

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: P453198

Luminaire Tested: **GALN-SA4B-722-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-722-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12149 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

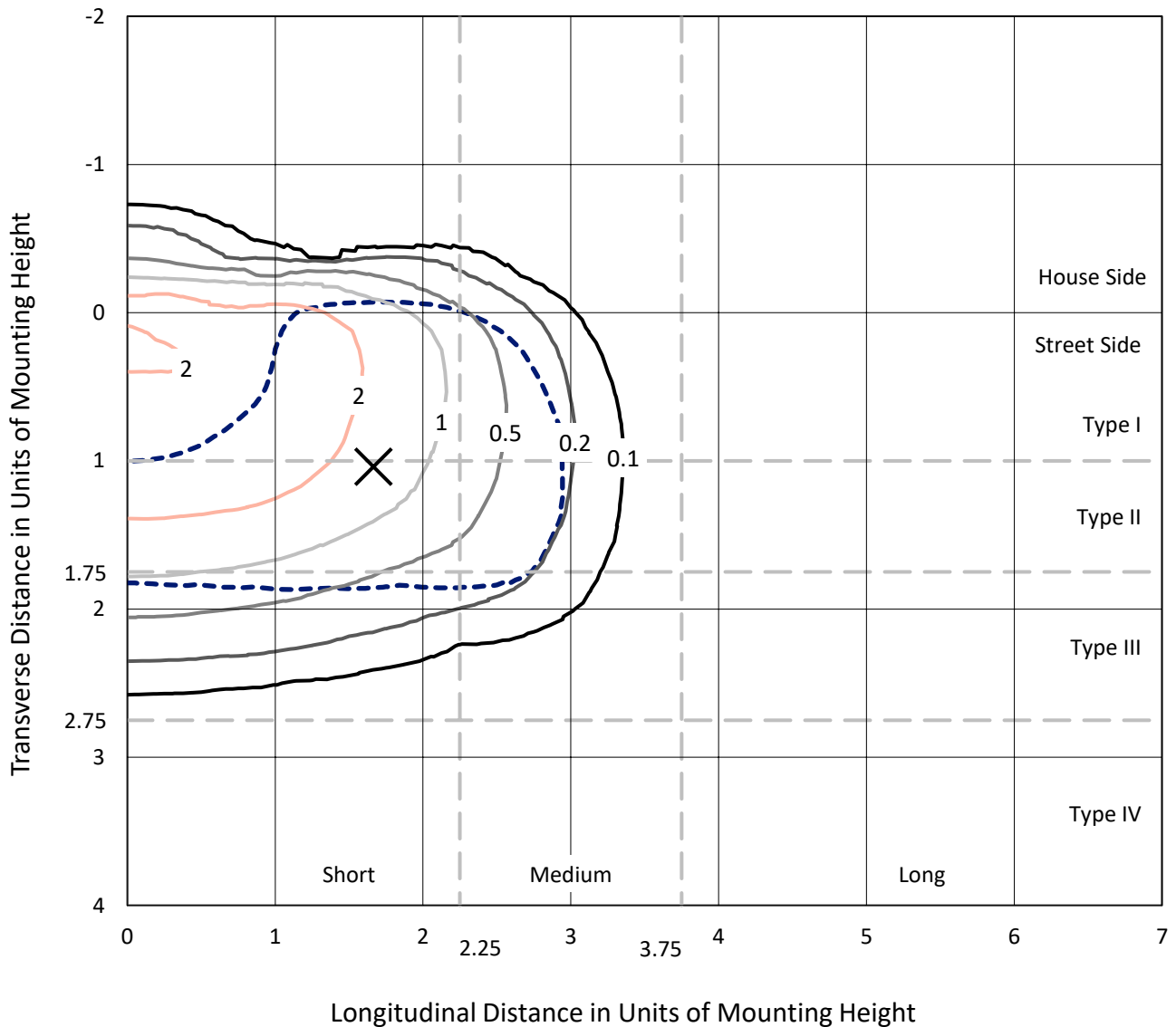
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

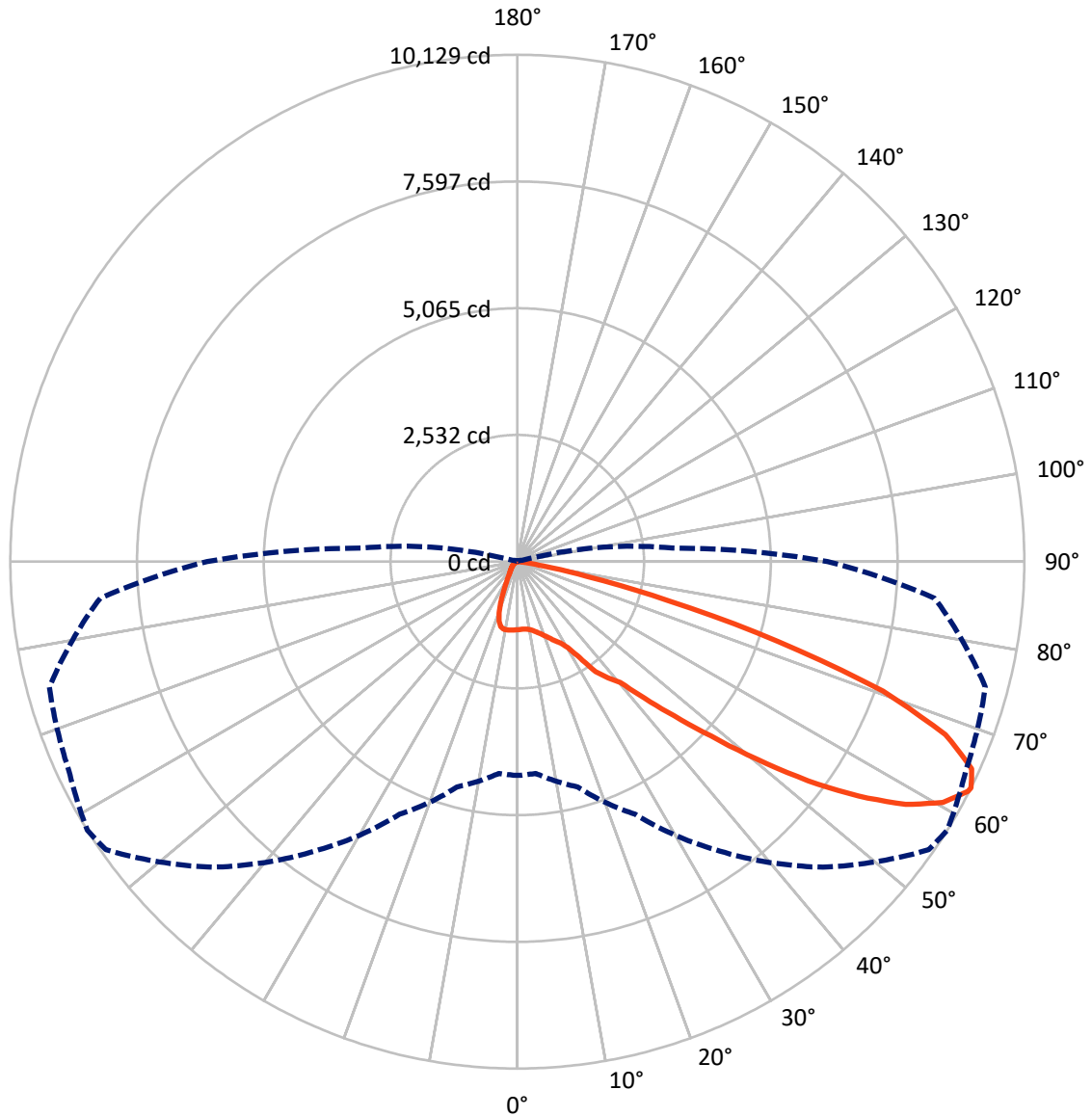
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1257.9	0.0	1257.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	10891.0	0.0	10891.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	12149.0	0.0	12149.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	1.0
10°-20°	346.8	2.9
20°-30°	601.9	5.0
30°-40°	1106.0	9.1
40°-50°	2082.0	17.1
50°-60°	3561.2	29.3
60°-70°	3409.8	28.1
70°-80°	869.5	7.2
80°-90°	44.5	0.4
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°	12149.0	100.0
0°-180°	12149.0	100.0



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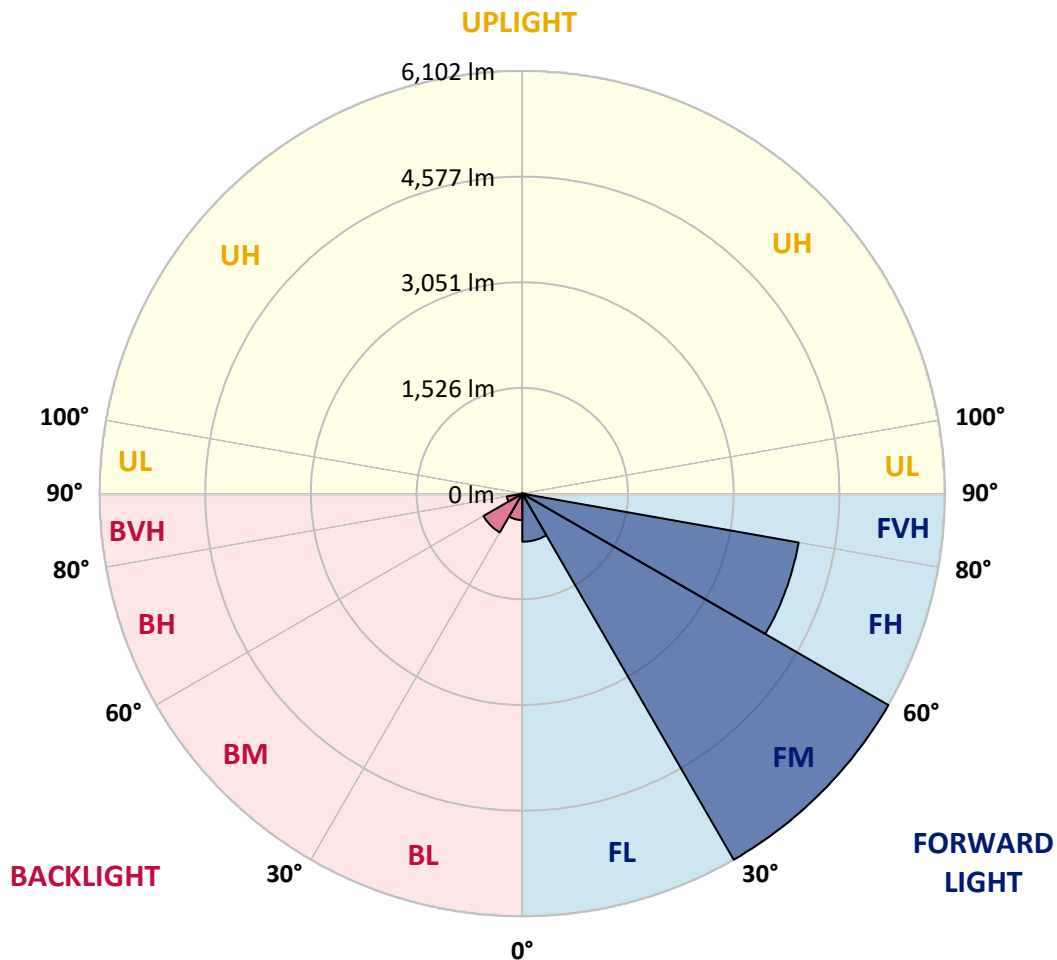
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	694.5	5.7			
FM (30°-60°)	6102.2	50.2			
FH (60°-80°)	4051.6	33.3			G2/5000
FVH (80°-90°)	42.7	0.4			G1/100
BL (0°-30°)	381.5	3.1	B1/500		
BM (30°-60°)	647.0	5.3	B1/1000		
BH (60°-80°)	227.7	1.9	B1/500		G1/500
BVH (80°-90°)	1.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1
2.5°	1326.3	1330.9	1335.4	1337.3	1343.7	1350.1	1354.6	1353.7	1361.0	1364.7	1364.7
5°	1273.2	1273.2	1285.1	1296.1	1314.4	1332.7	1350.1	1353.7	1367.4	1380.3	1384.8
7.5°	1228.4	1231.2	1240.3	1260.4	1285.1	1317.1	1351.9	1360.1	1383.9	1412.3	1424.2
10°	1207.4	1209.2	1221.1	1242.1	1273.2	1317.1	1365.6	1381.2	1417.8	1462.6	1479.0
12.5°	1202.8	1205.5	1217.4	1241.2	1276.9	1329.9	1395.8	1412.3	1465.3	1522.9	1547.6
15°	1211.0	1212.9	1224.8	1250.4	1289.7	1352.8	1436.0	1458.9	1522.0	1588.8	1620.8
17.5°	1240.3	1238.5	1246.7	1267.7	1311.6	1381.2	1484.5	1512.0	1586.1	1677.5	1698.6
20°	1364.7	1352.8	1345.5	1327.2	1344.6	1421.4	1543.1	1583.3	1674.8	1768.1	1782.7
22.5°	1632.7	1606.2	1554.0	1482.7	1427.8	1476.3	1613.5	1660.1	1778.1	1869.6	1869.6
25°	1973.9	1940.0	1887.9	1732.4	1597.9	1566.8	1693.1	1751.6	1890.6	1983.0	1952.8
27.5°	2401.0	2374.5	2273.0	2091.9	1886.1	1725.1	1785.5	1839.4	1990.3	2101.9	2038.8
30°	2748.6	2735.8	2652.6	2490.7	2263.8	2028.8	1957.4	1993.1	2123.0	2251.9	2187.0
32.5°	3042.2	3042.2	2957.2	2806.2	2594.0	2385.5	2249.2	2274.8	2399.2	2548.3	2427.6
35°	3365.1	3354.1	3285.5	3141.9	2904.1	2720.3	2664.5	2699.2	2811.7	2922.4	2625.1
37.5°	3704.4	3700.8	3629.4	3490.4	3296.5	3065.1	2934.3	2943.4	3001.1	3068.7	2856.5
40°	4073.1	4078.6	3985.3	3899.3	3716.3	3479.4	3228.8	3171.2	3225.2	3416.3	3283.7
42.5°	4508.5	4495.6	4455.4	4338.3	4191.1	4049.3	3748.4	3727.3	3774.9	3979.8	3836.2
45°	5014.3	5032.6	4963.0	4898.1	4799.3	4681.3	4429.8	4393.2	4445.3	4763.6	4559.7
47.5°	5521.0	5503.6	5548.4	5536.6	5589.6	5501.8	5279.5	5204.5	5329.8	5631.7	5331.7
50°	5907.0	5926.2	6019.5	6155.8	6383.5	6432.9	6219.8	6194.2	6250.0	6443.9	6022.2
52.5°	6157.6	6221.6	6368.0	6718.3	7129.0	7448.2	7286.3	7272.6	7249.7	7301.9	6682.6
55°	6321.3	6386.3	6577.5	7093.3	7800.4	8319.0	8327.2	8268.7	8117.8	8080.3	7300.1
57.5°	6220.7	6233.5	6506.1	7195.8	8172.7	8940.1	9209.0	9150.4	8871.5	8729.7	7845.2
60°	5591.4	5618.0	5997.5	6808.0	8010.8	9143.1	9793.5	9766.9	9461.4	9301.4	8269.6
62.5°	4476.4	4553.3	4943.8	5847.5	7258.0	8801.0	10030.4	10105.4	9867.6	9647.1	8403.2
63°	4271.6	4246.9	4659.4	5567.7	7058.6	8631.8	10034.0	10129.2	9885.8	9680.0	8366.6
65°	3162.0	3236.1	3504.1	4390.5	5874.1	7844.3	9808.1	9976.4	9818.2	9534.6	7961.4
67.5°	1775.4	1771.7	2068.1	2873.0	4111.5	6153.0	8868.7	9224.5	9191.6	8555.9	6599.4
70°	868.9	882.7	1004.3	1489.1	2384.6	4245.0	7369.6	7753.7	7765.6	6720.1	4563.3
72.5°	393.3	399.7	486.6	725.3	1225.7	2260.2	5078.3	5445.1	5377.4	4282.5	2519.9
75°	207.6	221.4	268.0	365.0	590.9	932.1	2762.3	3117.2	2975.5	1956.5	927.5
77.5°	153.7	158.2	182.0	232.3	316.5	363.1	1191.8	1417.8	1328.1	708.0	307.3
80°	112.5	116.2	135.4	164.6	199.4	184.8	449.1	515.0	461.9	240.6	94.2
82.5°	68.6	69.5	98.8	122.6	125.3	103.4	148.2	159.2	166.5	135.4	51.2
85°	24.7	31.1	66.8	88.7	74.1	52.1	62.2	68.6	75.0	86.0	30.2
87.5°	2.7	3.7	32.0	43.0	21.0	19.2	22.9	25.6	27.4	32.0	14.6
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°	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1
2.5°	1368.4	1372.0	1369.3	1364.7	1363.8	1361.0	1355.6	1355.6	1355.6	1357.4	1355.6
5°	1388.5	1391.2	1384.8	1375.7	1365.6	1352.8	1339.1	1330.9	1329.9	1328.1	1323.5
7.5°	1426.9	1430.6	1415.9	1394.0	1366.5	1335.4	1306.2	1278.7	1265.9	1255.9	1255.9
10°	1482.7	1486.4	1457.1	1417.8	1362.9	1299.8	1230.2	1167.1	1117.7	1094.9	1089.4
12.5°	1549.5	1551.3	1502.8	1434.2	1343.7	1222.0	1073.8	935.7	839.7	795.8	791.2
15°	1622.6	1609.8	1545.8	1440.6	1288.8	1061.9	805.8	636.6	536.9	507.6	518.6
17.5°	1696.7	1672.9	1578.7	1430.6	1165.3	805.8	541.5	434.5	403.4	395.1	395.1
20°	1766.2	1733.3	1602.5	1386.7	951.3	555.2	401.5	375.9	370.4	365.0	365.9
22.5°	1835.8	1785.5	1623.6	1288.8	708.9	397.0	359.5	351.2	343.9	336.6	335.7
25°	1903.4	1833.9	1631.8	1107.7	483.0	341.2	328.4	317.4	302.8	294.5	292.7
27.5°	1973.9	1892.5	1626.3	879.0	352.2	305.5	292.7	277.1	259.8	245.1	245.1
30°	2109.2	2004.1	1607.1	632.0	296.4	268.9	252.5	227.8	208.5	193.9	193.0
32.5°	2294.0	2149.5	1541.2	444.5	263.4	236.9	212.2	184.8	164.6	153.7	153.7
35°	2458.7	2295.8	1417.8	327.5	236.9	205.8	175.6	149.1	133.5	126.2	123.5
37.5°	2709.3	2509.9	1247.6	266.2	211.3	178.4	147.3	122.6	109.8	104.3	104.3
40°	3085.2	2771.5	1039.1	233.2	186.6	151.8	122.6	103.4	93.3	86.9	86.9
42.5°	3551.7	3091.6	827.8	209.5	163.7	130.8	102.4	87.8	78.7	74.1	73.2
45°	4138.9	3429.1	637.5	187.5	145.4	111.6	86.9	74.1	64.9	62.2	63.1
47.5°	4751.8	3726.4	493.9	168.3	126.2	94.2	74.1	64.0	57.6	54.0	54.0
50°	5275.0	3931.3	375.0	146.3	111.6	79.6	64.9	57.6	52.1	50.3	49.4
52.5°	5712.2	3990.7	287.2	127.1	97.9	68.6	57.6	52.1	47.6	44.8	44.8
55°	6084.4	3938.6	225.0	107.0	82.3	59.5	51.2	46.6	41.2	38.4	37.5
57.5°	6302.1	3771.2	172.0	88.7	66.8	49.4	44.8	39.3	32.9	28.4	28.4
60°	6411.9	3527.9	131.7	73.2	51.2	39.3	36.6	29.3	22.9	19.2	18.3
62.5°	6280.2	3205.0	99.7	57.6	38.4	29.3	24.7	21.0	14.6	11.0	11.0
63°	6198.8	3111.7	96.0	54.9	35.7	27.4	22.9	19.2	12.8	10.1	9.1
65°	5650.9	2704.7	78.7	43.9	28.4	19.2	15.5	13.7	9.1	4.6	3.7
67.5°	4487.4	2069.0	62.2	32.9	20.1	13.7	9.1	8.2	2.7	0.0	0.0
70°	3034.0	1336.3	48.5	23.8	13.7	8.2	4.6	3.7	0.9	0.0	0.0
72.5°	1582.4	685.1	37.5	17.4	8.2	5.5	2.7	0.9	0.0	0.0	0.0
75°	559.8	233.2	27.4	11.0	5.5	2.7	0.9	0.0	0.0	0.0	0.0
77.5°	169.2	86.9	17.4	8.2	3.7	1.8	0.0	0.0	0.0	0.0	0.0
80°	59.5	32.0	10.1	5.5	2.7	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	29.3	15.5	6.4	4.6	2.7	0.9	0.0	0.0	0.0	0.0	0.0
85°	16.5	10.1	5.5	4.6	2.7	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	7.3	5.5	4.6	3.7	1.8	0.9	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)