

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: P451781

Luminaire Tested: **GALN-SA2C-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8090 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

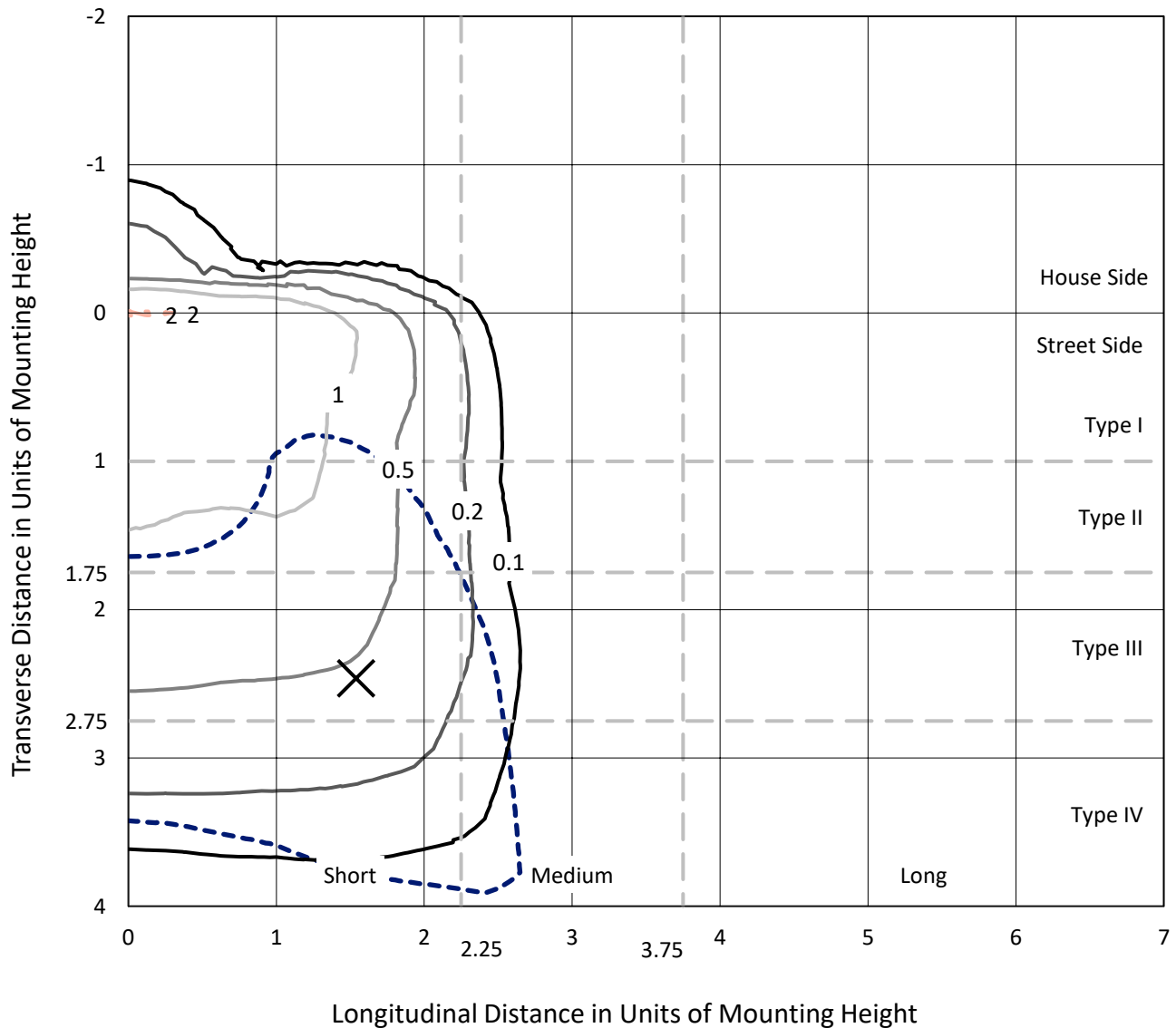
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451781
 CATALOG NUMBER: GALN-SA2C-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

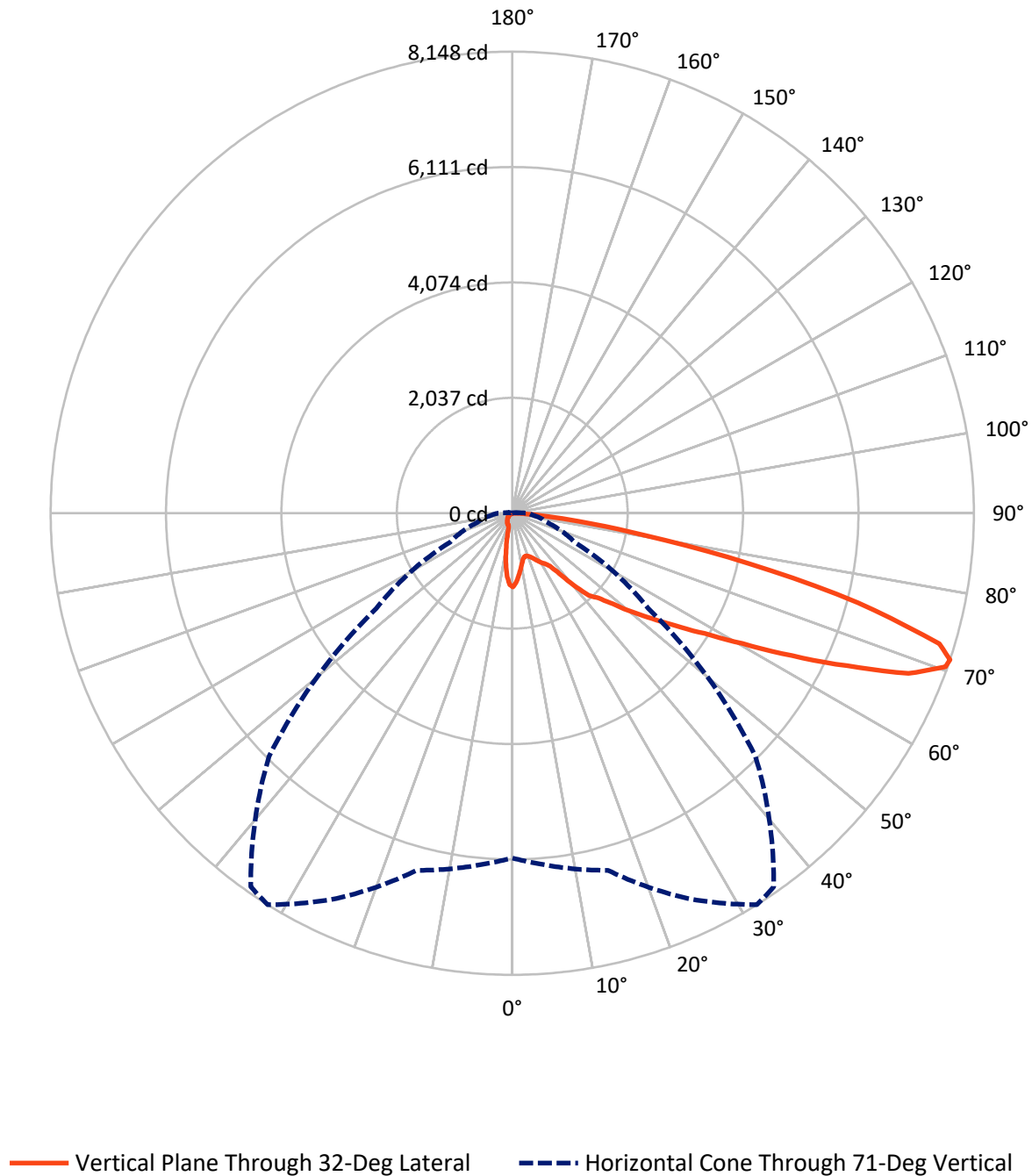
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P451781
CATALOG NUMBER: GALN-SA2C-830-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P451781

CATALOG NUMBER: GALN-SA2C-830-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	677.6	0.0	677.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	7412.4	0.0	7412.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	8090.0	0.0	8090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	1.3
10°-20°	229.6	2.8
20°-30°	357.2	4.4
30°-40°	595.1	7.4
40°-50°	1106.9	13.7
50°-60°	1777.2	22.0
60°-70°	2390.4	29.5
70°-80°	1418.3	17.5
80°-90°	109.6	1.4
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°	8090.0	100.0
0°-180°	8090.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451781

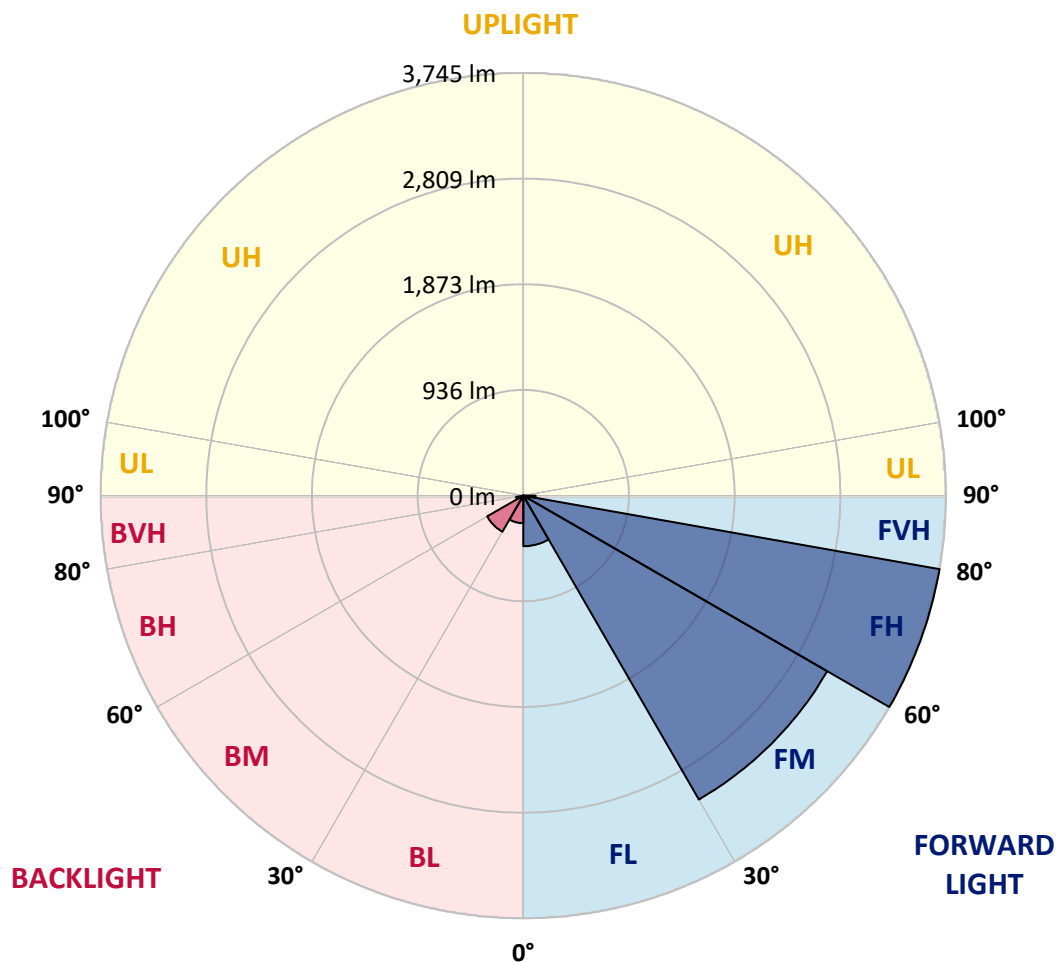
CATALOG NUMBER: GALN-SA2C-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	448.4	5.5			
FM	(30°-60°)	3109.5	38.4			
FH	(60°-80°)	3745.3	46.3			G2/5000
FVH	(80°-90°)	109.2	1.3			G2/225
BL	(0°-30°)	244.2	3.0	B1/500		
BM	(30°-60°)	369.7	4.6	B1/1000		
BH	(60°-80°)	63.4	0.8	B0/110		G0/110
BVH	(80°-90°)	0.4	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





REPORT NUMBER: P451781

CATALOG NUMBER: GALN-SA2C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0
2.5°	1206.6	1219.0	1217.2	1221.5	1232.1	1236.4	1248.2	1261.3	1279.3	1291.7	1299.8
5°	1080.5	1089.9	1091.1	1112.8	1123.4	1135.2	1170.0	1207.8	1250.1	1283.6	1306.0
7.5°	945.8	950.8	960.7	989.3	1016.0	1027.8	1080.5	1146.4	1212.8	1275.5	1315.9
10°	834.6	840.2	858.2	888.7	913.5	929.0	1002.3	1084.9	1178.0	1271.2	1330.2
12.5°	771.3	774.4	781.2	808.5	840.2	857.0	935.8	1030.2	1150.1	1273.1	1354.4
15°	766.9	765.7	757.6	768.8	797.4	814.8	891.8	993.0	1125.3	1279.3	1383.0
17.5°	789.9	786.8	767.6	767.6	791.2	805.4	873.1	973.1	1112.8	1293.5	1423.3
20°	825.3	820.3	788.7	786.2	809.2	824.1	884.3	974.4	1115.3	1320.2	1477.4
22.5°	870.0	864.4	816.6	817.9	842.7	857.6	916.6	996.7	1130.8	1353.2	1535.1
25°	928.4	922.2	865.7	863.2	889.3	902.3	964.4	1036.5	1152.6	1394.1	1610.9
27.5°	1006.0	993.0	925.3	921.6	949.5	966.3	1022.2	1089.9	1191.1	1450.7	1712.7
30°	1070.0	1055.7	991.1	981.2	1011.0	1024.0	1081.8	1161.9	1266.8	1549.4	1853.7
32.5°	1153.8	1132.7	1056.9	1030.9	1062.5	1079.3	1168.1	1296.0	1379.2	1653.7	2021.4
35°	1342.6	1329.6	1237.0	1145.7	1143.9	1165.0	1295.4	1431.4	1494.8	1816.4	2249.9
37.5°	1612.7	1603.4	1505.3	1383.0	1347.6	1337.6	1450.0	1580.4	1679.2	2040.0	2515.7
40°	1926.3	1904.6	1814.6	1710.9	1664.9	1635.7	1632.6	1802.1	1920.1	2343.7	2792.6
42.5°	2151.1	2111.4	2002.1	1994.7	1984.7	1954.3	1866.1	2126.3	2231.3	2670.3	3088.9
45°	2387.1	2326.9	2164.2	2136.2	2132.5	2130.7	2218.8	2510.1	2570.3	3024.3	3393.2
47.5°	2570.3	2522.5	2389.0	2376.6	2392.1	2434.3	2685.2	2917.5	2905.0	3339.7	3648.4
50°	2814.4	2778.4	2629.9	2653.5	2733.6	2802.6	3211.2	3361.5	3180.1	3588.1	3834.1
52.5°	3102.5	3036.1	2898.2	2962.2	3085.1	3200.0	3769.5	3750.2	3373.3	3775.1	3972.5
55°	3352.2	3305.0	3257.8	3324.2	3508.0	3651.5	4273.7	4041.5	3513.6	3925.4	4033.4
57.5°	3774.4	3763.3	3714.8	3782.5	4005.5	4154.5	4725.2	4267.5	3603.7	4003.6	3962.0
60°	4399.2	4381.2	4291.1	4377.4	4668.1	4902.2	5141.3	4470.6	3624.2	3973.2	3756.4
62.5°	5150.6	5089.1	5012.1	5139.4	5538.1	5641.2	5533.1	4591.1	3547.8	3731.0	3260.9
65°	5852.3	5789.0	5790.8	6059.1	6493.2	6563.4	5990.2	4573.1	3324.2	3124.3	2405.1
67.5°	6389.5	6378.9	6454.7	6978.2	7545.8	7497.4	6398.8	4303.5	2661.6	2025.1	1278.0
70°	6416.8	6437.3	6654.7	7538.3	8114.6	8037.6	6364.0	3498.1	1659.3	931.5	503.6
71°	6086.4	6224.3	6524.9	7521.0	8148.2	8048.2	6070.9	2929.9	1217.2	649.6	363.3
72.5°	5186.6	5259.3	5908.8	7078.2	7883.0	7669.4	5327.6	2053.7	779.4	397.4	208.7
75°	2856.6	3035.5	3957.0	5553.0	6305.0	6117.5	3472.0	975.6	388.7	217.4	86.3
77.5°	1360.0	1325.2	1930.7	3302.5	4275.0	4265.0	1749.4	433.5	226.7	147.2	43.5
80°	388.7	437.2	739.0	1569.9	2373.5	2399.6	671.9	209.3	157.1	114.9	22.4
82.5°	117.4	119.9	271.4	694.3	1180.5	1112.8	252.1	106.8	113.0	91.3	13.0
85°	20.5	25.5	80.1	244.7	450.2	341.6	63.3	50.9	74.5	60.2	7.5
87.5°	1.2	1.9	26.7	27.9	39.7	23.0	11.2	7.5	16.1	16.1	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451781

CATALOG NUMBER: GALN-SA2C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0	1301.0
2.5°	1305.3	1309.1	1306.6	1301.0	1291.7	1280.5	1265.6	1253.2	1242.6	1237.0	1243.9
5°	1313.4	1318.4	1306.0	1278.0	1235.8	1189.8	1137.7	1097.3	1065.6	1055.7	1052.0
7.5°	1325.8	1328.9	1295.4	1233.3	1143.9	1035.2	940.2	860.1	798.0	779.4	752.0
10°	1342.0	1340.1	1276.8	1161.3	1004.2	840.8	693.7	584.4	501.8	472.0	469.5
12.5°	1366.8	1356.9	1253.2	1063.2	837.7	624.1	442.2	345.9	293.7	276.3	272.6
15°	1397.9	1374.3	1215.9	948.3	641.5	403.0	272.6	243.4	236.6	235.4	234.1
17.5°	1434.5	1397.3	1166.9	807.3	450.8	261.4	227.9	227.3	227.9	226.7	226.0
20°	1484.2	1421.5	1108.5	640.3	298.1	220.5	217.4	217.4	218.0	217.4	217.4
22.5°	1537.0	1450.0	1036.5	488.7	224.8	209.3	208.7	209.9	211.1	210.5	210.5
25°	1602.2	1487.3	941.4	334.7	201.2	200.0	200.6	203.1	205.6	206.2	205.6
27.5°	1696.6	1533.3	839.6	230.4	184.4	185.7	191.9	198.1	201.8	202.4	202.4
30°	1802.8	1584.2	706.7	186.9	170.8	170.8	178.2	190.0	198.1	199.3	200.0
32.5°	1939.4	1643.2	559.5	168.3	157.7	156.5	163.3	177.6	192.5	196.9	196.9
35°	2108.3	1712.7	416.1	156.5	148.4	145.3	149.0	160.8	180.1	192.5	193.8
37.5°	2306.4	1778.5	304.3	145.9	139.7	135.4	137.9	147.2	162.7	181.3	186.3
40°	2489.6	1836.9	227.3	137.2	131.0	127.9	129.8	134.1	147.2	164.6	167.7
42.5°	2689.6	1882.3	180.7	127.9	122.3	121.1	121.1	123.0	131.7	141.6	142.2
45°	2888.9	1898.4	151.5	116.7	113.0	114.3	113.6	112.4	116.1	114.9	114.9
47.5°	3031.1	1879.2	125.4	106.2	106.2	108.1	104.9	100.6	98.7	91.3	91.9
50°	3128.6	1809.0	103.1	93.8	98.7	101.2	95.0	88.2	81.4	73.3	71.4
52.5°	3169.0	1684.2	84.5	77.6	87.6	90.7	83.2	75.1	64.6	57.8	55.9
55°	3142.9	1530.1	70.2	63.3	73.9	77.6	70.2	60.9	49.1	41.6	40.4
57.5°	3028.0	1346.3	59.6	50.3	59.0	61.5	56.5	46.6	34.8	27.3	27.3
60°	2829.3	1156.3	48.4	39.7	44.1	47.8	42.8	33.5	23.6	16.8	15.5
62.5°	2426.3	939.0	39.1	31.1	31.1	34.2	29.8	24.2	14.9	8.7	8.1
65°	1751.8	644.0	31.1	23.0	22.4	22.4	18.6	16.1	8.7	3.7	2.5
67.5°	952.0	363.3	24.8	17.4	15.5	14.9	11.8	9.3	3.7	0.6	0.0
70°	374.5	139.7	19.3	11.8	9.9	9.3	6.2	4.3	2.5	0.0	0.0
71°	254.0	96.3	16.8	9.9	8.1	6.8	5.0	3.7	1.9	0.0	0.0
72.5°	145.3	59.6	13.0	7.5	6.2	5.0	3.7	2.5	1.9	0.0	0.0
75°	63.3	30.4	8.1	5.6	4.3	3.1	2.5	1.9	0.6	0.0	0.0
77.5°	32.3	16.8	5.6	4.3	2.5	1.9	1.2	0.6	0.0	0.0	0.0
80°	18.0	8.7	3.7	2.5	1.9	1.2	0.6	0.6	0.0	0.0	0.0
82.5°	9.9	5.0	1.9	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.2	3.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	1.2	0.0	0.0	0.0	0.0	0.6	0.6	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)