

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: P458220

Luminaire Tested: **GALN-SA9C-760-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-760-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 63594 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

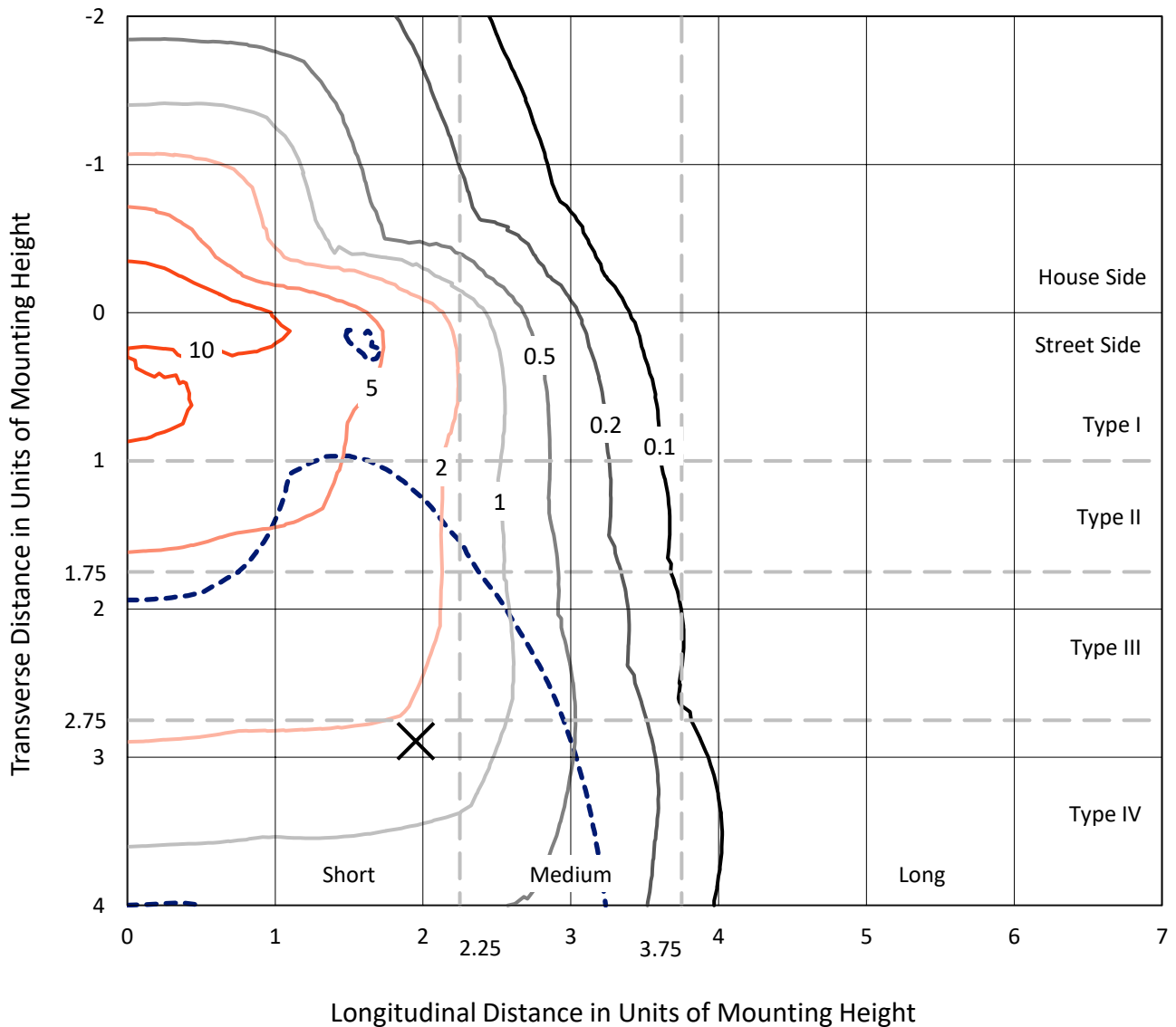
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

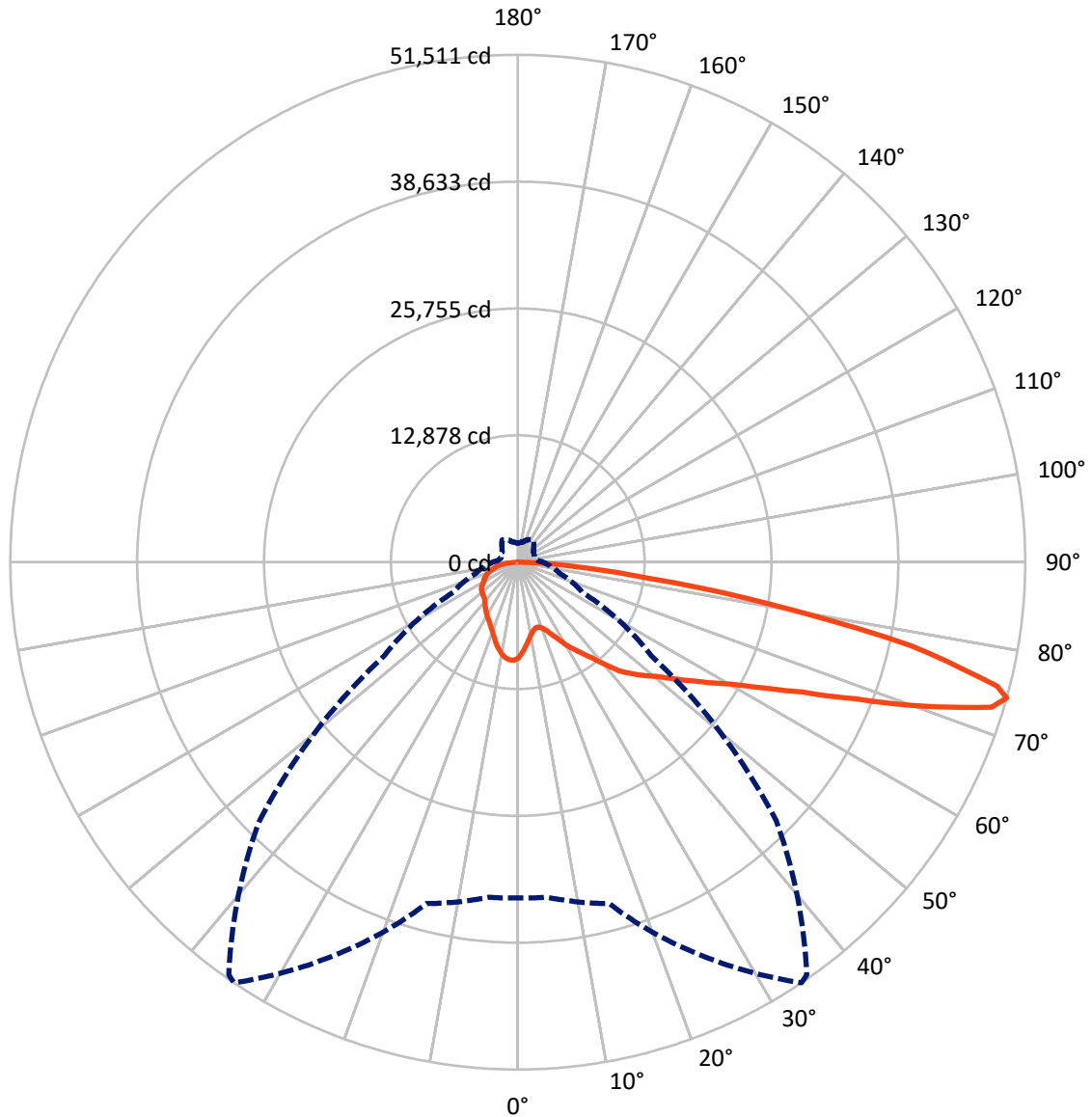
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13533.3	0.0	13533.3
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	50060.7	0.0	50060.7
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	63594.0	0.0	63594.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	883.1	1.4
10°-20°	2417.3	3.8
20°-30°	3985.5	6.3
30°-40°	5969.8	9.4
40°-50°	8678.5	13.6
50°-60°	12121.7	19.1
60°-70°	15175.8	23.9
70°-80°	12549.2	19.7
80°-90°	1813.3	2.9
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°	63594.0	100.0
0°-180°	63594.0	100.0

**Coefficient of Utilization**



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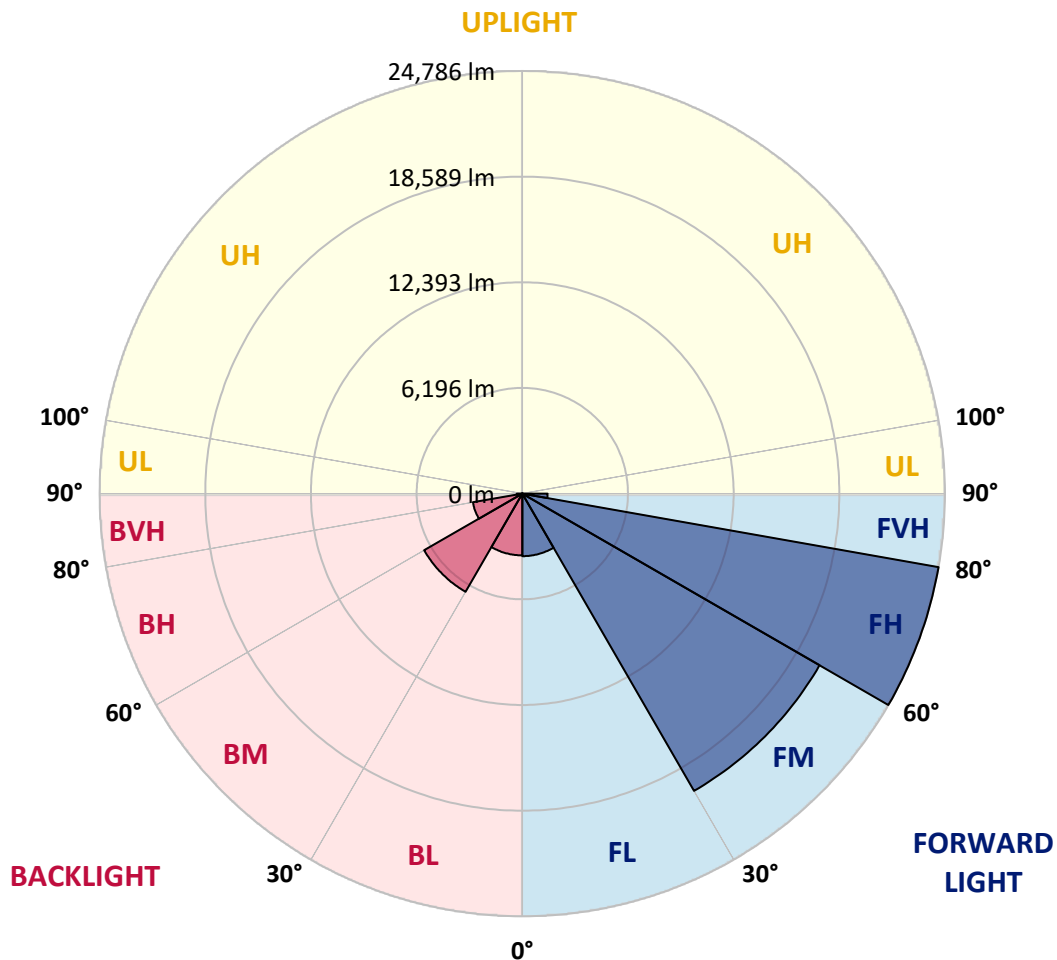
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3665.9	5.8			
FM	(30°-60°)	20123.8	31.6			
FH	(60°-80°)	24785.6	39.0			G5
FVH	(80°-90°)	1485.5	2.3			G5
BL	(0°-30°)	3619.9	5.7	B4/5000		
BM	(30°-60°)	6646.2	10.5	B4/8500		
BH	(60°-80°)	2939.3	4.6	B4/5000		G4/5000
BVH	(80°-90°)	327.8	0.5			G3/500
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	9709.5	9709.5	9709.5	9709.5	9709.5	9709.5	9709.5	9709.5	9709.5	9709.5	9709.5
2.5°	8973.2	9019.0	9043.7	9131.8	9152.9	9181.1	9255.1	9353.7	9480.5	9593.3	9691.9
5°	8226.3	8296.8	8339.1	8416.6	8568.1	8582.2	8779.5	9004.9	9262.1	9501.7	9699.0
7.5°	7518.2	7595.7	7630.9	7771.9	7972.7	8004.4	8293.3	8649.1	9078.9	9441.8	9744.8
10°	6986.2	7025.0	7102.5	7208.2	7447.7	7468.9	7845.8	8321.5	8878.1	9413.6	9822.3
12.5°	6697.3	6718.5	6736.1	6848.8	7084.9	7116.6	7511.2	8050.2	8719.6	9434.7	9949.1
15°	6739.6	6746.7	6669.1	6690.3	6880.5	6926.3	7317.4	7870.5	8620.9	9487.6	10139.4
17.5°	7095.4	7070.8	6880.5	6781.9	6915.8	6936.9	7278.6	7800.0	8575.1	9586.2	10336.7
20°	7655.6	7620.4	7292.7	7074.3	7151.8	7169.4	7405.5	7852.9	8620.9	9748.3	10643.2
22.5°	8353.2	8339.1	7842.3	7578.1	7574.6	7574.6	7697.9	8043.1	8758.3	9970.3	10963.8
25°	9329.1	9255.1	8606.8	8265.1	8170.0	8162.9	8148.8	8356.7	8934.5	10206.3	11344.2
27.5°	10329.6	10202.8	9625.0	9100.1	8895.7	8871.1	8779.5	8800.6	9159.9	10474.0	11777.6
30°	11228.0	11147.0	10604.4	10023.1	9780.0	9723.6	9470.0	9353.7	9536.9	10956.7	12468.1
32.5°	11915.0	11865.7	11442.9	10914.4	10555.1	10544.5	10174.6	10079.5	10125.3	11541.5	13257.3
35°	12471.6	12489.2	12274.3	11816.3	11404.1	11344.2	11097.6	10977.8	10844.0	12387.1	14250.8
37.5°	13232.6	13271.4	13257.3	12862.7	12358.9	12373.0	12316.6	12119.3	11763.5	13331.2	15353.5
40°	14071.1	14099.3	14095.8	13944.3	13680.0	13694.1	13673.0	13447.5	12915.5	14532.6	16579.5
42.5°	15230.2	15096.3	14747.5	14899.0	15054.0	15121.0	15265.4	15050.5	14321.2	15815.0	17731.5
45°	16526.7	16273.0	15483.8	15554.3	16128.6	16255.4	17051.6	16755.7	15846.7	17287.6	19087.9
47.5°	17344.0	17093.9	16428.0	16413.9	17174.9	17298.2	18707.4	18598.2	17234.8	18876.5	20743.8
50°	18073.3	18038.1	17287.6	17467.3	18210.7	18393.9	20511.2	20409.1	18619.4	20750.8	22547.6
52.5°	19154.9	18869.5	18270.6	18640.5	19623.4	19863.0	22301.0	22001.5	19891.2	22406.6	24298.5
55°	19641.0	19574.1	19538.9	19859.5	21208.8	21381.4	24041.3	23354.3	20976.3	23808.8	25630.2
57.5°	20941.1	20817.7	21166.5	21385.0	23076.0	23340.3	25859.2	24767.1	21927.5	24922.1	26278.5
60°	22625.1	22558.1	22878.7	23273.3	25161.7	25563.3	27930.8	25972.0	22692.0	25482.3	25922.7
62.5°	25140.5	25133.5	25073.6	25919.1	28117.5	28487.4	30308.9	27145.2	22811.8	25063.0	24083.6
65°	28748.1	28621.3	28099.9	29022.9	31795.6	32228.9	32785.6	27800.4	22089.6	22910.4	20278.7
67.5°	32521.3	32514.3	32091.5	33289.4	37076.7	37524.1	35882.3	27656.0	20084.9	18559.5	14402.3
70°	35649.8	35498.3	36037.4	39229.2	43823.3	44341.2	38591.6	25954.4	15998.2	12256.7	8557.5
72.5°	36400.2	36407.3	37527.6	43809.2	50302.2	50383.2	39567.5	21036.2	10706.6	6760.7	4280.5
74°	34089.1	34149.0	35885.9	44038.2	51510.6	51144.2	37073.1	16533.7	7239.9	4414.4	3086.2
75°	31115.6	30738.7	33250.6	42512.7	50256.4	49861.8	34152.5	13267.8	5524.2	3526.6	2702.2
77.5°	16635.9	17019.9	20895.3	31725.1	40828.7	40374.2	23157.1	6362.6	2984.0	2455.6	1944.7
80°	5922.3	6531.7	9181.1	16600.6	26176.3	26317.2	11051.8	2917.1	2099.7	1810.9	1374.0
82.5°	2416.8	2483.8	3942.3	7366.7	13292.5	13419.3	4513.0	1733.3	1500.8	1247.2	820.9
85°	944.2	972.4	1743.9	3311.7	5672.1	6042.0	1560.7	916.0	923.0	715.2	419.2
87.5°	317.1	359.4	715.2	1102.7	1927.1	1888.4	454.5	271.3	331.2	310.0	130.4
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°	9709.5	9709.5	9709.5	9709.5	9709.5	9709.5	9709.5	9709.5	9709.5	9709.5	9709.5
2.5°	9741.3	9808.2	9854.0	9903.3	9949.1	9963.2	9952.6	9984.3	9987.9	9991.4	9994.9
5°	9797.6	9889.2	9977.3	10026.6	10047.8	10030.1	9970.3	9938.5	9910.4	9889.2	9896.3
7.5°	9875.1	10005.5	10086.5	10107.7	10051.3	9970.3	9822.3	9706.0	9632.0	9582.7	9579.2
10°	9994.9	10121.7	10188.7	10128.8	9973.8	9776.5	9544.0	9325.5	9159.9	9110.6	9107.1
12.5°	10146.4	10290.9	10287.3	10111.2	9839.9	9487.6	9110.6	8857.0	8631.5	8518.8	8564.6
15°	10343.7	10452.9	10350.7	10033.7	9603.9	9121.2	8656.2	8310.9	8057.2	7937.4	7944.5
17.5°	10572.7	10667.8	10396.5	9896.3	9272.7	8652.6	8113.6	7786.0	7585.1	7497.1	7490.0
20°	10858.1	10886.2	10396.5	9656.7	8846.4	8106.6	7592.2	7363.2	7250.5	7204.7	7218.7
22.5°	11164.6	11108.2	10340.2	9318.5	8286.2	7535.8	7190.6	7088.4	7032.0	7025.0	7032.0
25°	11509.8	11351.3	10223.9	8860.5	7701.4	7042.6	6841.8	6859.4	6870.0	6870.0	6894.6
27.5°	11932.6	11615.5	10030.1	8282.7	7017.9	6584.6	6528.2	6651.5	6707.9	6718.5	6736.1
30°	12489.2	11904.4	9709.5	7560.5	6436.6	6172.4	6271.0	6436.6	6500.0	6538.8	6531.7
32.5°	13151.6	12221.5	9276.2	6838.3	5968.1	5883.5	6003.3	6172.4	6242.9	6264.0	6235.8
35°	13930.2	12580.8	8705.5	6161.8	5559.4	5608.7	5749.6	5802.5	5865.9	5865.9	5880.0
37.5°	14768.7	12869.7	8007.9	5541.8	5242.3	5422.0	5524.2	5474.8	5446.6	5411.4	5429.0
40°	15621.2	13084.6	7102.5	4928.8	4925.2	5228.2	5256.4	5115.5	5002.7	4967.5	4949.9
42.5°	16364.6	13218.5	6285.1	4453.1	4625.8	5038.0	5059.1	4833.6	4654.0	4548.3	4513.0
45°	17241.8	13373.5	5485.4	4058.6	4347.5	4886.5	4939.3	4636.3	4372.1	4150.2	4093.8
47.5°	18443.2	13725.8	4854.8	3752.1	4146.6	4791.4	4865.3	4474.3	4125.5	3836.6	3790.8
50°	19799.6	14208.5	4365.1	3544.2	3991.6	4706.8	4798.4	4308.7	3896.5	3575.9	3540.7
52.5°	21043.2	14469.2	3942.3	3357.5	3840.1	4551.8	4710.3	4188.9	3671.0	3315.2	3283.5
55°	21723.2	14046.4	3526.6	3174.3	3632.3	4351.0	4587.0	4023.3	3452.6	3177.8	3132.0
57.5°	21814.8	13172.7	3149.6	2977.0	3413.8	4104.4	4358.0	3822.5	3311.7	3082.7	3043.9
60°	21106.6	11869.2	2857.2	2814.9	3191.9	3826.0	4100.8	3646.4	3167.2	2977.0	2938.2
62.5°	19345.1	10452.9	2652.9	2667.0	2966.4	3533.6	3910.6	3477.3	3029.8	2860.7	2825.5
65°	16315.3	8628.0	2455.6	2515.5	2765.6	3304.6	3738.0	3336.3	2892.4	2772.6	2740.9
67.5°	11333.7	6228.8	2293.5	2356.9	2575.4	3072.1	3537.1	3184.8	2737.4	2674.0	2624.7
70°	6274.6	3833.1	2103.3	2177.2	2378.1	2811.4	3311.7	2955.8	2511.9	2483.8	2413.3
72.5°	3297.6	2441.5	1888.4	1969.4	2110.3	2476.7	2966.4	2705.7	2290.0	2170.2	2078.6
74°	2575.4	2001.1	1743.9	1828.5	1923.6	2279.4	2762.1	2526.0	2131.4	1990.5	1920.1
75°	2244.2	1782.7	1620.6	1729.8	1814.4	2145.5	2603.5	2399.2	2043.4	1909.5	1846.1
77.5°	1585.4	1335.2	1324.7	1455.0	1500.8	1881.3	2346.4	2184.3	1821.4	1680.5	1620.6
80°	1113.3	1000.5	1049.9	1130.9	1194.3	1662.9	2177.2	1888.4	1493.8	1328.2	1307.1
82.5°	725.7	655.3	750.4	824.4	845.5	1226.0	1758.0	1433.9	1088.6	884.3	820.9
85°	334.7	327.6	429.8	419.2	415.7	598.9	1042.8	838.5	627.1	468.6	440.4
87.5°	84.6	81.0	105.7	88.1	105.7	91.6	95.1	24.7	3.5	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)