

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: P455321

Luminaire Tested: **GALN-SA6C-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25222 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

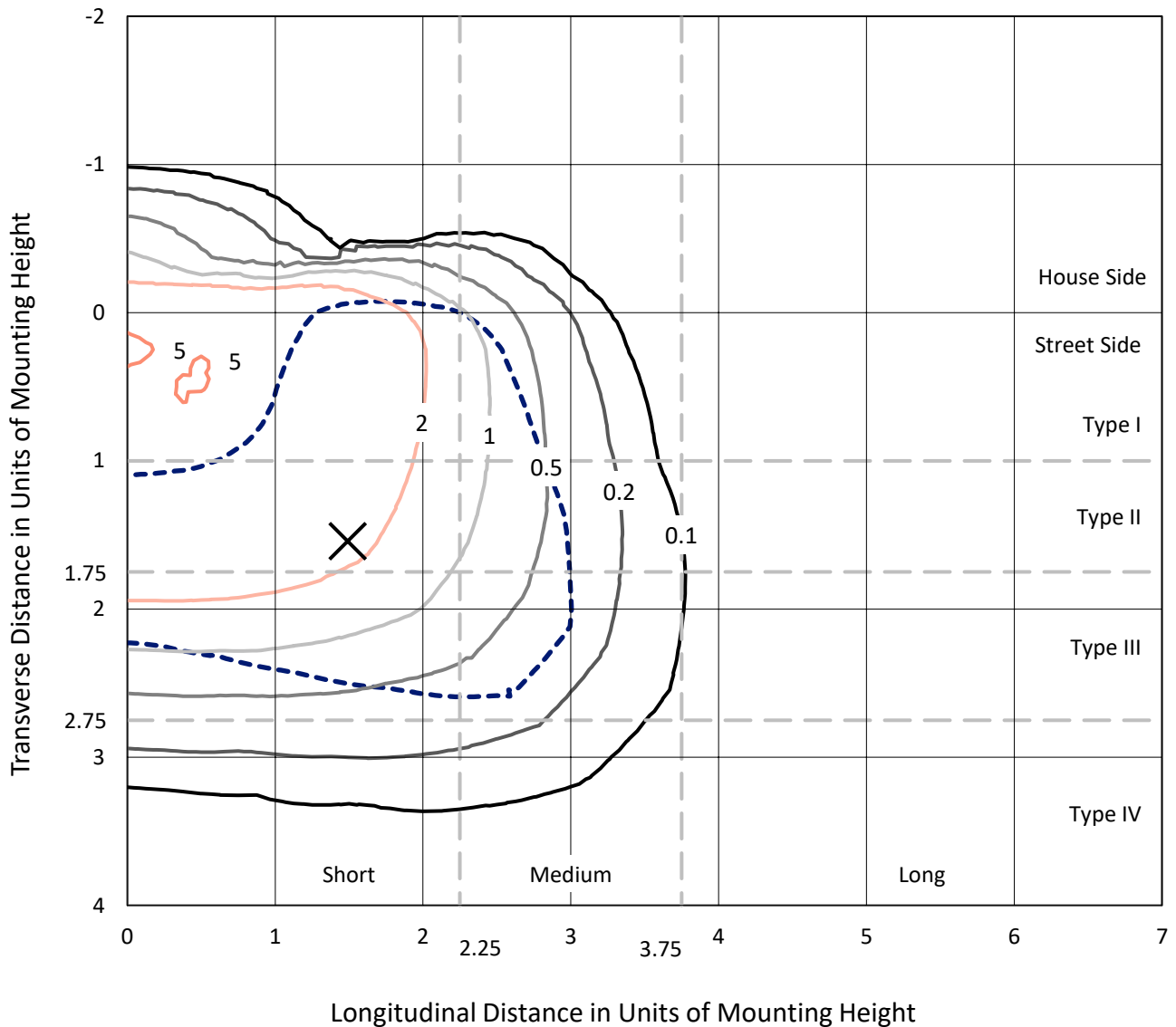
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455321
 CATALOG NUMBER: GALN-SA6C-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

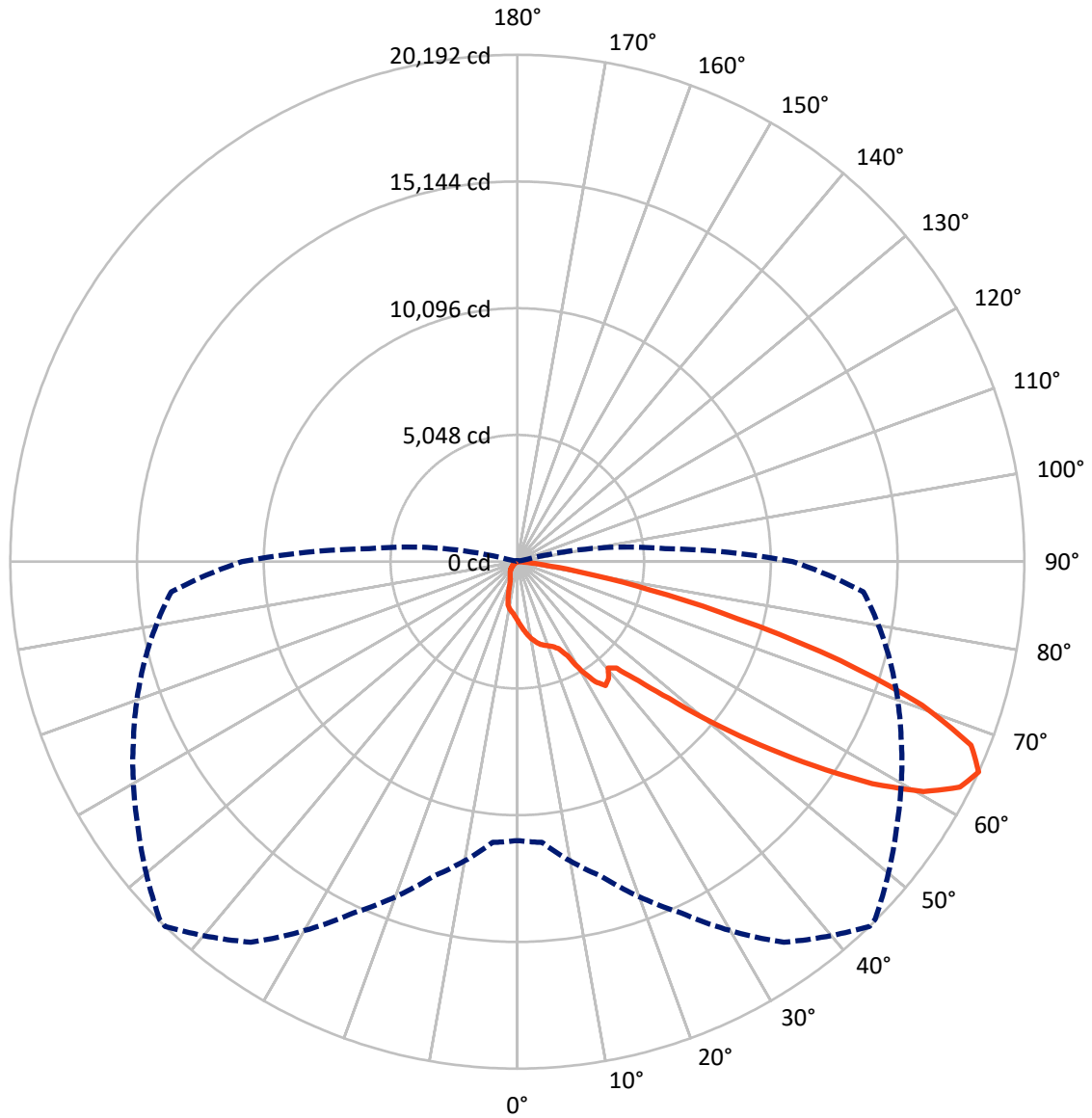
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

REPORT NUMBER: P455321
CATALOG NUMBER: GALN-SA6C-727-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P455321

CATALOG NUMBER: GALN-SA6C-727-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2323.8	0.0	2323.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	22898.2	0.0	22898.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	25222.0	0.0	25222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.5	0.9
10°-20°	702.7	2.8
20°-30°	1191.5	4.7
30°-40°	1981.1	7.9
40°-50°	3459.0	13.7
50°-60°	6757.6	26.8
60°-70°	7840.4	31.1
70°-80°	2855.1	11.3
80°-90°	201.2	0.8
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°	25222.0	100.0
0°-180°	25222.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455321

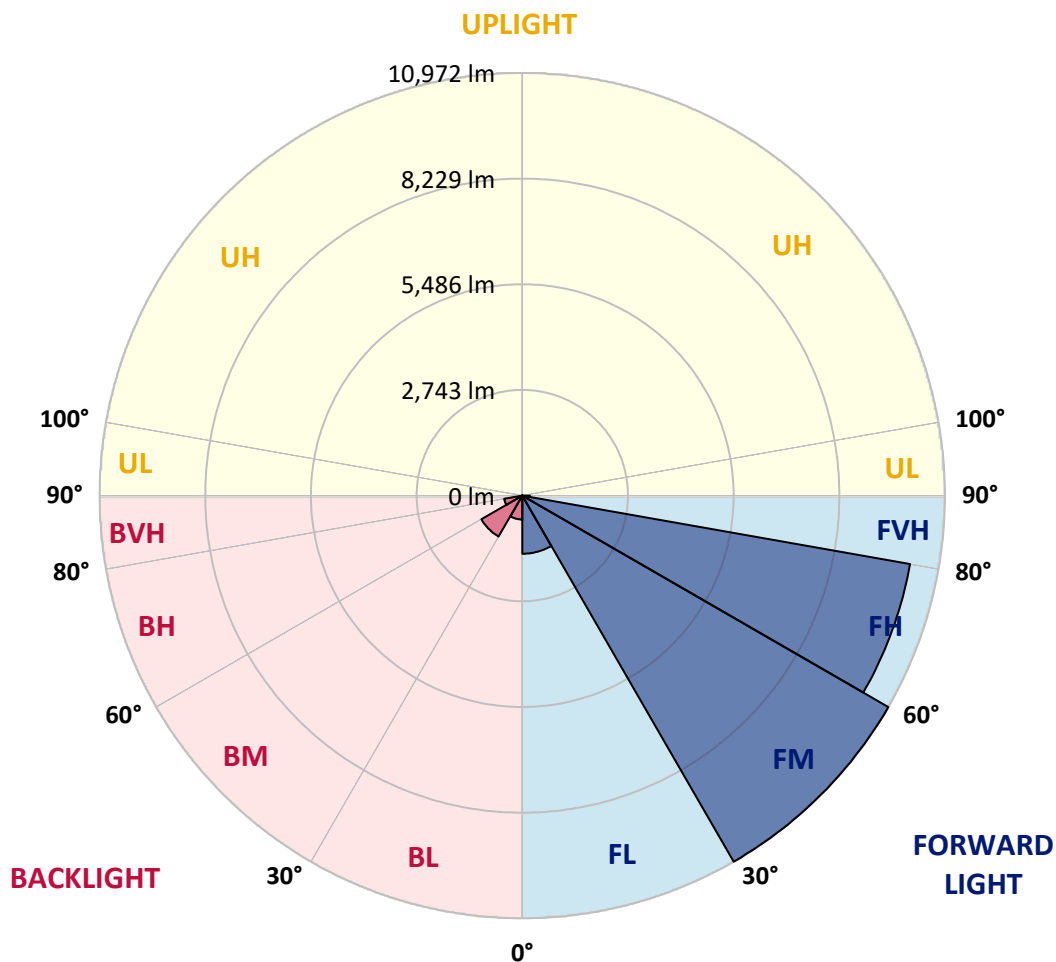
CATALOG NUMBER: GALN-SA6C-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1508.5	6.0			
FM	(30°-60°)	10971.6	43.5			
FH	(60°-80°)	10219.6	40.5			G4/12000
FVH	(80°-90°)	198.4	0.8			G2/225
BL	(0°-30°)	619.1	2.5	B2/1000		
BM	(30°-60°)	1226.1	4.9	B2/2500		
BH	(60°-80°)	475.9	1.9	B1/500		G1/500
BVH	(80°-90°)	2.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P455321

CATALOG NUMBER: GALN-SA6C-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4
2.5°	2642.3	2630.7	2624.9	2594.1	2571.0	2542.1	2542.1	2505.5	2463.1	2416.8	2374.4
5°	2937.2	2917.9	2892.8	2865.9	2811.9	2734.8	2734.8	2657.7	2569.1	2490.0	2403.3
7.5°	3220.5	3203.1	3160.7	3108.7	3020.0	2939.1	2933.3	2821.5	2715.5	2596.0	2472.7
10°	3469.1	3455.6	3419.0	3318.8	3226.3	3120.3	3118.3	2993.1	2869.7	2723.2	2571.0
12.5°	3642.5	3644.5	3596.3	3499.9	3380.4	3280.2	3272.5	3149.2	3020.0	2862.0	2675.1
15°	3765.9	3765.9	3715.8	3607.9	3499.9	3411.3	3403.6	3295.6	3162.7	2991.1	2788.8
17.5°	3800.6	3812.1	3758.2	3661.8	3575.1	3498.0	3496.1	3405.5	3299.5	3133.7	2904.4
20°	3787.1	3798.7	3756.3	3681.1	3621.3	3577.0	3571.2	3534.6	3436.3	3280.2	3027.7
22.5°	3758.2	3769.7	3738.9	3694.6	3665.7	3679.2	3669.5	3700.4	3648.3	3459.5	3174.2
25°	3764.0	3775.5	3752.4	3727.3	3752.4	3835.3	3860.3	3993.3	3947.1	3686.9	3332.3
27.5°	3945.1	3968.3	3935.5	3947.1	4035.7	4228.4	4276.6	4506.0	4301.7	3976.0	3578.9
30°	4347.9	4332.5	4270.8	4326.7	4635.1	5043.7	5030.2	4993.6	4673.6	4309.4	3871.9
32.5°	4714.1	4700.6	4696.8	4937.7	5496.6	5695.1	5685.4	5330.8	5007.0	4691.0	4161.0
35°	4862.5	4810.5	4798.9	5382.9	6317.6	6055.5	5995.7	5469.6	5411.8	5107.3	4455.9
37.5°	5309.6	5273.0	5093.8	5456.1	5990.0	5903.2	5857.0	5708.6	5843.5	5475.4	4789.3
40°	6230.9	6128.7	5966.8	5612.2	5525.5	5562.1	5608.4	6015.0	6354.2	5978.4	5234.5
42.5°	7375.7	7352.5	7051.9	6390.8	5741.3	5791.4	5851.2	6654.9	7088.5	6735.8	5961.0
45°	8749.8	8782.6	8348.9	7568.4	6716.5	6758.9	6845.7	7599.2	8083.0	7913.4	7103.9
47.5°	9998.7	9973.6	9827.2	9015.8	8229.4	8135.0	8275.7	8811.5	9459.0	9486.0	8522.4
50°	11255.3	11388.2	11170.5	10852.5	10268.5	10070.0	10018.0	10280.1	11266.8	11137.7	10226.1
52.5°	13061.1	13130.5	12721.9	12641.0	12774.0	12130.2	12078.2	12141.8	13024.5	12581.2	11502.0
55°	14196.3	14155.8	14003.6	14635.7	15161.8	14358.2	14292.6	14036.3	14483.4	13600.8	12729.6
57.5°	14554.8	14612.6	14967.2	16110.1	17355.1	16672.8	16553.3	15824.8	15535.7	14550.9	13859.0
60°	14394.8	14500.8	15265.9	16965.8	18692.6	18590.5	18488.3	17264.5	16291.2	15344.9	14651.1
62.5°	13255.8	13404.2	14628.0	16813.5	19145.5	19783.4	19656.2	18162.6	16794.2	15730.4	14789.9
65°	11108.8	11218.6	12976.3	15431.7	18501.8	20192.0	20145.8	18444.0	16873.3	15377.7	13839.7
67.5°	7919.2	8293.0	9921.6	13005.2	16597.7	19494.3	19573.4	18106.7	16131.3	13853.2	11461.5
70°	4978.1	5232.5	6400.5	9310.6	13305.9	17102.6	17362.8	16563.0	13999.7	10798.5	7672.5
72.5°	2374.4	2563.3	3395.9	5893.6	9391.6	13456.2	13662.4	13596.9	10825.5	6803.3	3958.6
75°	1058.1	1129.4	1620.8	3008.5	6063.2	9044.7	9578.5	9667.2	6764.7	3328.4	1539.9
77.5°	539.6	541.6	759.3	1457.0	3027.7	5396.4	5502.4	5812.6	3667.6	1466.7	535.8
80°	287.2	306.4	402.8	688.0	1570.7	2657.7	2644.2	2906.3	1626.6	718.9	179.2
82.5°	129.1	142.6	227.4	360.4	767.1	1008.0	1087.0	1189.1	697.7	458.7	79.0
85°	38.5	46.3	111.8	181.2	277.5	291.0	325.7	420.1	395.1	325.7	40.5
87.5°	5.8	5.8	46.3	50.1	40.5	52.0	54.0	59.7	127.2	119.5	21.2
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: P455321

CATALOG NUMBER: GALN-SA6C-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4
2.5°	2351.3	2337.8	2289.6	2249.1	2214.4	2193.2	2168.2	2152.8	2145.1	2139.3	2141.2
5°	2360.9	2328.1	2245.3	2179.7	2129.6	2075.7	2039.1	2017.9	2008.2	1992.8	1992.8
7.5°	2414.9	2362.8	2247.2	2147.0	2060.3	1987.0	1917.6	1892.6	1875.2	1871.4	1867.5
10°	2492.0	2426.4	2268.4	2129.6	2006.3	1906.1	1807.8	1721.1	1653.6	1613.1	1607.3
12.5°	2588.3	2493.9	2301.2	2118.1	1960.0	1782.7	1522.5	1347.2	1229.6	1193.0	1198.8
15°	2677.0	2574.8	2333.9	2108.4	1875.2	1478.2	1183.3	982.9	923.2	917.4	919.3
17.5°	2783.0	2661.6	2372.5	2094.9	1642.0	1129.4	878.8	824.9	836.4	855.7	853.8
20°	2892.8	2754.1	2418.7	2014.0	1310.5	849.9	776.7	782.5	799.8	817.2	821.0
22.5°	3010.4	2860.1	2472.7	1819.3	1000.3	740.1	736.2	743.9	761.3	780.5	784.4
25°	3172.3	2993.1	2513.2	1564.9	757.4	684.2	691.9	705.4	720.8	742.0	745.9
27.5°	3380.4	3172.3	2534.4	1233.5	655.3	634.1	636.0	655.3	674.5	693.8	693.8
30°	3650.3	3386.2	2492.0	932.8	605.2	585.9	578.2	589.7	614.8	634.1	636.0
32.5°	3891.2	3588.6	2380.2	713.1	568.5	541.6	522.3	524.2	533.9	545.4	547.3
35°	4132.1	3785.2	2189.4	599.4	530.0	499.2	470.3	454.8	447.1	441.3	447.1
37.5°	4440.4	4029.9	1935.0	545.4	497.2	458.7	418.2	385.5	358.5	341.1	345.0
40°	4837.5	4369.1	1634.3	510.7	466.4	420.1	366.2	323.8	277.5	262.1	254.4
42.5°	5492.7	4883.7	1318.3	481.8	435.6	379.7	312.2	254.4	212.0	196.6	200.4
45°	6527.7	5533.2	1015.7	451.0	404.7	335.3	262.1	200.4	165.7	158.0	161.9
47.5°	7899.9	6373.5	782.5	416.3	366.2	287.2	206.2	158.0	136.8	134.9	133.0
50°	9191.2	7156.0	653.3	377.7	319.9	239.0	169.6	133.0	119.5	117.6	117.6
52.5°	10359.1	7716.8	531.9	333.4	269.8	196.6	142.6	117.6	106.0	100.2	100.2
55°	11397.9	8083.0	431.7	279.5	212.0	156.1	123.3	106.0	92.5	84.8	82.9
57.5°	12182.3	8127.3	323.8	223.6	158.0	121.4	106.0	92.5	77.1	67.5	63.6
60°	12517.6	7743.8	239.0	169.6	117.6	96.4	84.8	75.2	57.8	48.2	46.3
62.5°	12180.4	6997.9	177.3	129.1	90.6	71.3	59.7	55.9	40.5	28.9	27.0
65°	10972.0	5920.6	140.7	98.3	67.5	52.0	38.5	36.6	25.1	13.5	11.6
67.5°	8790.3	4637.0	111.8	73.2	48.2	34.7	25.1	23.1	13.5	3.9	3.9
70°	5716.3	2964.1	90.6	54.0	30.8	23.1	15.4	11.6	7.7	1.9	0.0
72.5°	2827.3	1385.7	73.2	42.4	21.2	11.6	5.8	3.9	5.8	0.0	0.0
75°	1096.6	493.4	54.0	28.9	11.6	5.8	3.9	0.0	1.9	0.0	0.0
77.5°	364.3	163.8	32.8	15.4	7.7	3.9	0.0	0.0	0.0	0.0	0.0
80°	134.9	63.6	17.3	9.6	3.9	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	54.0	25.1	11.6	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.0	15.4	7.7	5.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.3	11.6	7.7	5.8	3.9	1.9	0.0	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)