120.9	100.0	92.7	88.3	85.4	81.4	76.6	73.4	73.0
45°	1621.9	969.8	108.4	91.5	84.6	81.0	77.8	71.3	65.3	61.3	60.9
47.5°	1740.4	977.8	98.3	83.4	77.8	74.2	69.7	61.7	53.6	50.0	48.8
50°	1796.4	938.7	87.9	75.4	70.9	66.9	61.3	52.0	43.1	38.7	37.9
52.5°	1816.2	871.0	79.4	68.1	64.1	59.2	52.4	41.9	33.9	29.4	29.0
55°	1808.1	785.6	71.7	61.3	56.0	50.4	43.5	33.5	25.0	21.4	20.6
57.5°	1765.8	676.7	64.1	54.4	48.0	42.3	34.7	25.0	16.9	13.7	13.3
60°	1651.7	528.4	56.4	46.8	40.7	34.7	27.4	17.7	10.5	7.7	7.7
62.5°	1459.1	392.2	49.2	39.1	34.3	27.8	19.3	11.3	5.6	4.0	3.6
65°	1219.2	289.4	41.1	33.1	28.6	21.8	13.7	6.9	2.8	1.2	0.8
67.5°	850.8	178.6	34.3	27.0	23.4	15.7	8.5	2.8	1.2	0.0	0.0
70°	386.5	85.0	26.2	20.6	17.7	11.3	4.4	1.6	0.8	0.0	0.0
72.5°	120.1	44.7	18.5	14.9	12.1	7.3	2.4	1.2	0.8	0.0	0.0
75°	55.6	28.6	11.7	8.1	6.9	3.6	1.6	0.8	0.4	0.0	0.0
77.5°	41.5	22.2	6.9	4.4	3.6	2.4	1.2	0.8	0.4	0.0	0.0
80°	36.3	11.3	4.0	2.8	2.0	1.6	0.8	0.4	0.0	0.0	0.0
82.5°	32.6	5.6	2.4	1.6	1.2	0.8	0.4	0.4	0.0	0.0	0.0
85°	17.7	3.2	1.6	1.2	0.8	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	1.2	0.8	0.8	0.4	0.4	0.4	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)