

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: P953790

Luminaire Tested: **GALN-SB7B-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37833 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 256.7
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



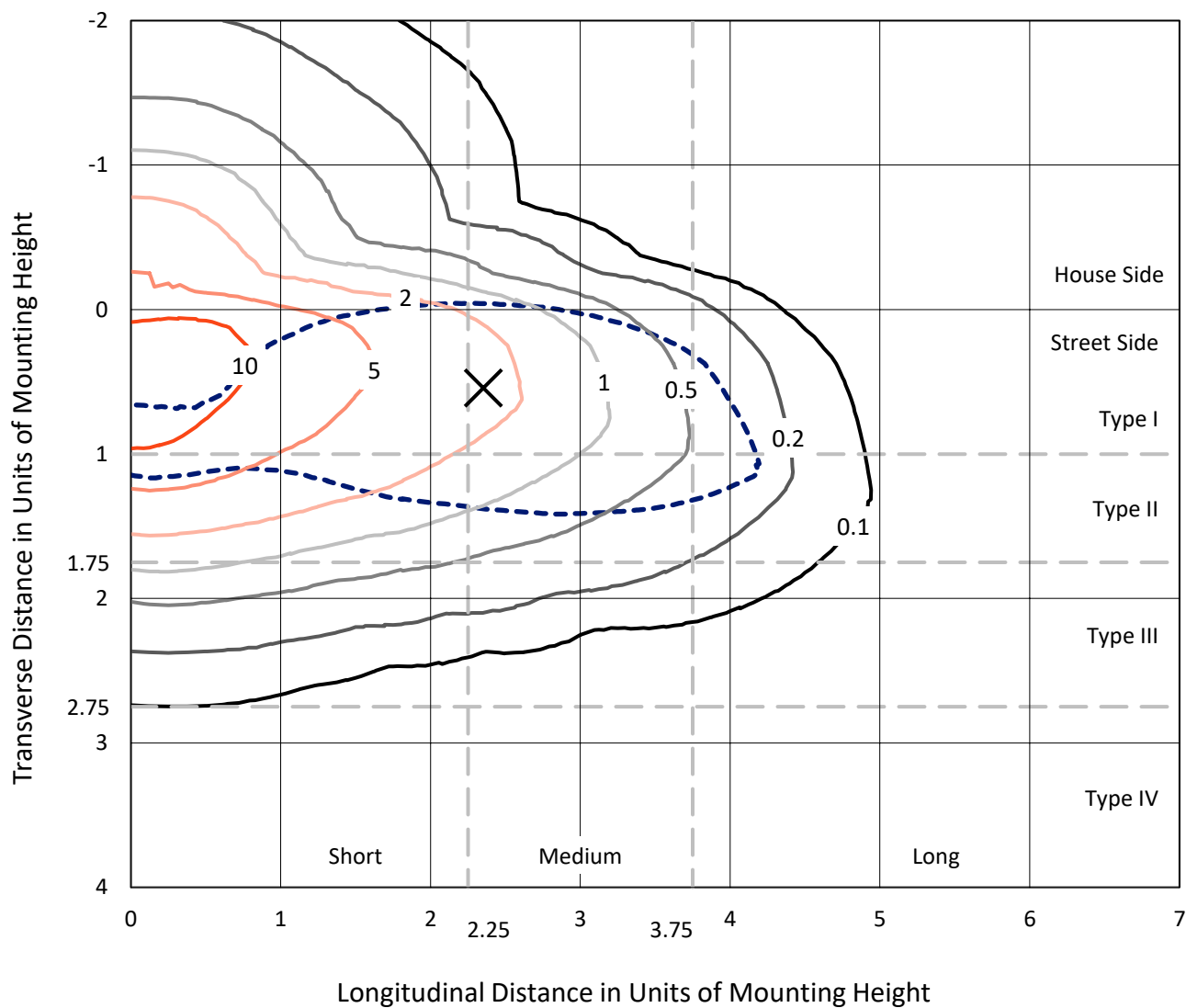
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Iso-Footcandle Lines of Horizontal Illumination

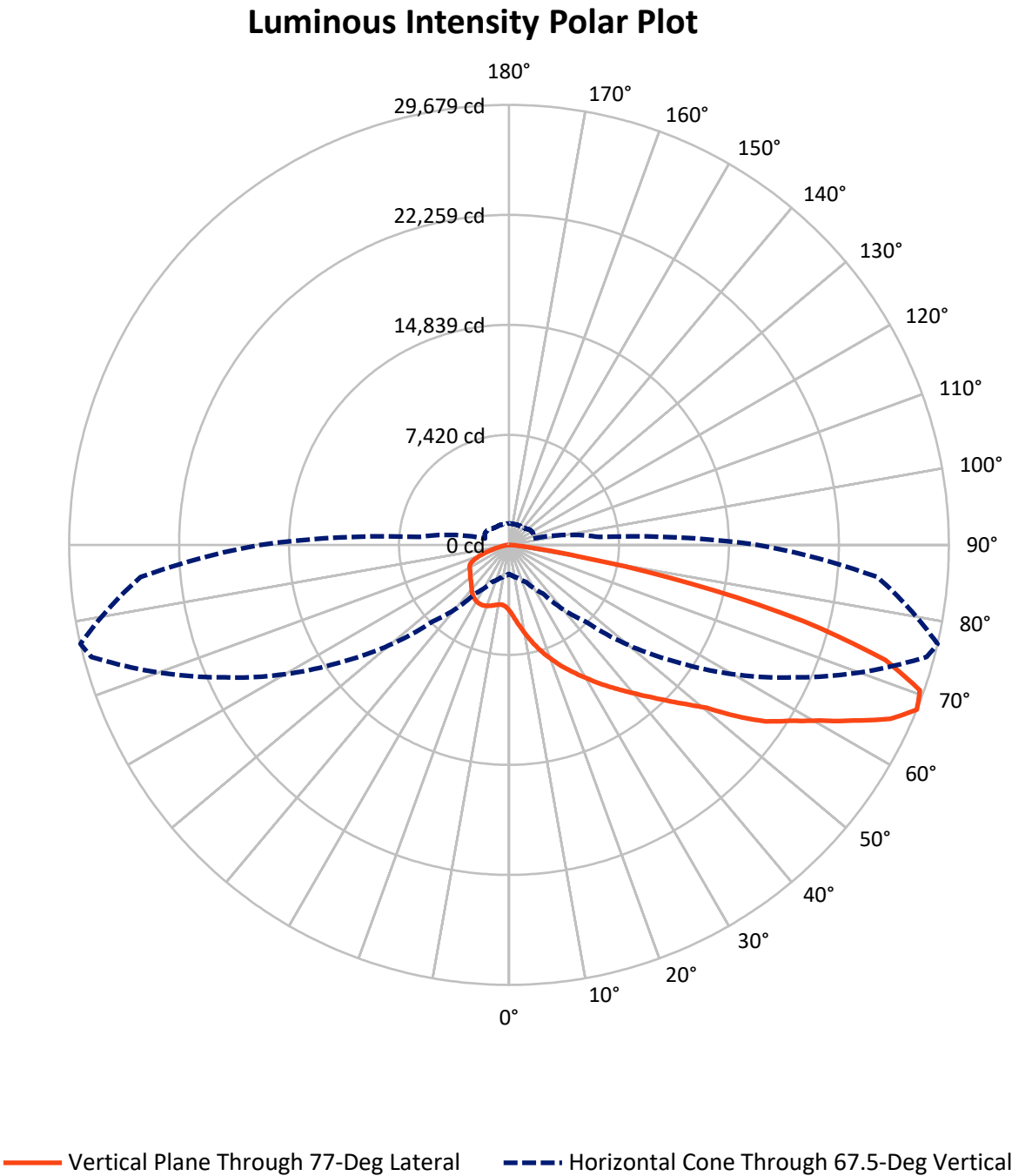
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7156.5	0.0	7156.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	30676.5	0.0	30676.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	37833.0	0.0	37833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.8	1.3
10°-20°	1709.4	4.5
20°-30°	3227.4	8.5
30°-40°	5199.3	13.7
40°-50°	7111.8	18.8
50°-60°	8022.1	21.2
60°-70°	7487.6	19.8
70°-80°	4104.5	10.8
80°-90°	495.1	1.3
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°	37833.0	100.0
0°-180°	37833.0	100.0

Coefficient of Utilization



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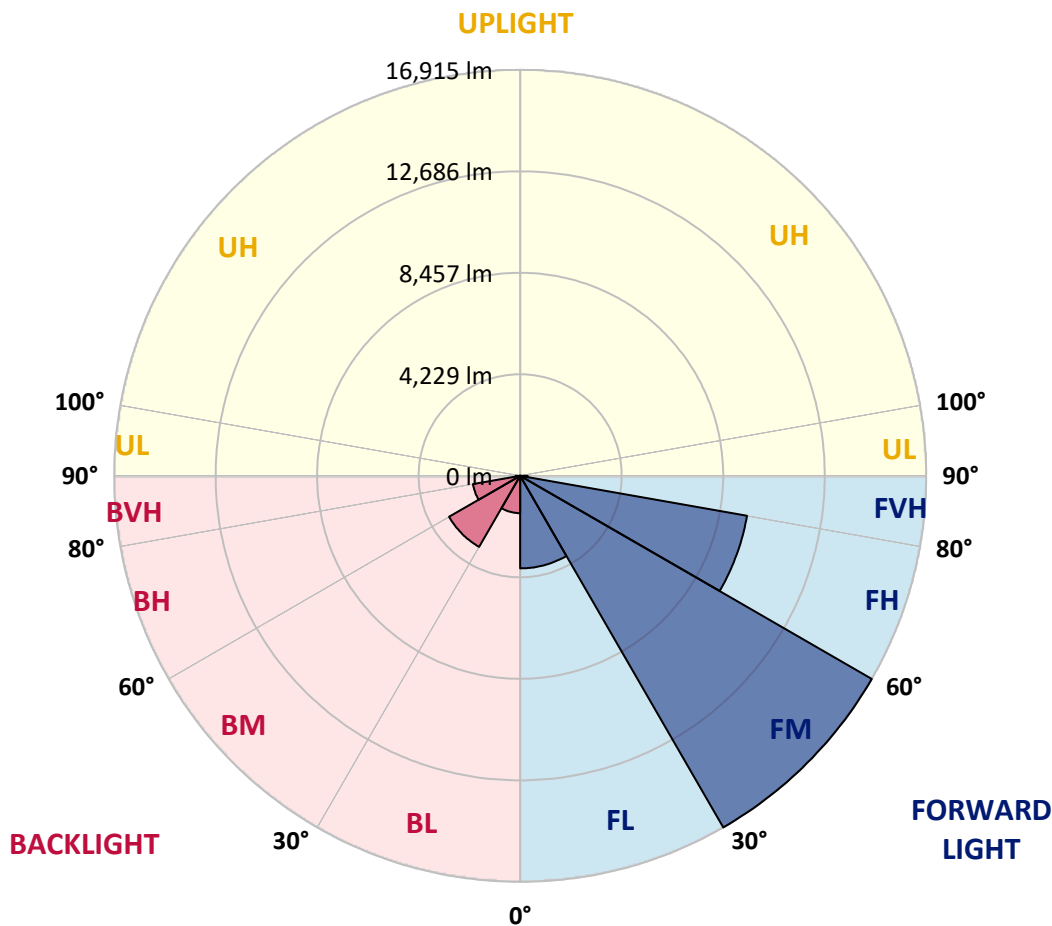
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3856.6	10.2			
FM	(30°-60°)	16914.7	44.7			
FH	(60°-80°)	9595.6	25.4			G4/12000
FVH	(80°-90°)	309.6	0.8			G3/500
BL	(0°-30°)	1556.0	4.1	B3/2500		
BM	(30°-60°)	3418.5	9.0	B3/5000		
BH	(60°-80°)	1996.5	5.3	B3/2500		G3/2500
BVH	(80°-90°)	185.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4439.0	4439.0	4439.0	4439.0	4439.0	4439.0	4439.0	4439.0	4439.0	4439.0	4439.0
2.5°	5558.0	5597.1	5548.2	5548.2	5384.2	5298.3	5134.2	5009.2	4784.7	4745.6	4597.2
5°	6569.6	6618.4	6550.1	6520.8	6327.5	6149.7	5874.4	5602.9	5202.6	5161.6	4812.0
7.5°	7352.7	7415.2	7354.7	7323.4	7151.6	6952.4	6630.2	6251.3	5686.9	5606.8	5101.0
10°	7991.3	8001.1	7981.6	7993.3	7858.5	7694.5	7364.5	6923.1	6218.1	6108.7	5450.6
12.5°	8352.6	8397.6	8436.6	8506.9	8483.5	8381.9	8085.1	7557.8	6780.5	6639.9	5831.4
15°	8522.5	8600.7	8688.5	8850.6	8981.5	9006.9	8780.3	8239.4	7352.7	7182.8	6216.1
17.5°	8583.1	8657.3	8795.9	9030.3	9311.5	9501.0	9399.4	8901.4	7919.1	7723.8	6620.4
20°	8889.7	8911.2	8995.1	9217.8	9522.4	9836.9	9913.0	9538.1	8479.6	8258.9	7038.3
22.5°	9545.9	9502.9	9526.3	9627.9	9846.6	10151.3	10325.1	10100.5	9055.7	8801.8	7460.2
25°	10629.7	10504.8	10379.8	10262.6	10373.9	10545.8	10743.0	10662.9	9659.1	9336.9	7885.9
27.5°	11998.7	11846.4	11571.0	11186.3	11051.6	11112.1	11200.0	11184.4	10217.7	9891.5	8325.3
30°	13346.3	13168.5	12840.4	12283.9	11928.4	11768.3	11701.9	11657.0	10825.0	10477.4	8768.6
32.5°	14422.3	14281.7	13959.5	13336.5	12820.9	12547.5	12326.8	12166.7	11459.7	11112.1	9237.3
35°	15363.6	15232.8	14863.7	14184.1	13623.6	13332.6	13043.6	12701.8	12119.8	11768.3	9741.2
37.5°	16222.9	16092.1	15586.3	14879.3	14314.9	14113.8	13856.0	13275.9	12781.9	12449.9	10274.3
40°	16765.8	16736.5	16263.9	15463.2	14877.3	14777.7	14691.8	13941.9	13516.2	13207.6	10860.2
42.5°	16904.5	16968.9	16594.0	15935.8	15377.3	15297.2	15498.4	14695.7	14340.3	14045.4	11524.2
45°	16570.5	16756.1	16510.0	16062.8	15732.7	15689.8	16213.1	15519.9	15252.3	14982.8	12324.9
47.5°	15724.9	16039.3	15937.8	15875.3	15828.4	16013.9	16842.0	16394.8	16285.4	16051.0	13238.8
50°	14018.1	14613.7	14791.4	15185.9	15639.0	16265.9	17414.2	17349.7	17492.3	17256.0	14352.0
52.5°	11067.2	11887.4	12918.6	13906.7	15057.0	16181.9	18043.0	18720.7	19322.2	19193.3	16121.4
55°	9135.8	9504.9	10297.7	12110.1	13928.2	15828.4	18326.2	19828.0	21138.4	21023.2	17463.0
57.5°	7651.5	7981.6	8469.8	9983.3	12221.4	15025.8	18502.0	20503.7	22382.4	22370.7	18787.1
60°	6059.9	6409.5	6909.4	7981.6	10227.4	13639.2	18462.9	21273.2	23970.1	24067.8	20402.2
62.5°	4263.2	4647.9	5202.6	6202.5	8190.5	11842.5	17666.1	21829.7	25839.1	26104.7	22345.3
65°	2802.4	3056.3	3474.2	4337.4	6102.9	9532.2	16144.8	21902.0	27838.9	28288.0	24169.3
67.5°	1964.6	2062.3	2308.4	2777.1	4023.0	7309.8	13721.2	21154.0	29172.7	29678.5	24960.3
70°	1533.0	1581.9	1706.9	1894.3	2527.1	4915.5	10514.5	19208.9	28887.6	29414.9	24134.2
72.5°	1324.1	1370.9	1417.8	1441.3	1695.1	3034.8	7122.3	16060.8	26202.3	26559.7	20984.1
75°	1201.0	1212.8	1251.8	1244.0	1292.8	1968.5	4110.9	11701.9	20673.6	20550.6	15490.6
77.5°	1009.7	1025.3	1089.7	1080.0	1148.3	1345.6	2134.5	7551.9	13402.9	12567.0	8622.1
80°	855.4	863.2	933.5	921.8	997.9	974.5	1089.7	3849.2	5684.9	4815.9	2486.1
82.5°	296.8	367.1	712.8	734.3	761.6	589.8	628.8	1570.1	1736.1	1329.9	521.4
85°	144.5	154.3	363.2	515.6	513.6	296.8	306.6	560.5	546.8	429.6	173.8
87.5°	23.4	29.3	43.0	201.2	160.1	78.1	105.5	109.4	113.3	97.6	39.1
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°	4439.0	4439.0	4439.0	4439.0	4439.0	4439.0	4439.0	4439.0	4439.0	4439.0	4439.0
2.5°	4487.8	4390.2	4185.1	3995.7	3847.3	3704.7	3624.6	3556.3	3517.2	3509.4	3509.4
5°	4608.9	4407.7	4034.7	3720.3	3515.3	3362.9	3282.9	3232.1	3206.7	3191.1	3189.1
7.5°	4782.7	4487.8	3956.6	3599.2	3384.4	3275.0	3234.0	3226.2	3224.3	3226.2	3232.1
10°	5022.9	4618.7	3948.8	3569.9	3390.3	3329.7	3327.8	3329.7	3337.5	3339.5	3341.4
12.5°	5282.6	4753.4	3980.1	3595.3	3464.5	3431.3	3425.4	3423.5	3429.3	3433.2	3435.2
15°	5565.8	4931.1	4032.8	3650.0	3546.5	3511.3	3505.5	3493.8	3491.8	3489.9	3487.9
17.5°	5856.8	5106.9	4091.4	3708.6	3599.2	3550.4	3528.9	3501.6	3480.1	3474.2	3480.1
20°	6151.7	5280.7	4132.4	3737.9	3603.1	3534.8	3491.8	3445.0	3407.8	3386.4	3394.2
22.5°	6466.1	5462.3	4157.8	3730.1	3568.0	3474.2	3396.1	3341.4	3284.8	3247.7	3249.7
25°	6772.7	5620.5	4155.8	3689.1	3499.6	3380.5	3280.9	3210.6	3132.5	3093.4	3093.4
27.5°	7067.6	5763.1	4107.0	3616.8	3402.0	3269.2	3150.1	3066.1	2989.9	2952.8	2950.9
30°	7372.3	5882.2	4030.8	3511.3	3286.8	3140.3	3009.4	2937.2	2868.8	2833.7	2831.7
32.5°	7675.0	5991.6	3923.4	3380.5	3154.0	3013.4	2884.5	2818.1	2777.1	2777.1	2779.0
35°	7995.3	6067.7	3780.9	3228.2	3013.4	2878.6	2777.1	2738.0	2734.1	2710.7	2704.8
37.5°	8333.1	6116.5	3607.0	3071.9	2874.7	2747.8	2716.5	2669.6	2630.6	2579.8	2572.0
40°	8688.5	6165.4	3398.1	2909.9	2728.2	2657.9	2644.3	2581.8	2470.4	2345.5	2327.9
42.5°	9120.1	6198.6	3181.3	2747.8	2573.9	2550.5	2570.0	2462.6	2284.9	2191.2	2193.1
45°	9620.1	6253.2	2982.1	2587.6	2415.8	2415.8	2497.8	2357.2	2210.7	2152.1	2161.9
47.5°	10268.5	6380.2	2796.6	2411.9	2269.3	2308.4	2337.6	2230.2	2148.2	2076.0	2074.0
50°	11205.9	6684.8	2605.2	2234.1	2158.0	2236.1	2195.1	2132.6	2036.9	1978.3	1972.4
52.5°	12369.8	6864.5	2435.3	2074.0	2062.3	2140.4	2081.8	2023.2	1951.0	1872.8	1857.2
55°	13162.7	6897.7	2292.7	1956.8	1997.8	1990.0	1968.5	1915.8	1876.8	1773.3	1775.2
57.5°	14049.3	6964.1	2175.6	1886.5	1956.8	1870.9	1863.1	1818.2	1767.4	1697.1	1673.7
60°	15109.7	7067.6	2074.0	1859.2	1921.7	1792.8	1753.7	1736.1	1685.4	1650.2	1660.0
62.5°	16265.9	7161.4	1970.5	1863.1	1880.7	1716.6	1658.0	1652.2	1620.9	1609.2	1609.2
65°	17054.8	6905.5	1841.6	1859.2	1816.2	1638.5	1564.3	1562.3	1536.9	1533.0	1531.1
67.5°	16779.5	6095.1	1667.8	1804.5	1749.8	1560.4	1478.4	1470.5	1437.3	1439.3	1439.3
70°	15400.7	4938.9	1427.6	1669.7	1667.8	1490.1	1388.5	1363.1	1318.2	1326.0	1333.8
72.5°	12815.1	3659.8	1105.4	1445.2	1536.9	1425.6	1285.0	1244.0	1187.4	1195.2	1193.2
75°	9254.9	2488.0	804.6	1099.5	1337.7	1349.5	1183.5	1113.2	1044.8	1056.5	1060.4
77.5°	4735.8	1410.0	591.7	757.7	1050.7	1226.4	1091.7	997.9	982.3	1091.7	1076.1
80°	1544.8	707.0	410.1	531.2	689.4	1003.8	956.9	849.5	845.6	871.0	748.0
82.5°	460.9	298.8	263.6	349.6	380.8	769.5	826.1	642.5	552.7	582.0	601.5
85°	158.2	144.5	150.4	173.8	181.6	451.1	578.1	425.7	402.3	443.3	437.5
87.5°	37.1	50.8	43.0	39.1	39.1	109.4	224.6	177.7	246.1	164.0	158.2
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)