

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: P456695

Luminaire Tested: **GALN-SA8A-727-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456695  
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-SA8A-727-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 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: 30610 lumens  
Efficiency: N/A  
Efficacy: 125.5 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

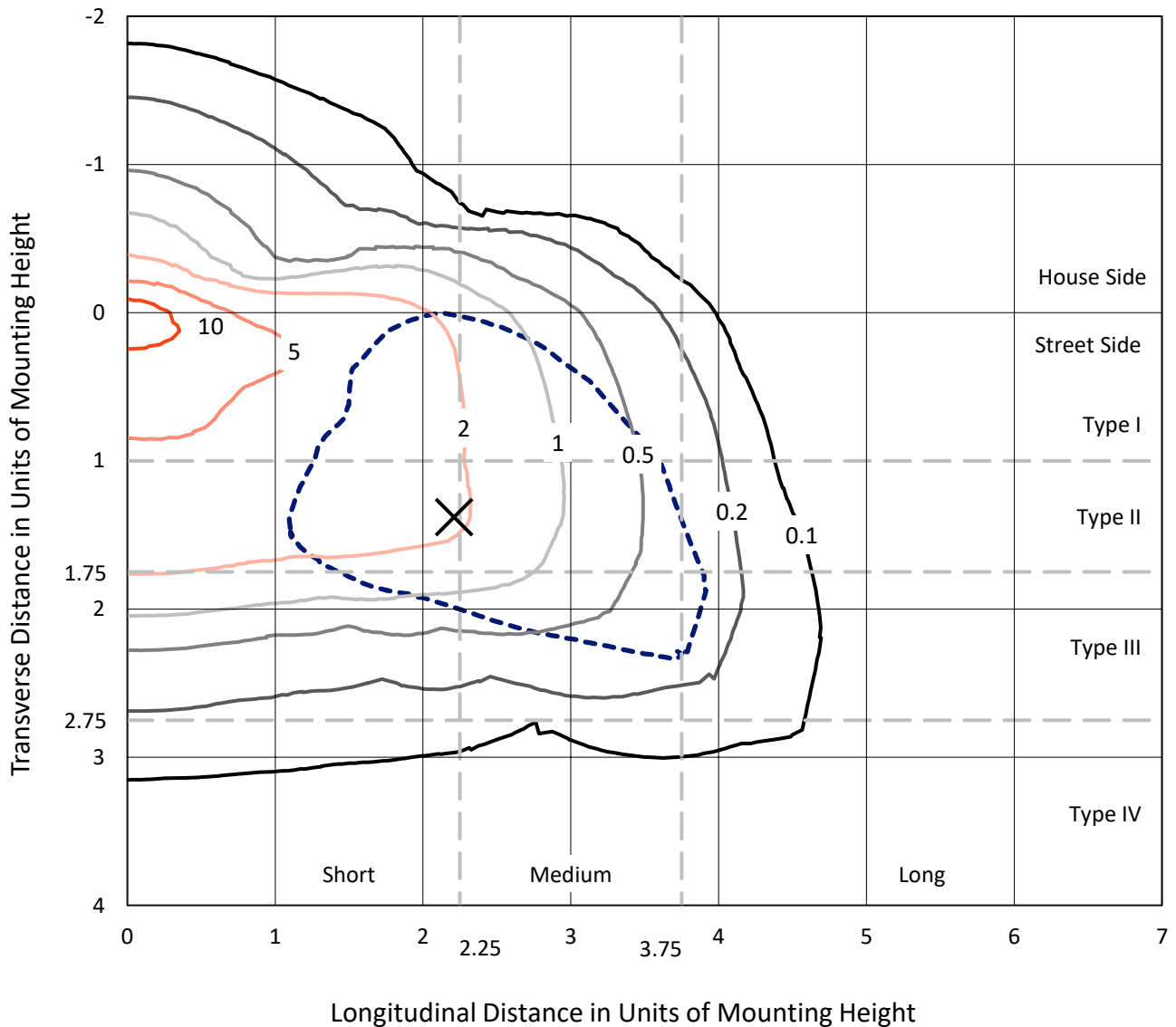
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

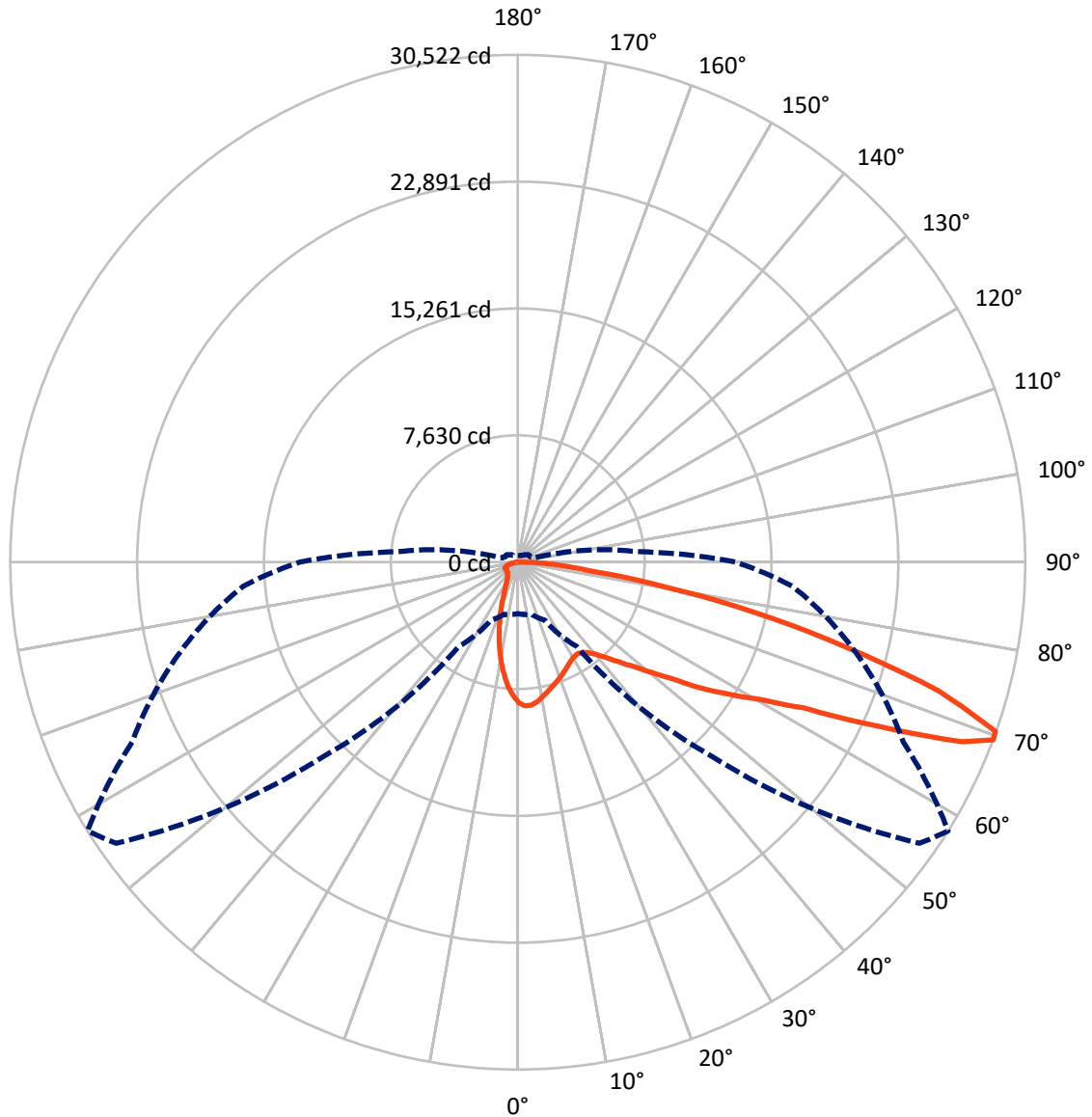
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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
<b>House Side</b>	Lumens	4485.9	0.0	4485.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	26124.1	0.0	26124.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	30610.0	0.0	30610.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	718.4	2.3
10°-20°	1577.4	5.2
20°-30°	2038.0	6.7
30°-40°	2647.0	8.6
40°-50°	3848.3	12.6
50°-60°	6140.7	20.1
60°-70°	8203.2	26.8
70°-80°	4728.8	15.4
80°-90°	708.3	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°	30610.0	100.0
0°-180°	30610.0	100.0

**Coefficient of Utilization**



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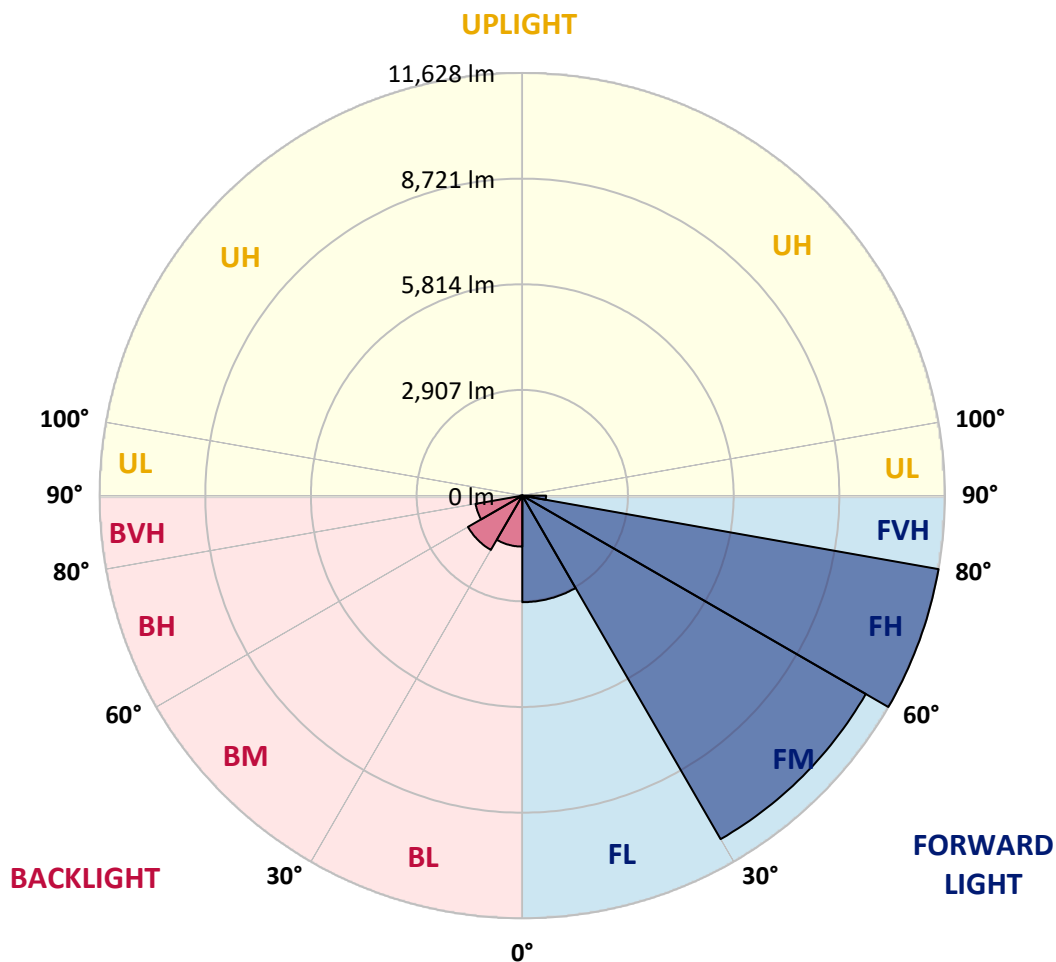
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2931.7	9.6			
FM	(30°-60°)	10910.9	35.6			
FH	(60°-80°)	11627.6	38.0			G4/12000
FVH	(80°-90°)	654.0	2.1			G4/750
BL	(0°-30°)	1402.1	4.6	B3/2500		
BM	(30°-60°)	1725.1	5.6	B2/2500		
BH	(60°-80°)	1304.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	54.3	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°	8458.8	8458.8	8458.8	8458.8	8458.8	8458.8	8458.8	8458.8	8458.8	8458.8	8458.8
2.5°	8772.9	8796.8	8790.0	8781.5	8767.8	8730.2	8668.8	8658.5	8619.3	8535.6	8431.5
5°	8638.1	8658.5	8660.3	8672.2	8689.3	8682.4	8638.1	8632.9	8574.9	8462.2	8288.1
7.5°	8175.4	8202.7	8262.5	8329.1	8388.8	8445.2	8458.8	8467.3	8431.5	8301.8	8069.6
10°	7654.8	7682.1	7709.4	7808.4	7955.2	8095.2	8211.3	8226.6	8235.2	8115.7	7832.3
12.5°	7077.7	7134.1	7192.1	7338.9	7535.3	7755.5	7960.3	7992.8	8050.8	7960.3	7627.4
15°	6587.8	6645.8	6729.5	6860.9	7098.2	7415.8	7704.3	7757.2	7871.6	7825.5	7436.2
17.5°	6248.1	6268.6	6326.6	6476.8	6732.9	7067.5	7453.3	7559.2	7741.8	7729.9	7272.4
20°	5980.1	6005.7	6041.5	6133.7	6400.0	6753.4	7219.4	7356.0	7603.5	7644.5	7110.2
22.5°	5867.4	5886.2	5881.1	5930.6	6111.5	6466.6	6982.1	7144.3	7480.6	7586.5	6960.0
25°	5874.2	5891.3	5865.7	5853.7	5961.3	6213.9	6734.6	6941.2	7381.6	7547.2	6823.4
27.5°	5988.6	6000.5	5952.8	5905.0	5913.5	6056.9	6529.8	6758.5	7298.0	7564.3	6709.0
30°	6142.2	6164.4	6133.7	6075.7	6012.5	6019.3	6398.3	6623.7	7258.7	7624.0	6654.4
32.5°	6340.3	6360.8	6347.1	6301.0	6219.1	6128.6	6365.9	6574.1	7262.1	7745.2	6642.4
35°	6548.5	6589.5	6611.7	6608.3	6541.7	6384.7	6493.9	6666.3	7344.1	7948.4	6712.4
37.5°	6784.1	6818.3	6913.9	6975.3	6913.9	6731.2	6782.4	6901.9	7525.0	8242.0	6866.1
40°	7012.9	7064.1	7204.1	7395.3	7371.4	7210.9	7222.9	7301.4	7844.2	8679.0	7166.5
42.5°	7251.9	7313.3	7557.4	7840.8	7897.2	7772.5	7805.0	7875.0	8298.3	9285.1	7682.1
45°	7559.2	7632.6	7933.0	8286.4	8508.3	8431.5	8523.7	8557.8	8906.1	10073.8	8361.5
47.5°	7955.2	8040.6	8411.0	8851.5	9165.6	9235.6	9396.0	9375.5	9658.9	11007.6	9242.4
50°	8622.7	8670.5	9020.5	9469.4	9901.3	10217.2	10391.3	10423.7	10592.7	11915.7	10227.4
52.5°	9416.5	9459.2	9711.8	10104.5	10645.6	11314.8	11745.0	11639.2	11680.2	13022.0	11379.7
55°	10309.3	10381.0	10541.5	10802.7	11504.3	12489.3	13353.1	13378.8	12924.7	14080.4	12484.2
57.5°	11000.7	11121.9	11396.8	11768.9	12658.3	13795.3	14956.1	14973.2	14392.8	15210.5	13703.1
60°	10652.5	10795.9	11424.1	12330.6	14172.6	16074.3	16871.5	16774.2	15821.6	16497.7	15190.0
62.5°	9150.2	9175.8	10089.1	11506.0	14638.6	19123.2	19722.4	19311.0	17728.5	18129.7	16700.8
65°	5922.0	6089.3	6813.1	8798.5	13107.3	20815.0	24717.5	23766.6	20401.9	19981.9	17965.8
67.5°	3738.6	3695.9	3996.4	5024.1	9015.3	19324.7	28980.2	28830.0	23898.1	21151.3	17663.6
69°	3100.1	3147.9	3250.4	3851.3	6203.7	16499.4	29483.8	30521.7	25593.2	21059.1	16566.0
70°	2811.6	2833.8	2941.4	3414.3	4786.8	13819.2	28657.5	30475.6	26259.0	20673.3	15770.4
72.5°	2231.2	2229.5	2413.9	2840.7	3578.1	7888.6	23531.0	26458.8	25514.7	18877.4	13030.5
75°	1695.2	1722.5	1925.6	2403.6	3296.5	4310.5	16420.9	20376.3	20378.0	14910.0	8131.0
77.5°	1222.3	1239.4	1476.7	2017.8	3105.3	3494.5	10937.6	14614.7	13739.0	6831.9	2555.6
80°	800.6	810.9	991.8	1597.9	2799.7	3296.5	6485.4	8945.3	6480.3	1813.0	845.0
82.5°	438.7	489.9	606.0	1034.5	2246.6	3045.5	3941.8	4527.3	2430.9	807.5	440.4
85°	220.2	233.9	341.4	604.3	1468.1	2519.7	2745.1	2596.5	1254.7	401.2	228.8
87.5°	64.9	81.9	141.7	233.9	595.8	1312.8	1527.9	1370.8	483.1	145.1	47.8
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°	8458.8	8458.8	8458.8	8458.8	8458.8	8458.8	8458.8	8458.8	8458.8	8458.8	8458.8
2.5°	8388.8	8358.1	8221.5	8098.6	7985.9	7866.4	7765.7	7676.9	7685.5	7687.2	7596.7
5°	8197.6	8127.6	7868.1	7625.7	7420.9	7161.4	6939.5	6796.1	6724.4	6628.8	6662.9
7.5°	7938.1	7803.3	7443.1	7040.2	6662.9	6326.6	5961.3	5710.3	5549.9	5394.5	5415.0
10°	7670.1	7453.3	6929.2	6396.6	5908.4	5370.6	4904.6	4505.1	4208.1	4097.1	4023.7
12.5°	7395.3	7110.2	6444.4	5735.9	5061.6	4418.0	3757.4	3328.9	3001.1	2827.0	2849.2
15°	7144.3	6797.8	5939.1	5075.3	4199.5	3433.0	2774.1	2366.1	2137.3	2089.5	2116.8
17.5°	6912.2	6458.1	5466.2	4433.4	3410.8	2574.3	2084.4	1853.9	1761.8	1736.1	1734.4
20°	6673.2	6169.6	4935.3	3747.1	2658.0	1995.6	1710.5	1603.0	1585.9	1596.2	1597.9
22.5°	6430.7	5812.8	4389.0	3066.0	2116.8	1632.0	1495.4	1466.4	1480.1	1504.0	1507.4
25°	6207.1	5498.7	3863.2	2468.5	1690.1	1434.0	1367.4	1367.4	1398.1	1434.0	1435.7
27.5°	6022.7	5194.8	3339.1	1959.8	1415.2	1290.6	1268.4	1280.3	1323.0	1350.3	1352.0
30°	5870.8	4911.4	2844.1	1570.6	1244.5	1176.2	1171.1	1191.6	1222.3	1247.9	1249.6
32.5°	5756.4	4662.2	2381.4	1319.6	1126.7	1089.1	1087.4	1102.8	1119.9	1126.7	1133.5
35°	5712.0	4455.6	1958.1	1160.8	1048.2	1024.3	1024.3	1022.6	1029.4	1032.8	1036.2
37.5°	5747.9	4296.8	1630.3	1058.4	990.1	973.1	962.8	952.6	949.2	949.2	950.9
40°	5899.8	4213.2	1386.2	991.8	949.2	923.6	904.8	892.8	880.9	884.3	887.7
42.5°	6222.5	4228.6	1220.6	947.5	913.3	877.5	850.1	836.5	828.0	838.2	836.5
45°	6736.3	4382.2	1114.8	916.7	877.5	831.4	805.8	792.1	792.1	807.5	812.6
47.5°	7455.0	4675.8	1058.4	892.8	850.1	795.5	769.9	759.7	763.1	788.7	790.4
50°	8332.5	5186.3	1048.2	880.9	836.5	769.9	740.9	730.7	739.2	766.5	769.9
52.5°	9300.4	5843.5	1097.7	882.6	824.5	754.5	717.0	701.6	710.2	732.4	739.2
55°	10447.6	6666.3	1225.7	889.4	807.5	746.0	699.9	665.8	676.0	691.4	693.1
57.5°	11618.7	7704.3	1451.1	891.1	793.8	730.7	670.9	626.5	626.5	636.8	641.9
60°	13049.3	8834.4	1748.1	892.8	795.5	708.5	631.6	582.1	575.3	580.4	582.1
62.5°	14469.6	9780.1	1797.6	887.7	812.6	686.3	589.0	537.7	525.8	524.1	520.7
65°	15096.1	9604.3	1473.3	863.8	831.4	672.6	554.8	495.1	474.6	467.8	467.8
67.5°	14075.3	8124.2	1107.9	831.4	819.4	659.0	522.4	459.2	435.3	421.7	421.7
69°	13115.9	7226.3	995.3	809.2	788.7	636.8	501.9	440.4	411.4	396.1	390.9
70°	12375.0	6608.3	947.5	790.4	759.7	611.2	486.5	426.8	394.3	377.3	373.9
72.5°	9875.7	5184.5	829.7	718.7	647.0	513.8	431.9	384.1	353.4	334.6	329.5
75°	5691.6	2809.9	688.0	624.8	520.7	399.5	365.3	334.6	310.7	293.6	288.5
77.5°	1751.5	1085.7	498.5	493.4	382.4	309.0	291.9	280.0	262.9	244.1	240.7
80°	737.5	553.1	338.0	332.9	254.4	215.1	210.0	208.3	201.4	186.1	181.0
82.5°	404.6	312.4	235.6	204.9	153.6	124.6	129.7	131.4	126.3	111.0	100.7
85°	198.0	170.7	114.4	92.2	70.0	44.4	42.7	51.2	47.8	34.1	37.6
87.5°	39.3	47.8	30.7	13.7	6.8	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)