

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: P455912

Luminaire Tested: **GALN-SA7A-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23208 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

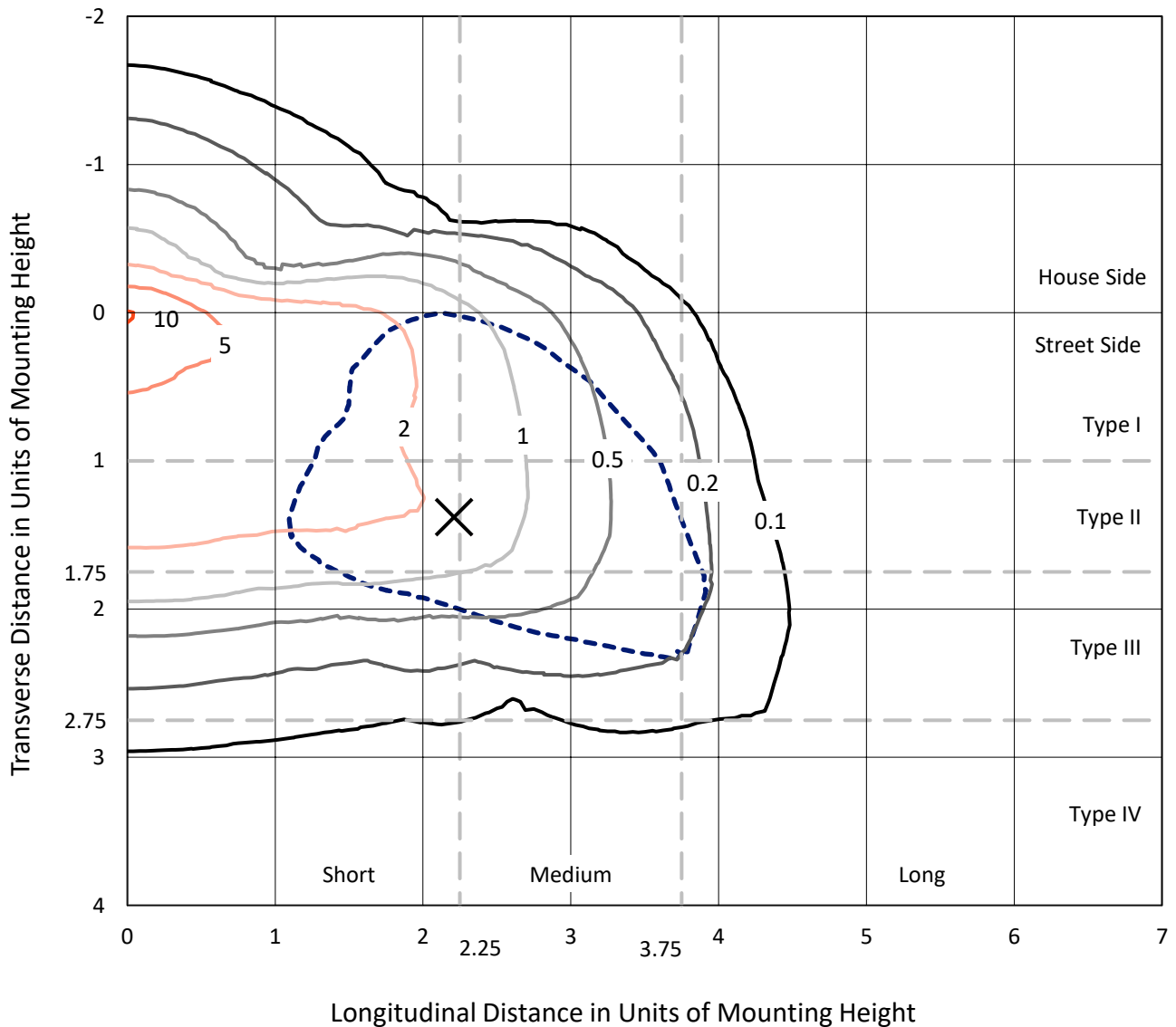
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

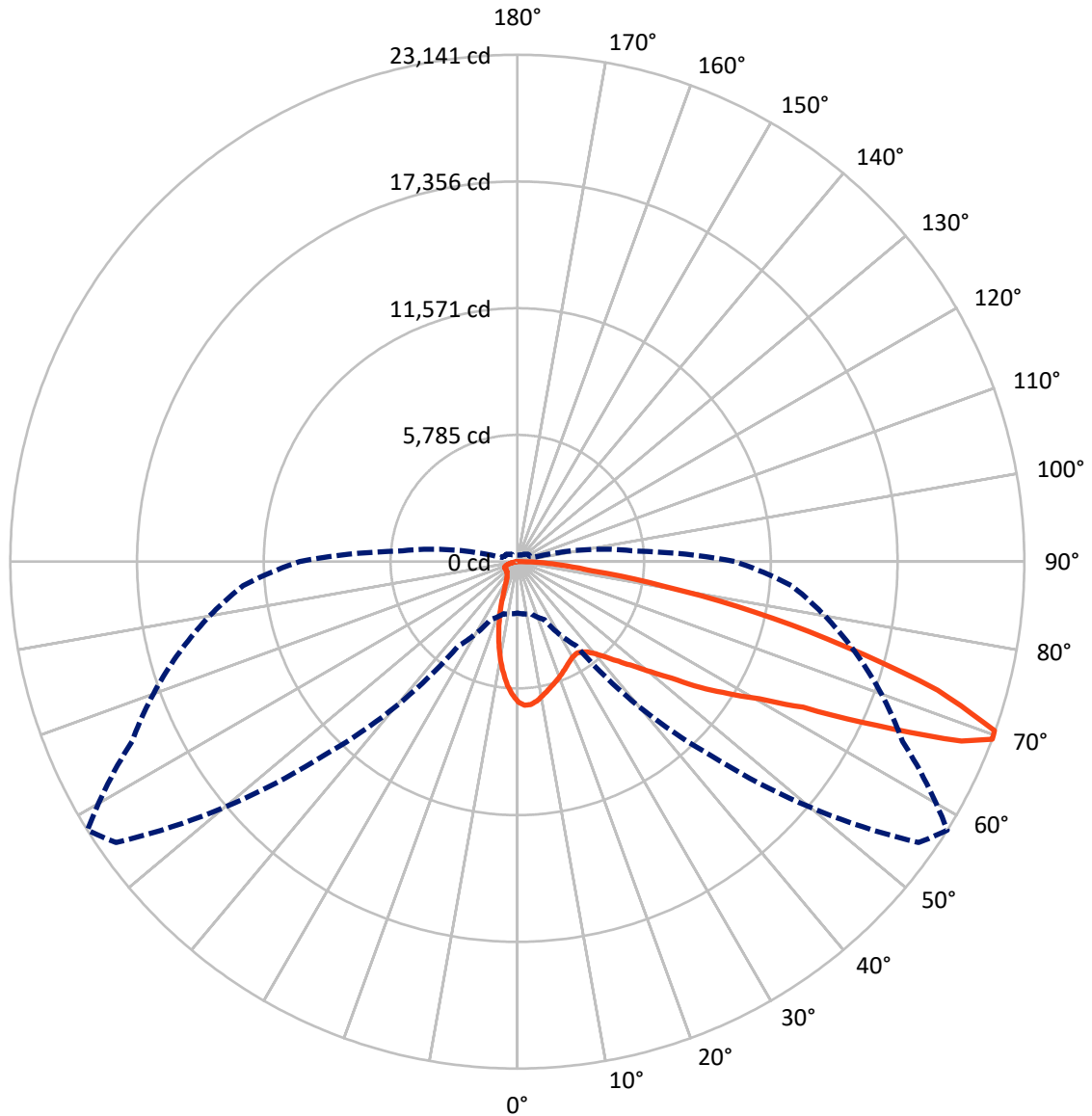
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3401.1	0.0	3401.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	19806.9	0.0	19806.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	23208.0	0.0	23208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.6	2.3
10°-20°	1196.0	5.2
20°-30°	1545.2	6.7
30°-40°	2006.9	8.6
40°-50°	2917.7	12.6
50°-60°	4655.8	20.1
60°-70°	6219.5	26.8
70°-80°	3585.3	15.4
80°-90°	537.0	2.3
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°	23208.0	100.0
0°-180°	23208.0	100.0

Coefficient of Utilization



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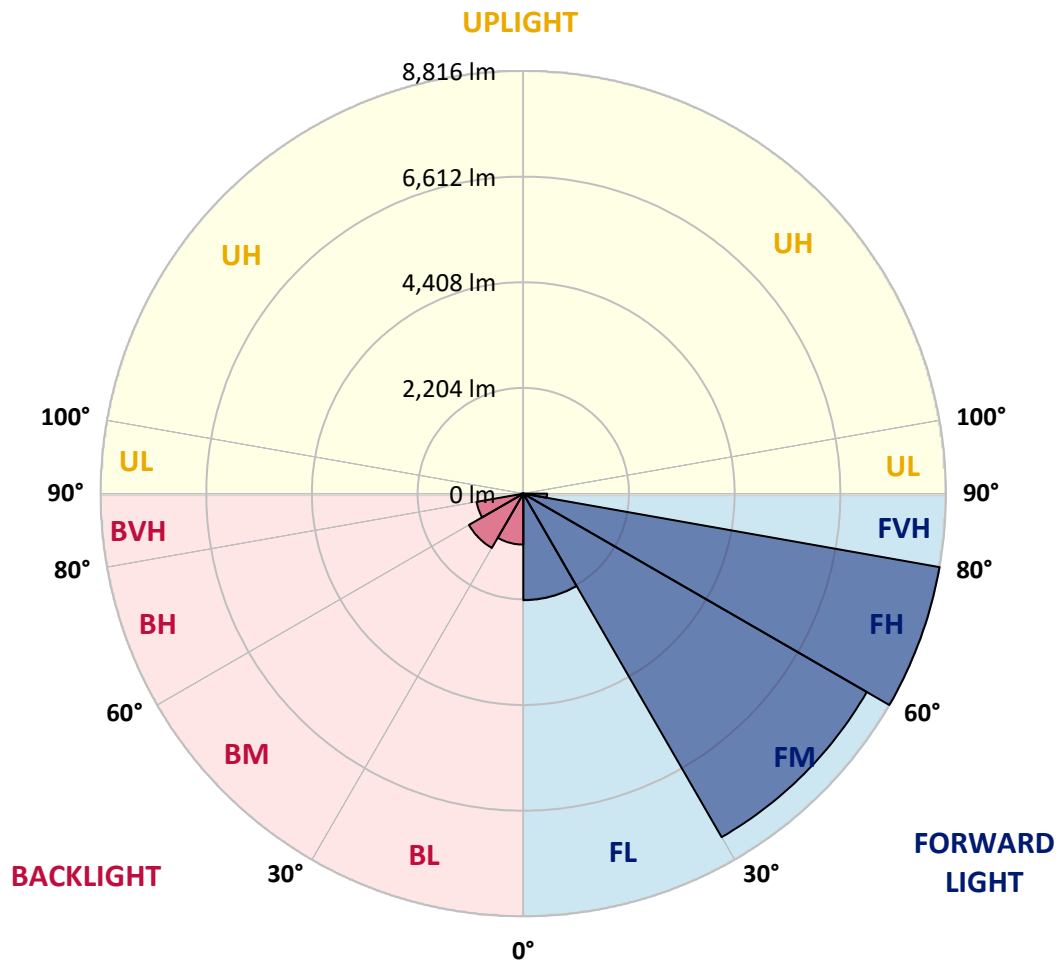
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2222.7	9.6			
FM	(30°-60°)	8272.4	35.6			
FH	(60°-80°)	8815.8	38.0			G4/12000
FVH	(80°-90°)	495.9	2.1			G3/500
BL	(0°-30°)	1063.1	4.6	B3/2500		
BM	(30°-60°)	1308.0	5.6	B2/2500		
BH	(60°-80°)	989.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	41.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6413.3	6413.3	6413.3	6413.3	6413.3	6413.3	6413.3	6413.3	6413.3	6413.3	6413.3
2.5°	6651.5	6669.6	6664.4	6658.0	6647.6	6619.1	6572.5	6564.8	6535.0	6471.6	6392.6
5°	6549.2	6564.8	6566.1	6575.1	6588.1	6582.9	6549.2	6545.4	6501.3	6415.9	6283.9
7.5°	6198.5	6219.2	6264.5	6315.0	6360.3	6403.0	6413.3	6419.8	6392.6	6294.3	6118.2
10°	5803.7	5824.4	5845.1	5920.2	6031.5	6137.6	6225.7	6237.3	6243.8	6153.2	5938.3
12.5°	5366.2	5408.9	5453.0	5564.3	5713.1	5880.1	6035.4	6060.0	6104.0	6035.4	5783.0
15°	4994.8	5038.8	5102.2	5201.9	5381.8	5622.5	5841.2	5881.4	5968.1	5933.1	5638.0
17.5°	4737.2	4752.7	4796.7	4910.6	5104.8	5358.5	5651.0	5731.2	5869.7	5860.7	5513.8
20°	4534.0	4553.4	4580.6	4650.5	4852.4	5120.3	5473.7	5577.2	5764.9	5795.9	5390.8
22.5°	4448.6	4462.8	4458.9	4496.5	4633.6	4902.9	5293.7	5416.7	5671.7	5751.9	5276.9
25°	4453.7	4466.7	4447.3	4438.2	4519.7	4711.3	5106.1	5262.7	5596.6	5722.2	5173.4
27.5°	4540.5	4549.5	4513.3	4477.0	4483.5	4592.2	4950.8	5124.2	5533.2	5735.1	5086.7
30°	4656.9	4673.8	4650.5	4606.5	4558.6	4563.8	4851.1	5021.9	5503.4	5780.4	5045.2
32.5°	4807.1	4822.6	4812.3	4777.3	4715.2	4646.6	4826.5	4984.4	5506.0	5872.3	5036.2
35°	4965.0	4996.1	5012.9	5010.3	4959.8	4840.7	4923.6	5054.3	5568.1	6026.3	5089.2
37.5°	5143.6	5169.5	5242.0	5288.6	5242.0	5103.5	5142.3	5232.9	5705.3	6249.0	5205.7
40°	5317.0	5355.9	5462.0	5607.0	5588.9	5467.2	5476.2	5535.8	5947.4	6580.3	5433.5
42.5°	5498.3	5544.8	5729.9	5944.8	5987.5	5893.0	5917.6	5970.7	6291.7	7039.8	5824.4
45°	5731.2	5786.9	6014.7	6282.6	6450.9	6392.6	6462.5	6488.4	6752.4	7637.8	6339.6
47.5°	6031.5	6096.2	6377.1	6711.0	6949.2	7002.2	7123.9	7108.4	7323.2	8345.7	7007.4
50°	6537.6	6573.8	6839.2	7179.6	7507.0	7746.5	7878.5	7903.1	8031.2	9034.3	7754.2
52.5°	7139.4	7171.8	7363.4	7661.1	8071.4	8578.7	8904.9	8824.6	8855.7	9873.0	8627.9
55°	7816.4	7870.7	7992.4	8190.4	8722.4	9469.2	10124.1	10143.5	9799.3	10675.5	9465.3
57.5°	8340.6	8432.5	8640.8	8923.0	9597.3	10459.4	11339.5	11352.4	10912.4	11532.3	10389.5
60°	8076.5	8185.3	8661.6	9348.8	10745.4	12187.3	12791.7	12717.9	11995.7	12508.3	11516.8
62.5°	6937.5	6956.9	7649.4	8723.7	11098.8	14498.9	14953.2	14641.3	13441.5	13745.6	12662.3
65°	4490.0	4616.8	5165.6	6670.9	9937.8	15781.6	18740.4	18019.5	15468.4	15150.0	13621.4
67.5°	2834.6	2802.2	3030.0	3809.2	6835.3	14651.6	21972.3	21858.4	18119.1	16036.6	13392.3
69°	2350.5	2386.7	2464.4	2920.0	4703.5	12509.6	22354.1	23141.1	19404.4	15966.7	12560.0
70°	2131.7	2148.6	2230.1	2588.6	3629.3	10477.5	21727.7	23106.1	19909.2	15674.2	11956.9
72.5°	1691.7	1690.4	1830.2	2153.7	2712.9	5981.0	17840.8	20060.6	19344.8	14312.5	9879.5
75°	1285.3	1306.0	1460.0	1822.4	2499.3	3268.1	12450.0	15448.9	15450.2	11304.6	6164.8
77.5°	926.7	939.7	1119.6	1529.9	2354.4	2649.5	8292.7	11080.6	10416.6	5179.8	1937.6
80°	607.0	614.8	752.0	1211.5	2122.7	2499.3	4917.1	6782.2	4913.2	1374.6	640.7
82.5°	332.6	371.5	459.5	784.4	1703.3	2309.1	2988.6	3432.5	1843.1	612.2	333.9
85°	167.0	177.3	258.9	458.2	1113.1	1910.4	2081.3	1968.7	951.3	304.2	173.4
87.5°	49.2	62.1	107.4	177.3	451.7	995.3	1158.4	1039.3	366.3	110.0	36.2
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°	6413.3	6413.3	6413.3	6413.3	6413.3	6413.3	6413.3	6413.3	6413.3	6413.3	6413.3
2.5°	6360.3	6337.0	6233.4	6140.2	6054.8	5964.2	5887.8	5820.5	5827.0	5828.3	5759.7
5°	6215.3	6162.2	5965.5	5781.7	5626.4	5429.7	5261.4	5152.7	5098.3	5025.8	5051.7
7.5°	6018.6	5916.3	5643.2	5337.8	5051.7	4796.7	4519.7	4329.5	4207.8	4090.0	4105.6
10°	5815.4	5651.0	5253.6	4849.8	4479.6	4071.9	3718.6	3415.7	3190.5	3106.4	3050.7
12.5°	5607.0	5390.8	4886.0	4348.9	3837.6	3349.7	2848.8	2523.9	2275.4	2143.4	2160.2
15°	5416.7	5154.0	4502.9	3848.0	3184.0	2602.9	2103.3	1793.9	1620.5	1584.2	1605.0
17.5°	5240.7	4896.4	4144.4	3361.3	2586.0	1951.8	1580.4	1405.6	1335.7	1316.3	1315.0
20°	5059.5	4677.7	3741.9	2841.0	2015.2	1513.1	1296.9	1215.4	1202.4	1210.2	1211.5
22.5°	4875.7	4407.1	3327.7	2324.6	1605.0	1237.4	1133.8	1111.8	1122.2	1140.3	1142.9
25°	4706.1	4169.0	2929.0	1871.6	1281.4	1087.2	1036.7	1036.7	1060.0	1087.2	1088.5
27.5°	4566.3	3938.6	2531.7	1485.9	1073.0	978.5	961.7	970.7	1003.1	1023.8	1025.1
30°	4451.2	3723.7	2156.3	1190.8	943.6	891.8	887.9	903.4	926.7	946.1	947.4
32.5°	4364.4	3534.8	1805.6	1000.5	854.2	825.8	824.5	836.1	849.1	854.2	859.4
35°	4330.8	3378.2	1484.6	880.1	794.7	776.6	776.6	775.3	780.5	783.1	785.6
37.5°	4358.0	3257.8	1236.1	802.5	750.7	737.8	730.0	722.2	719.6	719.6	720.9
40°	4473.2	3194.4	1051.0	752.0	719.6	700.2	686.0	676.9	667.9	670.5	673.0
42.5°	4717.8	3206.0	925.4	718.3	692.5	665.3	644.6	634.2	627.7	635.5	634.2
45°	5107.4	3322.5	845.2	695.0	665.3	630.3	610.9	600.6	600.6	612.2	616.1
47.5°	5652.3	3545.1	802.5	676.9	644.6	603.2	583.7	576.0	578.6	598.0	599.3
50°	6317.6	3932.1	794.7	667.9	634.2	583.7	561.7	554.0	560.4	581.1	583.7
52.5°	7051.4	4430.4	832.2	669.2	625.2	572.1	543.6	532.0	538.4	555.3	560.4
55°	7921.2	5054.3	929.3	674.3	612.2	565.6	530.7	504.8	512.5	524.2	525.5
57.5°	8809.1	5841.2	1100.2	675.6	601.9	554.0	508.7	475.0	475.0	482.8	486.7
60°	9893.7	6698.1	1325.4	676.9	603.2	537.1	478.9	441.4	436.2	440.1	441.4
62.5°	10970.6	7415.1	1362.9	673.0	616.1	520.3	446.5	407.7	398.6	397.4	394.8
65°	11445.6	7281.8	1117.0	654.9	630.3	510.0	420.7	375.4	359.8	354.6	354.6
67.5°	10671.6	6159.6	840.0	630.3	621.3	499.6	396.1	348.2	330.1	319.7	319.7
69°	9944.2	5478.8	754.6	613.5	598.0	482.8	380.5	333.9	311.9	300.3	296.4
70°	9382.5	5010.3	718.3	599.3	576.0	463.4	368.9	323.6	299.0	286.0	283.5
72.5°	7487.6	3930.8	629.0	544.9	490.5	389.6	327.5	291.2	267.9	253.7	249.8
75°	4315.2	2130.4	521.6	473.7	394.8	302.9	277.0	253.7	235.6	222.6	218.7
77.5°	1328.0	823.2	377.9	374.1	289.9	234.3	221.3	212.3	199.3	185.1	182.5
80°	559.1	419.4	256.3	252.4	192.9	163.1	159.2	157.9	152.7	141.1	137.2
82.5°	306.8	236.9	178.6	155.3	116.5	94.5	98.4	99.7	95.8	84.1	76.4
85°	150.1	129.4	86.7	69.9	53.1	33.7	32.4	38.8	36.2	25.9	28.5
87.5°	29.8	36.2	23.3	10.4	5.2	0.0	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)