

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: P455843

Luminaire Tested: **GALN-SA7A-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455843
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-SA7A-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA 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: 23042 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

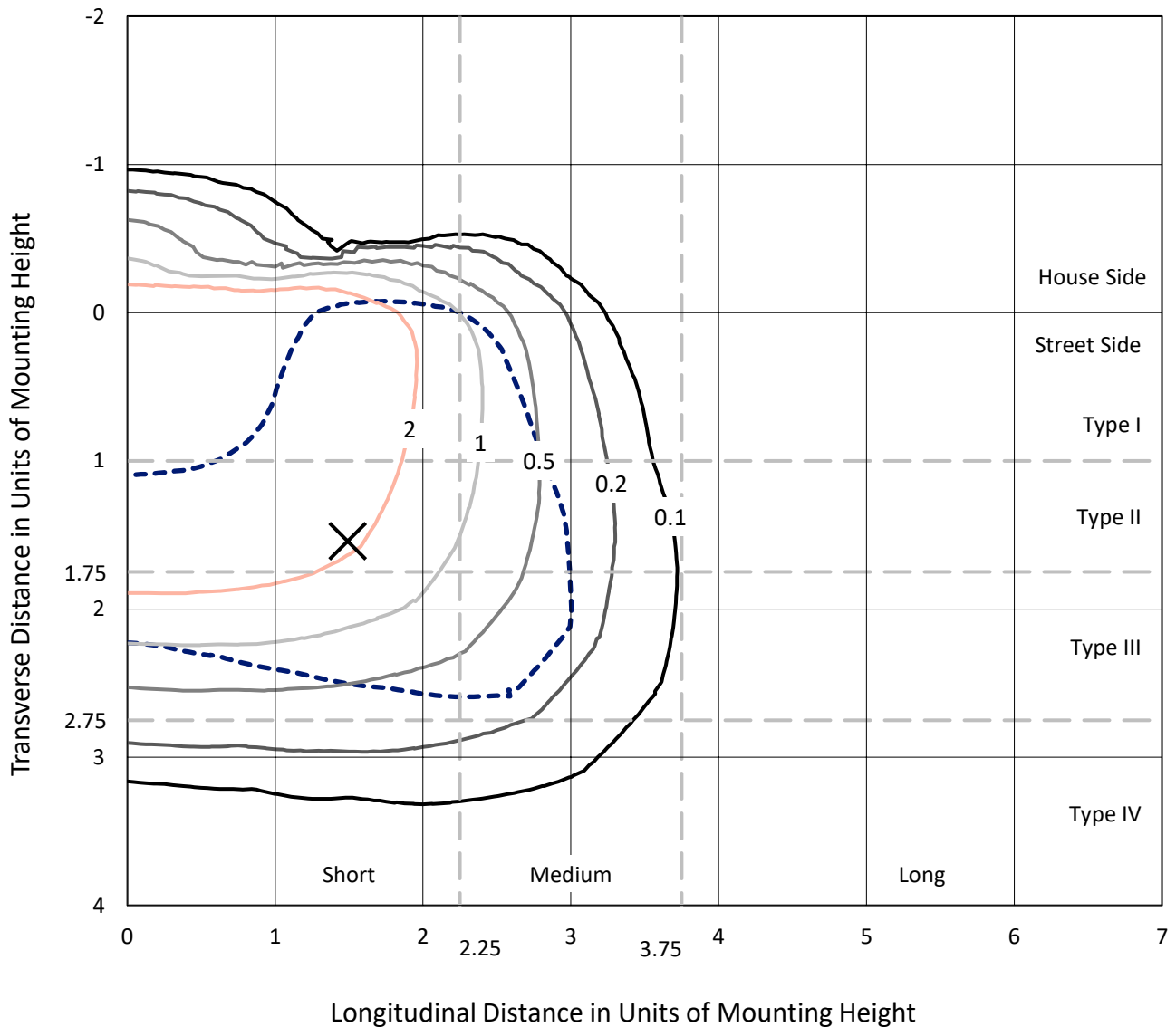
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

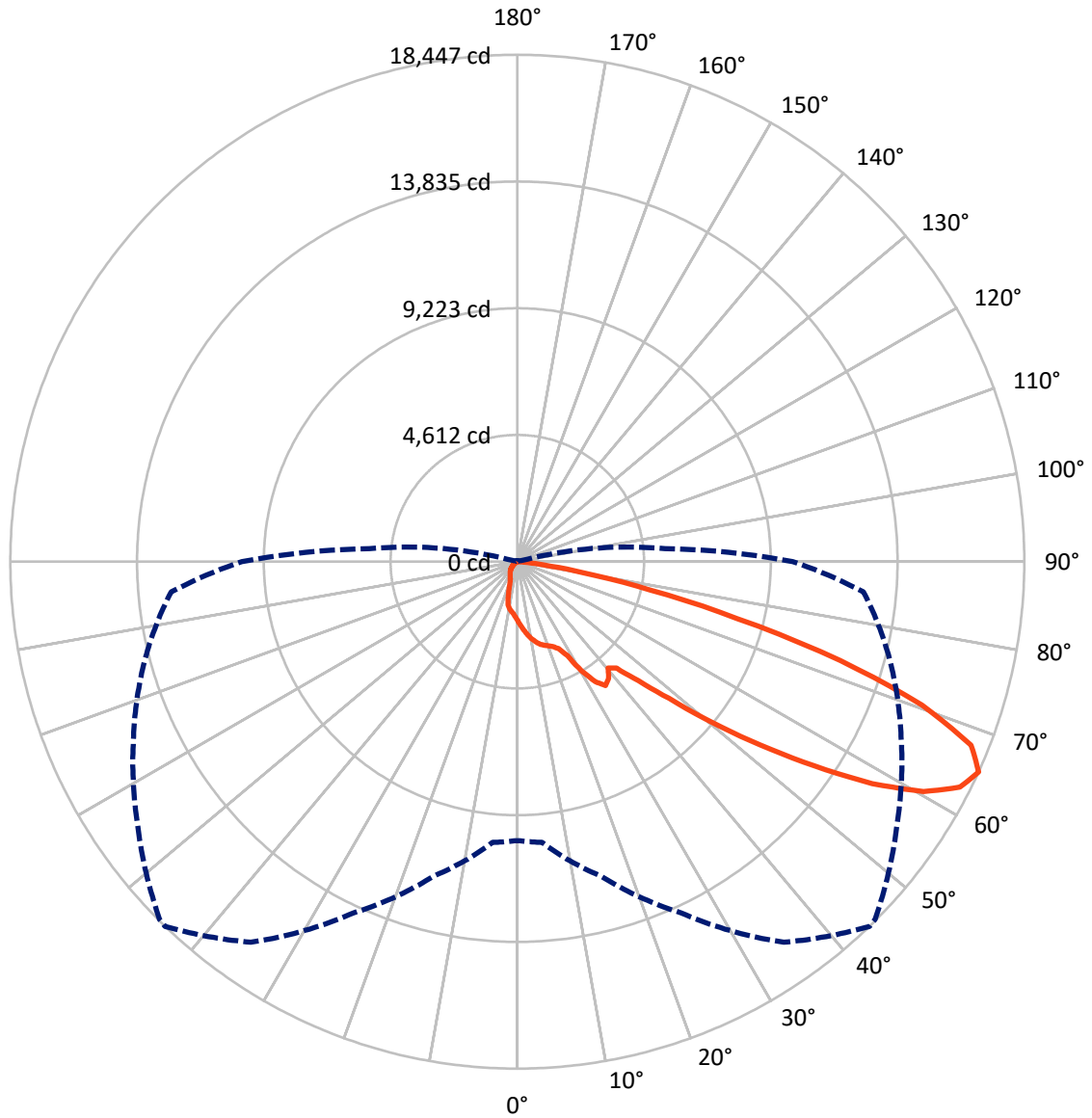
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2123.0	0.0	2123.0
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	20919.0	0.0	20919.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	23042.0	0.0	23042.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	0.9
10°-20°	641.9	2.8
20°-30°	1088.5	4.7
30°-40°	1809.8	7.9
40°-50°	3160.0	13.7
50°-60°	6173.5	26.8
60°-70°	7162.8	31.1
70°-80°	2608.3	11.3
80°-90°	183.8	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°	23042.0	100.0
0°-180°	23042.0	100.0



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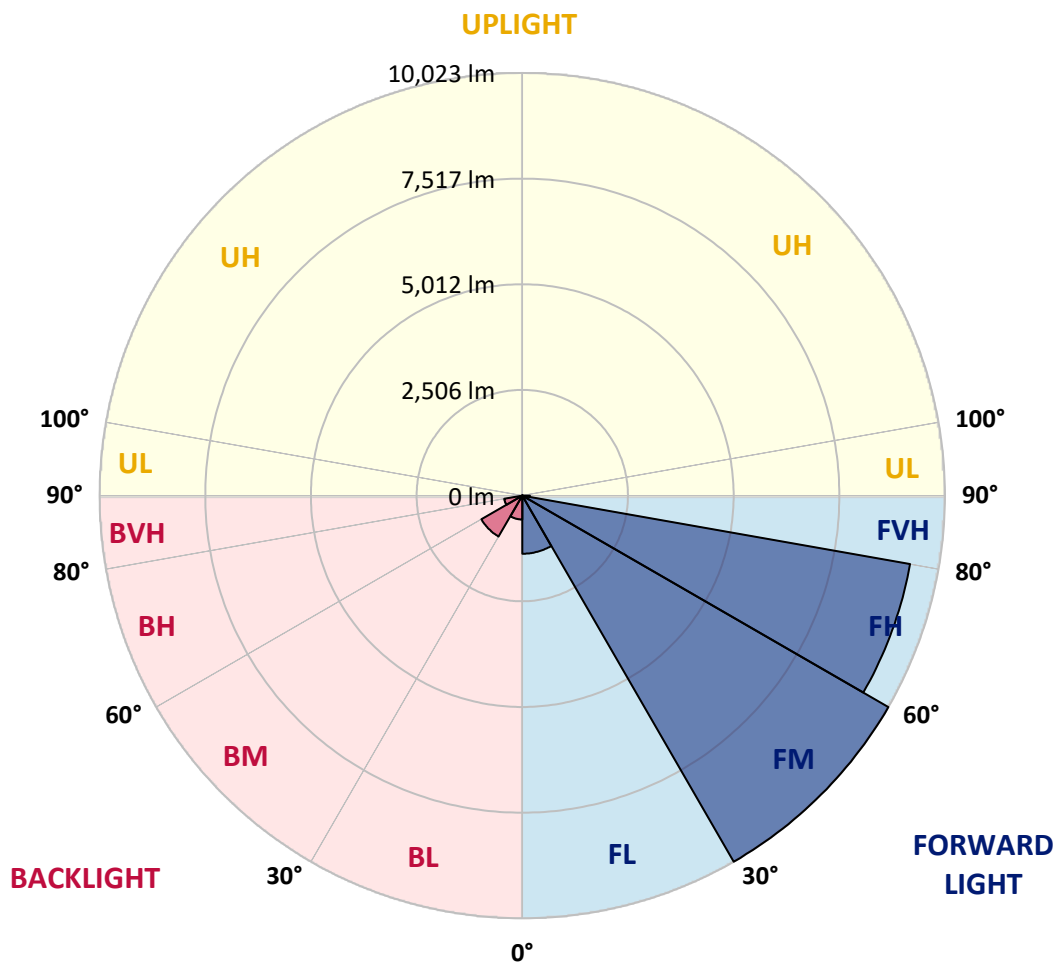
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1378.1	6.0			
FM	(30°-60°)	10023.3	43.5			
FH	(60°-80°)	9336.3	40.5			G4/12000
FVH	(80°-90°)	181.3	0.8			G2/225
BL	(0°-30°)	565.6	2.5	B2/1000		
BM	(30°-60°)	1120.1	4.9	B2/2500		
BH	(60°-80°)	434.8	1.9	B1/500		G1/500
BVH	(80°-90°)	2.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5
2.5°	2413.9	2403.3	2398.1	2369.9	2348.8	2322.4	2322.4	2288.9	2250.2	2207.9	2169.2
5°	2683.3	2665.7	2642.8	2618.1	2568.8	2498.4	2498.4	2428.0	2347.0	2274.8	2195.6
7.5°	2942.1	2926.3	2887.5	2840.0	2759.0	2685.1	2679.8	2577.7	2480.8	2371.7	2259.0
10°	3169.2	3156.9	3123.5	3031.9	2947.4	2850.6	2848.8	2734.4	2621.7	2487.9	2348.8
12.5°	3327.7	3329.5	3285.5	3197.4	3088.3	2996.7	2989.7	2877.0	2759.0	2614.6	2443.8
15°	3440.4	3440.4	3394.6	3296.0	3197.4	3116.4	3109.4	3010.8	2889.3	2732.6	2547.7
17.5°	3472.1	3482.6	3433.3	3345.3	3266.1	3195.7	3193.9	3111.1	3014.3	2862.9	2653.4
20°	3459.8	3470.3	3431.6	3362.9	3308.3	3267.8	3262.6	3229.1	3139.3	2996.7	2766.0
22.5°	3433.3	3443.9	3415.7	3375.2	3348.8	3361.2	3352.4	3380.5	3333.0	3160.4	2899.9
25°	3438.6	3449.2	3428.1	3405.2	3428.1	3503.8	3526.7	3648.2	3605.9	3368.2	3044.2
27.5°	3604.1	3625.3	3595.3	3605.9	3686.9	3863.0	3907.0	4116.5	3929.9	3632.3	3269.6
30°	3972.1	3958.0	3901.7	3952.8	4234.5	4607.7	4595.4	4562.0	4269.7	3936.9	3537.2
32.5°	4306.7	4294.3	4290.8	4510.9	5021.5	5202.8	5194.0	4870.1	4574.3	4285.5	3801.3
35°	4442.2	4394.7	4384.1	4917.6	5771.5	5532.1	5477.5	4996.8	4944.0	4665.8	4070.7
37.5°	4850.7	4817.3	4653.5	4984.5	5472.2	5393.0	5350.7	5215.2	5338.4	5002.1	4375.3
40°	5692.3	5599.0	5451.1	5127.1	5047.9	5081.4	5123.6	5495.1	5805.0	5461.7	4782.0
42.5°	6738.2	6717.0	6442.4	5838.5	5245.1	5290.9	5345.5	6079.7	6475.8	6153.6	5445.8
45°	7993.5	8023.5	7627.3	6914.2	6136.0	6174.7	6254.0	6942.4	7384.3	7229.4	6489.9
47.5°	9134.5	9111.6	8977.8	8236.5	7518.2	7431.9	7560.4	8049.9	8641.5	8666.1	7785.8
50°	10282.4	10403.9	10205.0	9914.5	9381.0	9199.6	9152.1	9391.5	10293.0	10175.0	9342.2
52.5°	11932.2	11995.6	11622.3	11548.4	11669.9	11081.8	11034.3	11092.4	11898.8	11493.8	10507.8
55°	12969.3	12932.3	12793.2	13370.7	13851.4	13117.2	13057.3	12823.1	13231.6	12425.2	11629.4
57.5°	13296.7	13349.6	13673.5	14717.6	15855.0	15231.7	15122.6	14457.0	14192.9	13293.2	12661.1
60°	13150.6	13247.4	13946.4	15499.4	17077.0	16983.6	16890.3	15772.3	14883.1	14018.6	13384.8
62.5°	12110.0	12245.6	13363.7	15360.3	17490.7	18073.5	17957.3	16592.8	15342.7	14370.8	13511.6
65°	10148.6	10249.0	11854.7	14097.9	16902.6	18446.8	18404.5	16849.8	15414.9	14048.6	12643.5
67.5°	7234.7	7576.3	9064.0	11881.2	15163.1	17809.4	17881.6	16541.7	14737.0	12655.9	10470.8
70°	4547.9	4780.3	5847.3	8505.9	12155.8	15624.4	15862.1	15131.4	12789.7	9865.2	7009.3
72.5°	2169.2	2341.7	3102.3	5384.2	8579.9	12293.2	12481.5	12421.7	9889.8	6215.2	3616.5
75°	966.6	1031.8	1480.7	2748.4	5539.1	8262.9	8750.6	8831.6	6180.0	3040.7	1406.8
77.5°	493.0	494.8	693.7	1331.1	2766.0	4929.9	5026.8	5310.2	3350.6	1339.9	489.5
80°	262.3	280.0	368.0	628.6	1435.0	2428.0	2415.7	2655.1	1486.0	656.7	163.7
82.5°	118.0	130.3	207.8	329.2	700.8	920.8	993.0	1086.3	637.4	419.0	72.2
85°	35.2	42.3	102.1	165.5	253.5	265.9	297.6	383.8	360.9	297.6	37.0
87.5°	5.3	5.3	42.3	45.8	37.0	47.5	49.3	54.6	116.2	109.2	19.4
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°	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5
2.5°	2148.0	2135.7	2091.7	2054.7	2023.0	2003.7	1980.8	1966.7	1959.7	1954.4	1956.1
5°	2156.8	2126.9	2051.2	1991.3	1945.6	1896.3	1862.8	1843.4	1834.6	1820.6	1820.6
7.5°	2206.1	2158.6	2053.0	1961.4	1882.2	1815.3	1751.9	1729.0	1713.2	1709.6	1706.1
10°	2276.6	2216.7	2072.3	1945.6	1832.9	1741.3	1651.5	1572.3	1510.7	1473.7	1468.4
12.5°	2364.6	2278.3	2102.3	1935.0	1790.6	1628.6	1390.9	1230.7	1123.3	1089.9	1095.2
15°	2445.6	2352.3	2132.2	1926.2	1713.2	1350.5	1081.1	898.0	843.4	838.1	839.9
17.5°	2542.4	2431.5	2167.4	1913.9	1500.1	1031.8	802.9	753.6	764.1	781.7	780.0
20°	2642.8	2516.0	2209.7	1839.9	1197.3	776.5	709.6	714.8	730.7	746.5	750.1
22.5°	2750.2	2612.9	2259.0	1662.1	913.8	676.1	672.6	679.6	695.5	713.1	716.6
25°	2898.1	2734.4	2295.9	1429.7	692.0	625.0	632.1	644.4	658.5	677.9	681.4
27.5°	3088.3	2898.1	2315.3	1126.8	598.6	579.3	581.0	598.6	616.2	633.8	633.8
30°	3334.8	3093.5	2276.6	852.2	552.9	535.3	528.2	538.8	561.7	579.3	581.0
32.5°	3554.8	3278.4	2174.5	651.5	519.4	494.8	477.1	478.9	487.7	498.3	500.0
35°	3774.9	3458.0	2000.1	547.6	484.2	456.0	429.6	415.5	408.5	403.2	408.5
37.5°	4056.6	3681.6	1767.7	498.3	454.3	419.0	382.1	352.1	327.5	311.6	315.2
40°	4419.3	3991.5	1493.1	466.6	426.1	383.8	334.5	295.8	253.5	239.5	232.4
42.5°	5018.0	4461.6	1204.3	440.2	397.9	346.9	285.2	232.4	193.7	179.6	183.1
45°	5963.5	5054.9	927.9	412.0	369.7	306.4	239.5	183.1	151.4	144.4	147.9
47.5°	7217.1	5822.6	714.8	380.3	334.5	262.3	188.4	144.4	125.0	123.2	121.5
50°	8396.7	6537.4	596.9	345.1	292.3	218.3	154.9	121.5	109.2	107.4	107.4
52.5°	9463.7	7049.8	486.0	304.6	246.5	179.6	130.3	107.4	96.8	91.6	91.6
55°	10412.7	7384.3	394.4	255.3	193.7	142.6	112.7	96.8	84.5	77.5	75.7
57.5°	11129.3	7424.8	295.8	204.2	144.4	110.9	96.8	84.5	70.4	61.6	58.1
60°	11435.7	7074.5	218.3	154.9	107.4	88.0	77.5	68.7	52.8	44.0	42.3
62.5°	11127.6	6393.1	162.0	118.0	82.8	65.1	54.6	51.1	37.0	26.4	24.6
65°	10023.6	5408.8	128.5	89.8	61.6	47.5	35.2	33.5	22.9	12.3	10.6
67.5°	8030.5	4236.2	102.1	66.9	44.0	31.7	22.9	21.1	12.3	3.5	3.5
70°	5222.2	2707.9	82.8	49.3	28.2	21.1	14.1	10.6	7.0	1.8	0.0
72.5°	2582.9	1265.9	66.9	38.7	19.4	10.6	5.3	3.5	5.3	0.0	0.0
75°	1001.8	450.7	49.3	26.4	10.6	5.3	3.5	0.0	1.8	0.0	0.0
77.5°	332.8	149.7	29.9	14.1	7.0	3.5	0.0	0.0	0.0	0.0	0.0
80°	123.2	58.1	15.8	8.8	3.5	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	49.3	22.9	10.6	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.6	14.1	7.0	5.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.6	10.6	7.0	5.3	3.5	1.8	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)