

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: P955913

Luminaire Tested: **GALN-SB8D-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-722-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68886 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 584.9
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



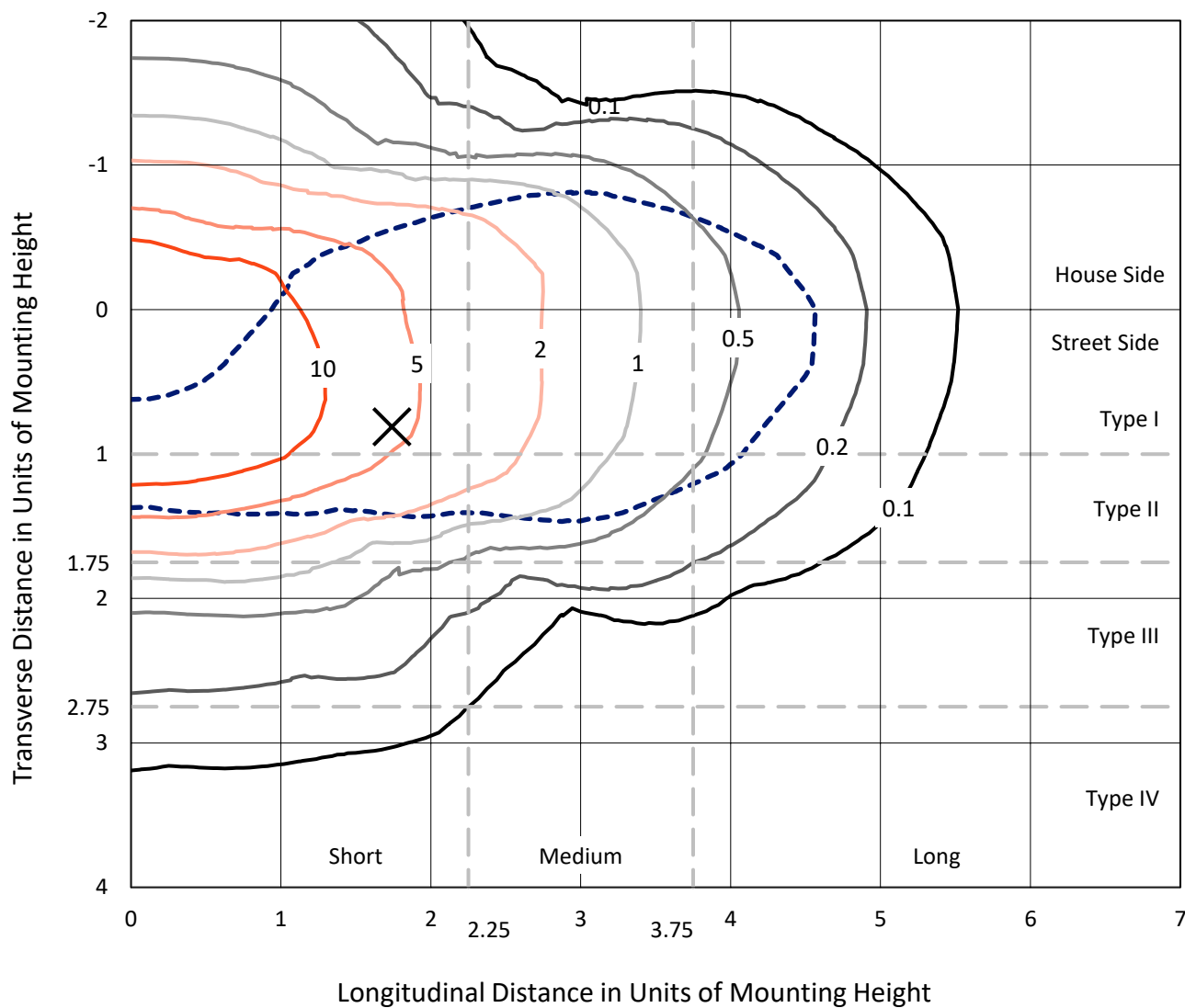
REPORT NUMBER: P955913

CATALOG NUMBER: GALN-SB8D-722-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

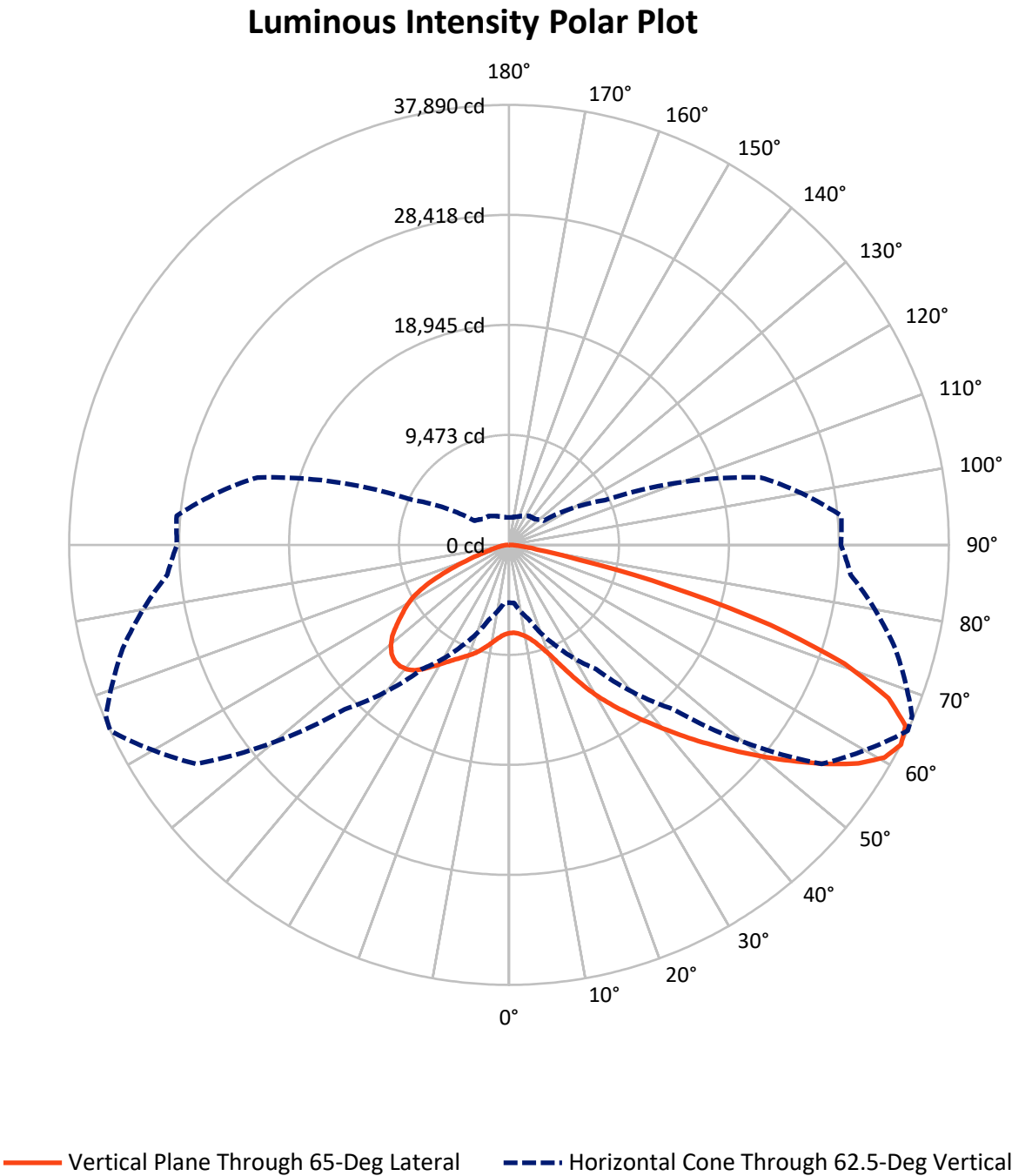
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
 Type II - Short - N/A

REPORT NUMBER: P955913
CATALOG NUMBER: GALN-SB8D-722-U-T2U



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21737.4	0.0	21737.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	47148.6	0.0	47148.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	68886.0	0.0	68886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.8	1.1
10°-20°	2566.4	3.7
20°-30°	5203.7	7.6
30°-40°	9004.8	13.1
40°-50°	13627.1	19.8
50°-60°	15976.9	23.2
60°-70°	13394.7	19.4
70°-80°	7395.0	10.7
80°-90°	960.6	1.4
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°	68886.0	100.0
0°-180°	68886.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955913

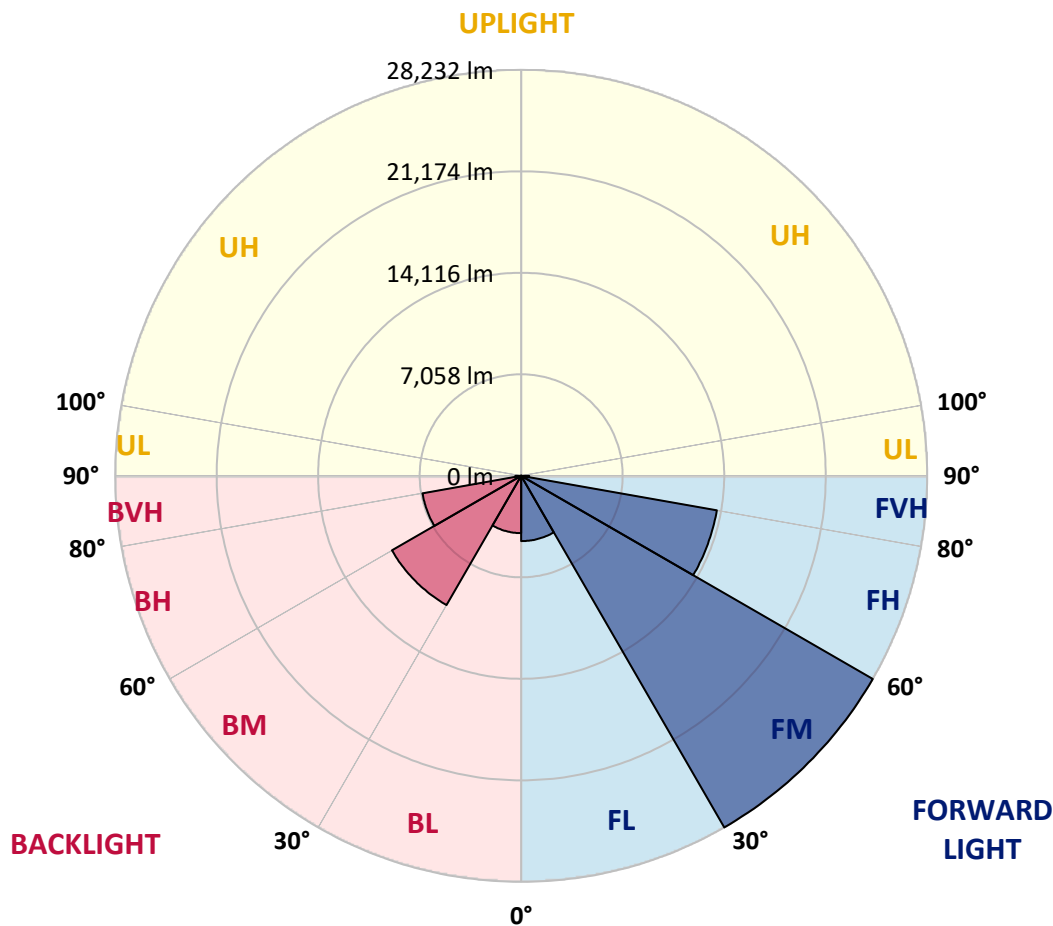
CATALOG NUMBER: GALN-SB8D-722-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4540.5	6.6			
FM	(30°-60°)	28231.7	41.0			
FH	(60°-80°)	13816.5	20.1			G5
FVH	(80°-90°)	559.8	0.8			G4/750
BL	(0°-30°)	3986.4	5.8	B4/5000		
BM	(30°-60°)	10377.1	15.1	B5		
BH	(60°-80°)	6973.2	10.1	B5		G5
BVH	(80°-90°)	400.7	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short



REPORT NUMBER: P955913

CATALOG NUMBER: GALN-SB8D-722-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7590.9	7590.9	7590.9	7590.9	7590.9	7590.9	7590.9	7590.9	7590.9	7590.9	7590.9
2.5°	7540.9	7519.5	7537.3	7537.3	7544.5	7540.9	7565.9	7573.1	7583.8	7605.2	7605.2
5°	7465.9	7462.3	7494.4	7523.0	7551.6	7576.6	7608.8	7655.3	7662.4	7687.4	7719.6
7.5°	7440.8	7419.4	7469.4	7505.2	7573.1	7633.8	7719.6	7798.2	7830.4	7841.1	7901.9
10°	7633.8	7598.1	7644.5	7666.0	7723.2	7783.9	7884.0	8009.1	8044.8	8087.7	8155.6
12.5°	7962.6	7923.3	7991.2	8023.4	8077.0	8130.6	8198.5	8320.0	8337.9	8416.5	8480.8
15°	8412.9	8366.5	8409.4	8448.7	8538.0	8588.1	8656.0	8773.9	8773.9	8834.7	8881.1
17.5°	9024.1	8963.3	8995.5	9009.8	9067.0	9142.0	9256.4	9360.0	9413.6	9392.2	9327.8
20°	9935.4	9860.4	9860.4	9788.9	9767.4	9828.2	9978.3	10121.3	10178.4	10067.6	9910.4
22.5°	11304.2	11197.0	11136.2	10893.2	10796.7	10803.9	10954.0	11129.1	11175.5	10979.0	10625.2
25°	13044.7	12876.7	12794.5	12437.1	12219.1	12029.7	12147.6	12372.8	12437.1	12194.1	11622.3
27.5°	14785.2	14795.9	14717.3	14288.4	13927.4	13580.8	13520.0	13755.9	13823.8	13548.6	12841.0
30°	17226.1	16972.4	16822.3	16307.7	15793.0	15307.0	15056.8	15153.3	15171.2	14842.4	14020.4
32.5°	19331.2	19266.8	18945.2	18494.9	17833.7	17072.5	16654.3	16500.6	16472.1	16003.9	15028.2
35°	21729.2	21693.5	21354.0	20817.9	20103.1	19045.3	18291.2	17851.6	17815.8	17158.2	16025.3
37.5°	24166.6	24166.6	23834.3	23248.1	22508.3	21186.0	20038.8	19341.9	19227.5	18369.8	17040.3
40°	26110.8	25992.9	26053.6	25807.0	24960.0	23555.5	21979.4	20968.0	20814.3	19785.0	18119.6
42.5°	27215.2	27175.8	27540.4	27815.6	27468.9	26346.7	24116.6	22729.9	22515.5	21343.3	19363.3
45°	27461.8	27418.9	28069.3	29077.2	29563.2	29102.2	26439.6	24584.8	24323.9	22973.0	20696.4
47.5°	26893.5	26807.7	27762.0	29352.3	30910.6	31721.8	28955.6	26596.9	26218.0	24559.8	22065.2
50°	25185.2	25103.0	26546.8	28659.0	31364.4	33501.6	31686.1	28730.5	28151.5	26260.9	23448.3
52.5°	21471.9	21511.2	23773.5	26675.5	30767.6	34609.5	34037.7	30978.5	30281.6	28001.4	24745.6
55°	16725.8	16811.6	19592.1	22787.1	28380.2	34441.6	35642.4	33294.3	32601.0	29638.3	26085.8
57.5°	11976.1	12354.9	14960.3	18123.2	23794.9	31779.0	35992.6	35495.9	34824.0	31425.2	27397.4
60°	7762.5	7830.4	10510.8	13698.7	18119.6	27047.2	35281.4	37164.9	36639.5	33247.9	28494.6
62.5°	4974.9	5021.3	6654.6	9581.6	13041.1	20010.2	32886.9	37890.4	37729.5	34452.3	29548.9
65°	3656.1	3620.3	4470.9	6332.9	8784.6	12340.6	28237.3	37540.1	37858.2	35206.4	30420.9
67.5°	3052.1	3002.1	3420.2	4385.2	6472.3	7008.4	20893.0	35263.6	36428.6	35120.6	31060.7
70°	2780.5	2737.6	2991.3	3255.8	5049.9	4692.5	10532.2	30656.8	32450.9	34144.9	30957.0
72.5°	2355.2	2280.1	2626.8	2891.3	3927.7	3598.9	4353.0	23548.3	25735.6	31017.8	29498.9
75°	1826.3	1776.2	2072.9	2544.6	2952.0	2809.1	2751.9	14299.1	16686.5	23987.9	25807.0
77.5°	1447.4	1379.5	1651.1	1983.5	2655.4	2119.3	2005.0	6157.8	8523.7	15314.1	19309.7
80°	1090.0	1029.3	1254.4	1568.9	2040.7	1597.5	1297.3	2512.4	3212.9	7758.9	9710.3
82.5°	775.5	721.9	875.6	1150.8	1372.4	1433.1	797.0	1408.1	1583.2	2991.3	2169.4
85°	496.8	464.6	586.1	721.9	872.0	922.1	486.0	736.2	807.7	1233.0	904.2
87.5°	271.6	221.6	314.5	335.9	403.8	368.1	232.3	268.0	289.5	446.7	382.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955913

CATALOG NUMBER: GALN-SB8D-722-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7590.9	7590.9	7590.9	7590.9	7590.9	7590.9	7590.9	7590.9	7590.9	7590.9	7590.9
2.5°	7619.5	7630.3	7666.0	7676.7	7701.7	7733.9	7755.3	7776.8	7776.8	7798.2	7798.2
5°	7723.2	7748.2	7823.2	7862.6	7926.9	7991.2	8030.5	8077.0	8105.6	8119.9	8127.0
7.5°	7923.3	7962.6	8069.8	8137.7	8248.5	8337.9	8398.6	8463.0	8477.3	8516.6	8502.3
10°	8194.9	8241.4	8362.9	8491.6	8623.8	8734.6	8791.8	8838.2	8856.1	8863.2	8845.4
12.5°	8505.9	8573.8	8731.0	8888.3	9027.6	9124.1	9138.4	9127.7	9077.7	9034.8	9034.8
15°	8888.3	8949.0	9124.1	9295.7	9431.5	9449.4	9360.0	9302.8	9242.1	9231.4	9231.4
17.5°	9345.7	9377.9	9538.7	9706.7	9717.4	9656.6	9524.4	9470.8	9413.6	9374.3	9377.9
20°	9878.2	9867.5	9981.9	10053.3	9978.3	9792.5	9592.3	9503.0	9445.8	9399.3	9402.9
22.5°	10514.4	10432.2	10417.9	10400.0	10199.9	9810.3	9538.7	9424.3	9335.0	9270.7	9292.1
25°	11440.0	11125.5	10907.5	10786.0	10335.7	9713.8	9367.2	9113.4	8945.4	8834.7	8877.5
27.5°	12598.0	12069.0	11518.6	11222.0	10335.7	9517.3	8952.6	8541.6	8266.4	8152.0	8209.2
30°	13702.3	13148.3	12337.1	11747.4	10310.7	9195.6	8284.3	7712.5	7390.8	7276.4	7344.3
32.5°	14645.8	14041.8	13205.5	12322.8	10249.9	8673.8	7455.1	6822.6	6511.6	6375.8	6443.7
35°	15521.4	14878.1	14077.5	12955.3	10089.1	7909.0	6543.8	6061.3	5714.6	5496.6	5568.1
37.5°	16418.4	15653.6	14903.1	13527.2	9799.6	7015.5	5843.3	5432.3	5024.9	4731.8	4810.5
40°	17394.1	16479.2	15785.9	13866.7	9324.3	6165.0	5300.1	4924.8	4492.4	4181.4	4242.2
42.5°	18534.2	17469.2	16768.7	14041.8	8673.8	5561.0	4946.3	4578.2	4170.7	3917.0	3967.0
45°	19724.3	18559.2	17665.7	14038.2	7948.3	5278.6	4831.9	4467.4	4017.1	3752.6	3795.5
47.5°	20971.6	19699.3	18441.3	13809.5	7319.3	5317.9	4767.6	4227.9	3731.1	3473.8	3509.6
50°	22222.4	20946.6	19191.8	13380.6	7051.3	5232.2	4528.1	3892.0	3305.8	3073.5	3087.8
52.5°	23462.6	22272.5	19838.7	12769.5	6779.7	4914.1	4220.8	3455.9	3130.7	2969.9	2969.9
55°	24709.9	23584.1	20542.7	11879.6	6100.6	4542.4	3706.1	3291.6	2991.3	2844.8	2830.5
57.5°	25960.7	25099.4	21211.0	10989.7	5246.5	4085.0	3423.8	3091.4	2852.0	2726.9	2705.4
60°	27261.6	26832.8	21900.8	10171.3	4403.0	3498.8	3216.5	2930.6	2687.6	2548.2	2537.5
62.5°	28601.8	28741.2	22440.4	9117.0	3627.5	3141.4	3030.7	2737.6	2501.7	2369.5	2365.9
65°	29952.8	30581.8	22794.3	7655.3	2941.3	2801.9	2830.5	2526.7	2287.3	2172.9	2169.4
67.5°	30971.3	31907.7	22694.2	5793.3	2412.4	2480.3	2580.3	2305.2	2080.0	1990.7	1994.2
70°	31085.7	31750.4	21707.8	3967.0	2019.2	2165.8	2301.6	2087.2	1854.8	1790.5	1794.1
72.5°	29563.2	29606.1	18959.5	2591.1	1708.3	1901.3	2008.5	1865.6	1640.4	1576.1	1572.5
75°	25571.2	24484.7	13920.3	1708.3	1429.6	1633.3	1733.3	1633.3	1415.3	1429.6	1379.5
77.5°	19374.0	17340.5	8452.2	1215.1	1193.7	1372.4	1508.2	1436.7	1250.9	1404.5	1236.6
80°	9981.9	9381.5	3770.5	907.8	943.5	1097.2	1240.1	1147.2	990.0	943.5	861.3
82.5°	2287.3	2659.0	1486.7	650.4	682.6	789.8	947.1	861.3	711.2	600.4	593.3
85°	800.6	875.6	657.6	407.4	400.3	493.2	643.3	575.4	482.5	386.0	407.4
87.5°	253.7	332.4	246.6	164.4	171.5	221.6	296.6	271.6	225.2	146.5	153.7
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)