

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: P457232

Luminaire Tested: **GALN-SA8C-740-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457232  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-740-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58096 lumens  
Efficiency: N/A  
Efficacy: 135.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5

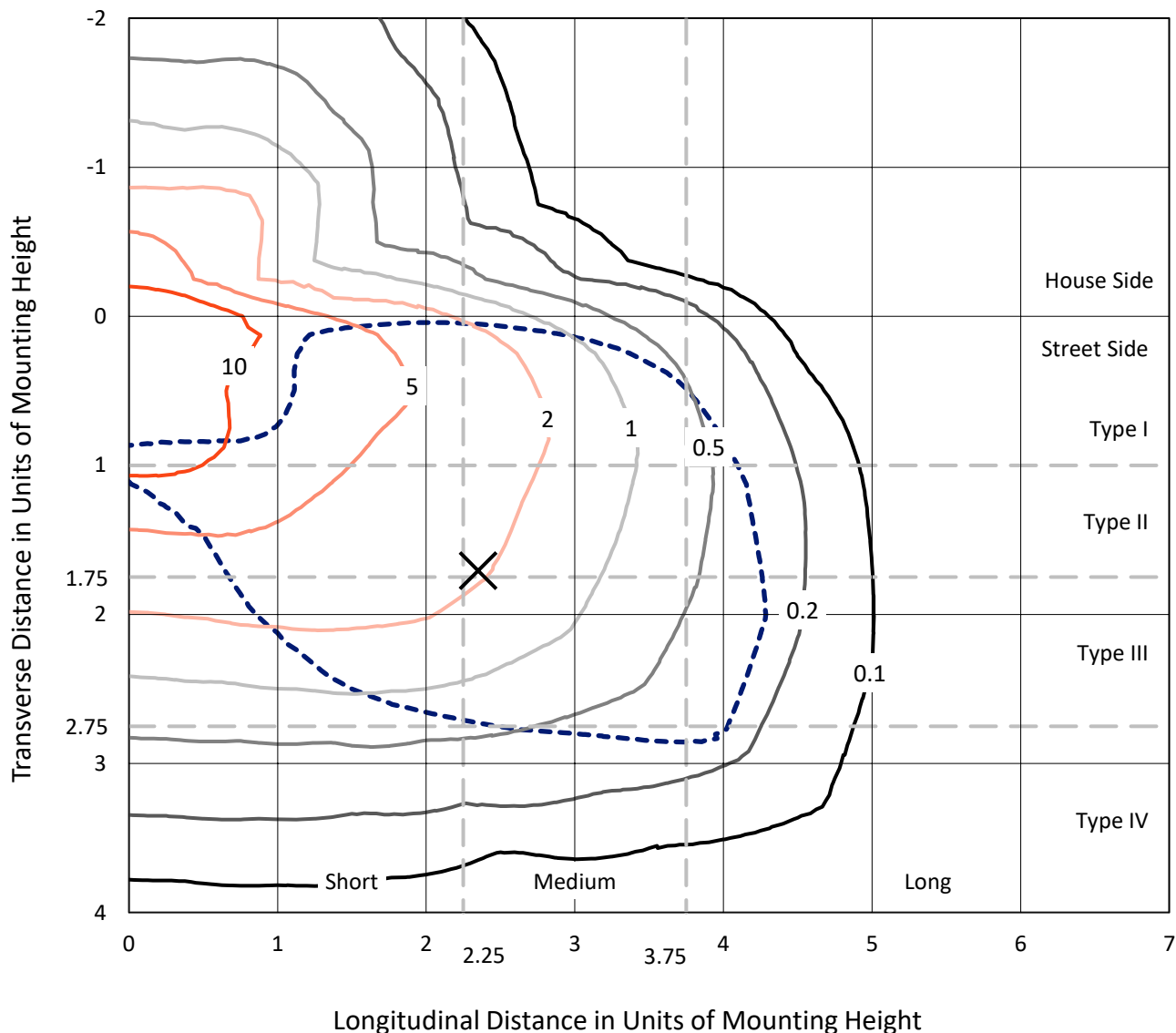
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

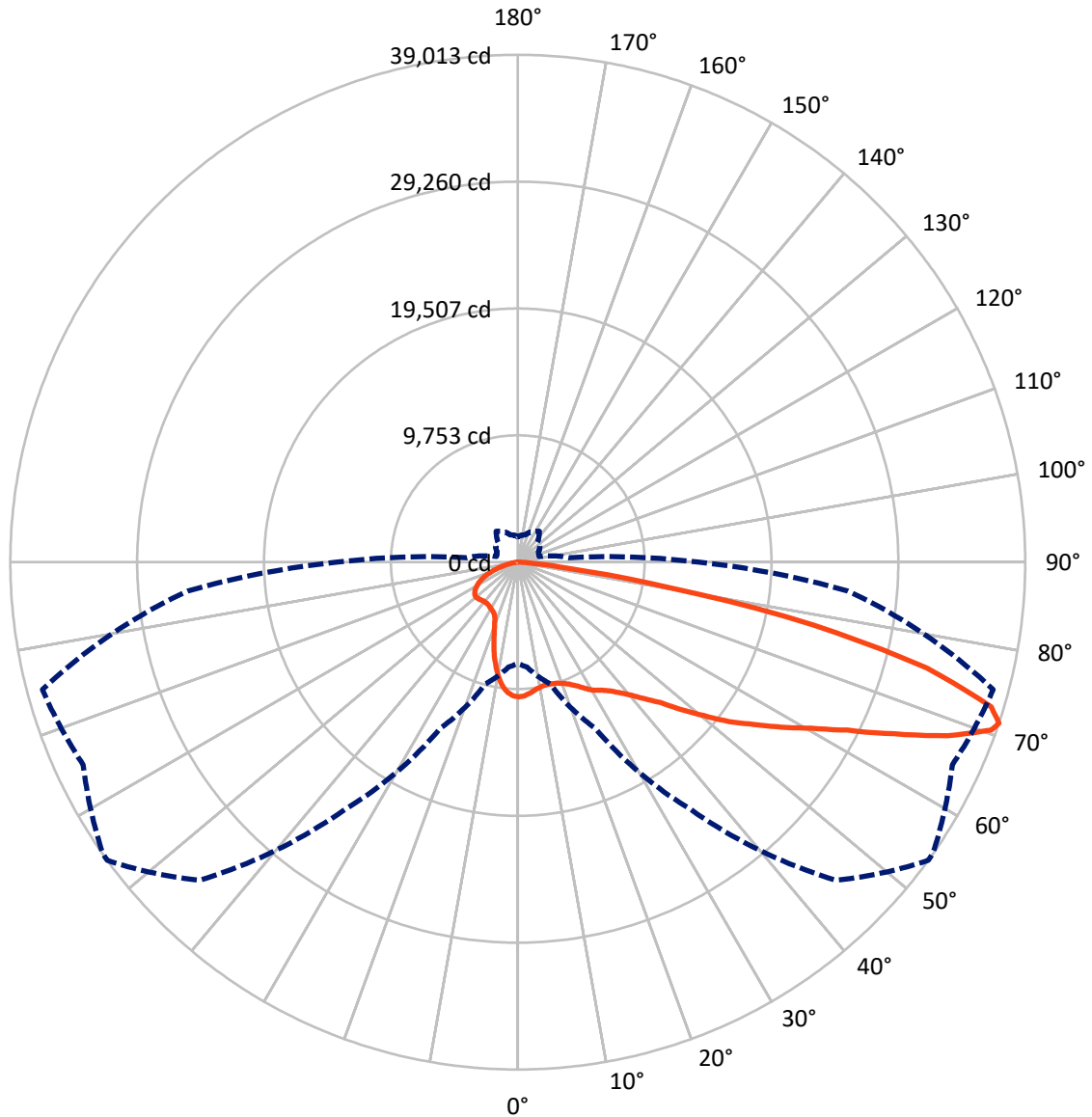
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10488.9	0.0	10488.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	47607.1	0.0	47607.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	58096.0	0.0	58096.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	923.7	1.6
10°-20°	2439.0	4.2
20°-30°	4061.1	7.0
30°-40°	6005.0	10.3
40°-50°	8458.2	14.6
50°-60°	11325.9	19.5
60°-70°	14275.5	24.6
70°-80°	9750.1	16.8
80°-90°	857.5	1.5
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°	58096.0	100.0
0°-180°	58096.0	100.0

**Coefficient of Utilization**



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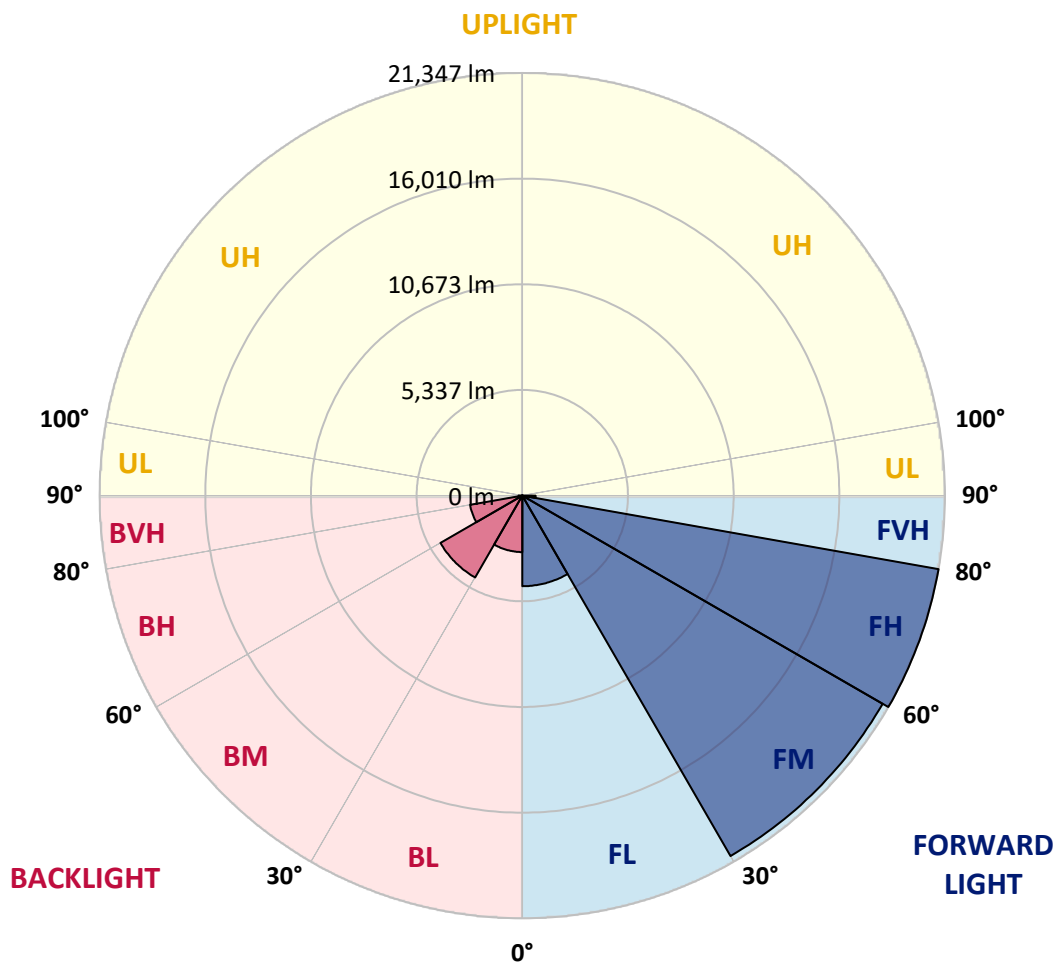
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4573.1	7.9			
FM	(30°-60°)	21017.0	36.2			
FH	(60°-80°)	21346.8	36.7			G5
FVH	(80°-90°)	670.2	1.2			G4/750
BL	(0°-30°)	2850.7	4.9	B4/5000		
BM	(30°-60°)	4772.1	8.2	B3/5000		
BH	(60°-80°)	2678.8	4.6	B4/5000		G4/5000
BVH	(80°-90°)	187.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10365.2	10365.2	10365.2	10365.2	10365.2	10365.2	10365.2	10365.2	10365.2	10365.2	10365.2
2.5°	10013.7	10060.8	10073.3	10104.7	10170.6	10224.0	10277.3	10271.0	10346.4	10377.7	10406.0
5°	9568.1	9580.7	9627.7	9690.5	9806.6	9954.1	10098.4	10101.6	10286.7	10434.2	10506.4
7.5°	9241.7	9282.5	9313.9	9379.8	9502.2	9662.2	9891.3	9910.2	10239.7	10531.5	10685.3
10°	9028.4	9075.4	9109.9	9191.5	9313.9	9492.8	9740.7	9775.2	10205.1	10685.3	10955.2
12.5°	8833.8	8880.9	8912.2	9018.9	9179.0	9398.6	9677.9	9718.7	10217.7	10864.1	11250.1
15°	8953.0	8990.7	8978.1	9009.5	9116.2	9367.3	9703.0	9743.8	10264.8	11036.7	11542.0
17.5°	9483.4	9514.8	9411.2	9292.0	9241.7	9426.9	9781.5	9825.4	10358.9	11215.6	11840.1
20°	10264.8	10349.5	10123.6	9856.8	9615.2	9640.3	9944.7	9991.8	10490.7	11394.5	12144.5
22.5°	11281.5	11344.3	11068.1	10628.8	10183.2	9954.1	10189.5	10217.7	10688.4	11626.7	12477.1
25°	12477.1	12514.8	12131.9	11567.1	10923.8	10490.7	10525.2	10575.4	11014.8	11890.3	12772.1
27.5°	13638.2	13757.5	13315.0	12624.6	11777.3	11055.6	10986.5	11017.9	11369.4	12037.8	12976.1
30°	15015.9	15006.5	14538.9	13738.7	12652.9	11670.6	11422.7	11416.5	11560.8	12110.0	13123.6
32.5°	16114.2	16242.9	15784.7	14912.3	13653.9	12307.7	11724.0	11711.4	11708.3	12235.5	13343.3
35°	17363.2	17382.0	16961.5	16082.8	14736.6	13107.9	12144.5	12081.7	12009.6	12505.4	13641.4
37.5°	18480.3	18568.2	18182.2	17196.9	15800.4	13939.5	12721.9	12681.1	12461.4	12973.0	14118.4
40°	19352.7	19418.6	19186.4	18248.1	16848.5	14837.0	13456.2	13380.9	13114.2	13738.7	14755.4
42.5°	19638.3	19773.2	19864.3	19403.0	18053.6	15900.8	14360.0	14265.9	14061.9	14899.8	15489.7
45°	19660.3	19873.7	20353.8	20375.8	19264.9	17174.9	15414.4	15348.5	15332.8	16387.2	16522.2
47.5°	19494.0	19710.5	20517.0	20953.2	20344.4	18461.5	16936.4	16832.8	16842.3	18226.2	17680.1
50°	19092.3	19349.6	20328.7	21323.5	21188.5	19798.4	18543.1	18508.6	18703.2	20325.6	18882.0
52.5°	18336.0	18646.7	20134.1	21555.7	21816.2	20950.0	20369.5	20272.2	20764.9	22603.8	20196.9
55°	16242.9	16710.5	19421.8	21684.4	22412.4	22051.5	22013.9	22189.6	22842.3	25089.2	21643.6
57.5°	15150.8	15502.3	17874.7	21706.3	23165.5	23331.9	23934.4	23978.3	25120.6	27728.4	23278.5
60°	14554.6	14865.2	17027.4	21562.0	24216.8	24916.6	25898.8	26055.8	27345.5	30587.2	24973.1
62.5°	14033.6	14300.4	16519.0	21063.0	25403.0	27267.1	28443.9	28519.2	29871.7	33744.1	26645.7
65°	12806.6	13111.0	15496.0	20564.1	26426.0	30204.3	31820.5	31732.6	32561.1	36468.0	27693.8
67.5°	11152.9	11538.8	13584.9	18841.2	26931.3	33414.6	35623.9	35514.0	35215.9	38253.6	27995.1
70°	9040.9	9248.0	11140.3	15863.2	24913.5	35099.8	38627.0	38510.9	36860.3	38489.0	26570.4
71°	7779.4	8102.6	9699.9	14090.1	23234.6	34585.1	39013.0	38981.6	36863.4	37839.4	25497.2
72.5°	6072.2	6269.9	7682.1	10917.5	19748.1	31660.4	38059.0	38178.3	36063.2	36034.9	23284.8
75°	3841.1	3928.9	4820.1	6426.9	10835.9	22421.8	32488.9	32812.1	32021.3	29495.1	17316.1
77.5°	2231.2	2344.2	2887.1	3787.7	4682.1	12169.6	23247.1	23598.6	22249.2	16239.7	7089.0
80°	1299.2	1424.7	1901.7	2199.8	2149.6	4515.7	11837.0	12436.3	9634.0	4101.5	1989.6
82.5°	721.8	806.5	1336.8	1340.0	1145.4	1474.9	3724.9	3897.5	2749.0	1653.8	812.8
85°	524.1	593.1	863.0	781.4	549.2	633.9	1296.0	1358.8	1110.9	696.7	263.6
87.5°	185.1	263.6	473.9	376.6	150.6	131.8	373.4	304.4	282.4	194.6	59.6
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°	10365.2	10365.2	10365.2	10365.2	10365.2	10365.2	10365.2	10365.2	10365.2	10365.2	10365.2
2.5°	10421.7	10427.9	10396.6	10340.1	10283.6	10211.4	10129.8	10067.1	10038.8	10035.7	10032.5
5°	10534.6	10550.3	10431.1	10255.4	10060.8	9822.3	9618.3	9386.1	9326.5	9232.3	9260.6
7.5°	10716.7	10707.2	10471.9	10098.4	9643.4	9138.2	8711.4	8463.5	8206.2	8134.0	8137.1
10°	10977.1	10917.5	10471.9	9778.4	9018.9	8268.9	7672.7	7296.1	7092.1	6922.7	6859.9
12.5°	11253.3	11102.6	10371.5	9329.6	8215.6	7296.1	6655.9	6147.6	6015.8	5877.7	5880.8
15°	11516.9	11265.8	10173.8	8698.8	7349.5	6257.4	5636.1	5331.7	5290.9	5306.5	5303.4
17.5°	11755.4	11381.9	9872.5	7995.9	6339.0	5366.2	5036.7	5058.6	5168.5	5246.9	5256.3
20°	11997.0	11451.0	9423.8	7054.5	5385.0	4826.4	4839.0	5011.6	5177.9	5284.6	5300.3
22.5°	12226.1	11482.4	8896.5	6144.4	4694.6	4597.3	4782.5	4967.6	5130.8	5234.4	5250.1
25°	12376.7	11410.2	8149.7	5193.6	4355.7	4515.7	4710.3	4867.2	5005.3	5112.0	5137.1
27.5°	12417.5	11178.0	7223.9	4424.7	4198.8	4437.3	4616.2	4732.3	4839.0	4939.4	4958.2
30°	12395.5	10835.9	6207.2	3972.9	4107.8	4346.3	4484.4	4569.1	4697.8	4776.2	4791.9
32.5°	12361.0	10437.4	5146.5	3731.2	4032.5	4261.6	4343.1	4418.5	4415.3	4383.9	4405.9
35°	12373.6	9960.4	4286.7	3586.9	3966.6	4198.8	4267.8	4173.7	3903.8	3891.3	3878.7
37.5°	12439.5	9489.7	3662.2	3486.4	3932.1	4189.4	4227.0	3794.0	3555.5	3445.6	3417.4
40°	12608.9	8940.5	3251.1	3411.1	3928.9	4261.6	4041.9	3602.6	3144.4	2931.0	2915.3
42.5°	12834.9	8400.7	3000.0	3364.1	3966.6	4371.4	3966.6	3332.7	2833.7	2708.2	2689.4
45°	13170.7	7782.5	2862.0	3342.1	4023.1	4412.2	3941.5	3135.0	2708.2	2607.8	2607.8
47.5°	13550.4	7192.6	2786.6	3326.4	4095.2	4383.9	3718.7	3072.2	2648.6	2661.1	2720.7
50°	13926.9	6681.0	2730.2	3291.9	4158.0	4368.3	3627.7	3069.1	2664.3	2824.3	2931.0
52.5°	14363.1	6320.2	2661.1	3235.4	4158.0	4267.8	3599.4	3131.8	2708.2	2755.3	2802.3
55°	14890.3	6207.2	2573.3	3113.0	4082.7	4016.8	3583.7	3222.8	2739.6	2629.7	2648.6
57.5°	15587.0	6389.2	2488.5	2959.2	3910.1	3756.3	3577.4	3247.9	2667.4	2576.4	2557.6
60°	16396.6	6750.1	2463.4	2802.3	3674.7	3533.5	3539.8	3175.8	2567.0	2472.8	2488.5
62.5°	16964.6	6966.6	2447.7	2683.1	3417.4	3288.7	3448.8	3087.9	2523.0	2441.5	2457.1
65°	16964.6	6703.0	2303.4	2501.1	3084.8	2993.8	3339.0	2978.1	2466.6	2372.4	2356.7
67.5°	16321.3	5934.2	2083.7	2228.1	2717.6	2658.0	3185.2	2846.3	2381.8	2309.7	2272.0
70°	14645.6	4500.1	1807.6	1908.0	2253.2	2306.5	2987.5	2667.4	2240.6	2152.7	2096.3
71°	13908.1	3919.5	1691.4	1744.8	2074.3	2152.7	2893.3	2592.1	2177.9	2052.3	1951.9
72.5°	12486.6	3301.3	1515.7	1537.7	1773.0	1914.2	2695.6	2447.7	2058.6	1879.7	1766.8
75°	9486.5	2410.1	1220.7	1208.2	1311.7	1518.8	2281.4	2181.0	1804.4	1562.8	1496.9
77.5°	4098.4	1311.7	913.2	922.6	891.2	1151.7	1795.0	1873.5	1547.1	1270.9	1211.3
80°	1242.7	756.3	624.5	637.0	596.2	772.0	1264.7	1468.6	1242.7	988.5	906.9
82.5°	637.0	451.9	426.8	420.5	379.7	436.2	765.7	1004.2	888.1	618.2	546.0
85°	276.2	241.6	210.3	204.0	178.9	156.9	273.0	502.1	470.7	345.2	329.5
87.5°	69.0	62.8	40.8	37.7	22.0	3.1	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)