

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: P533313

Luminaire Tested: **GALN-SA8D-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31198 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

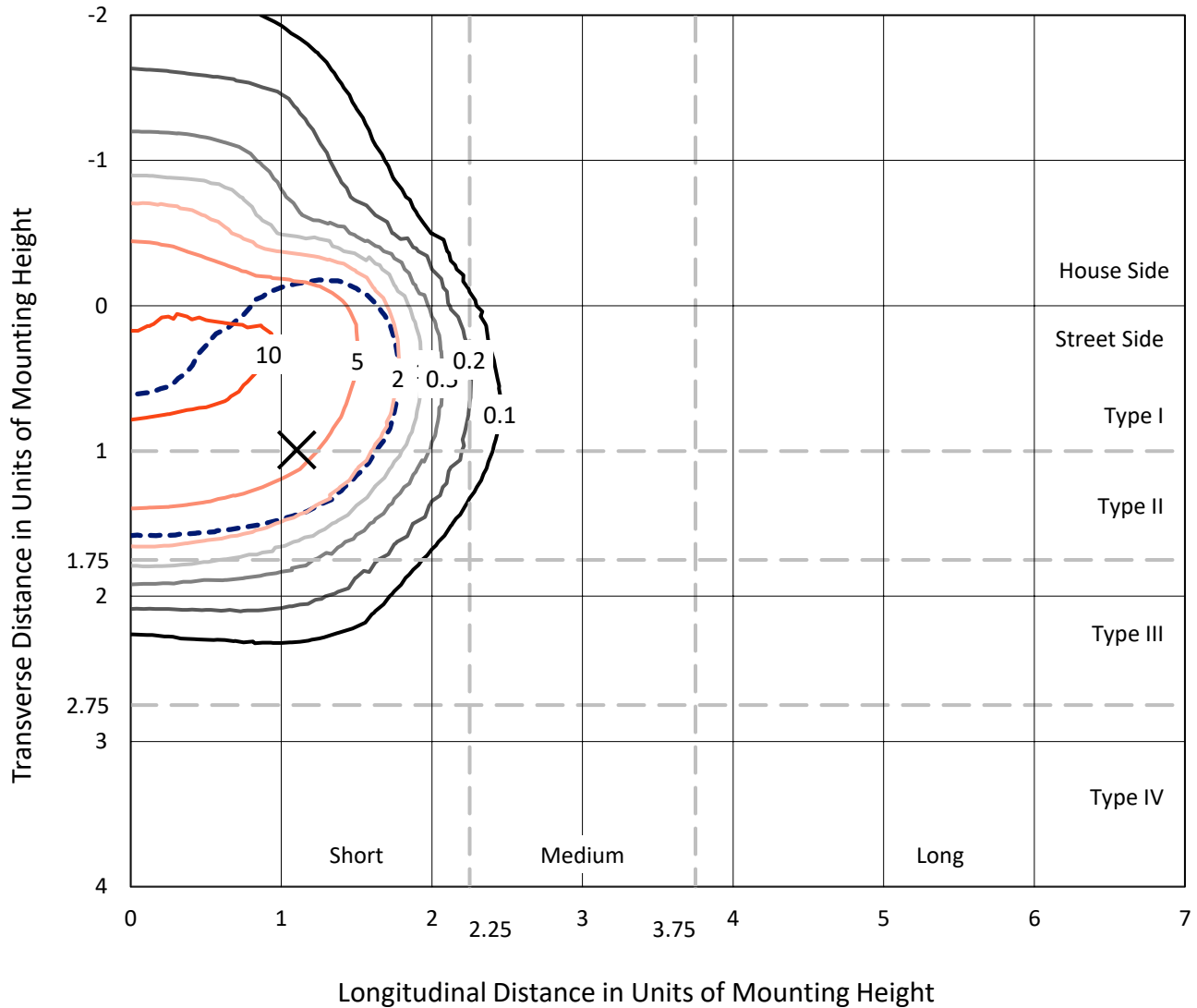
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

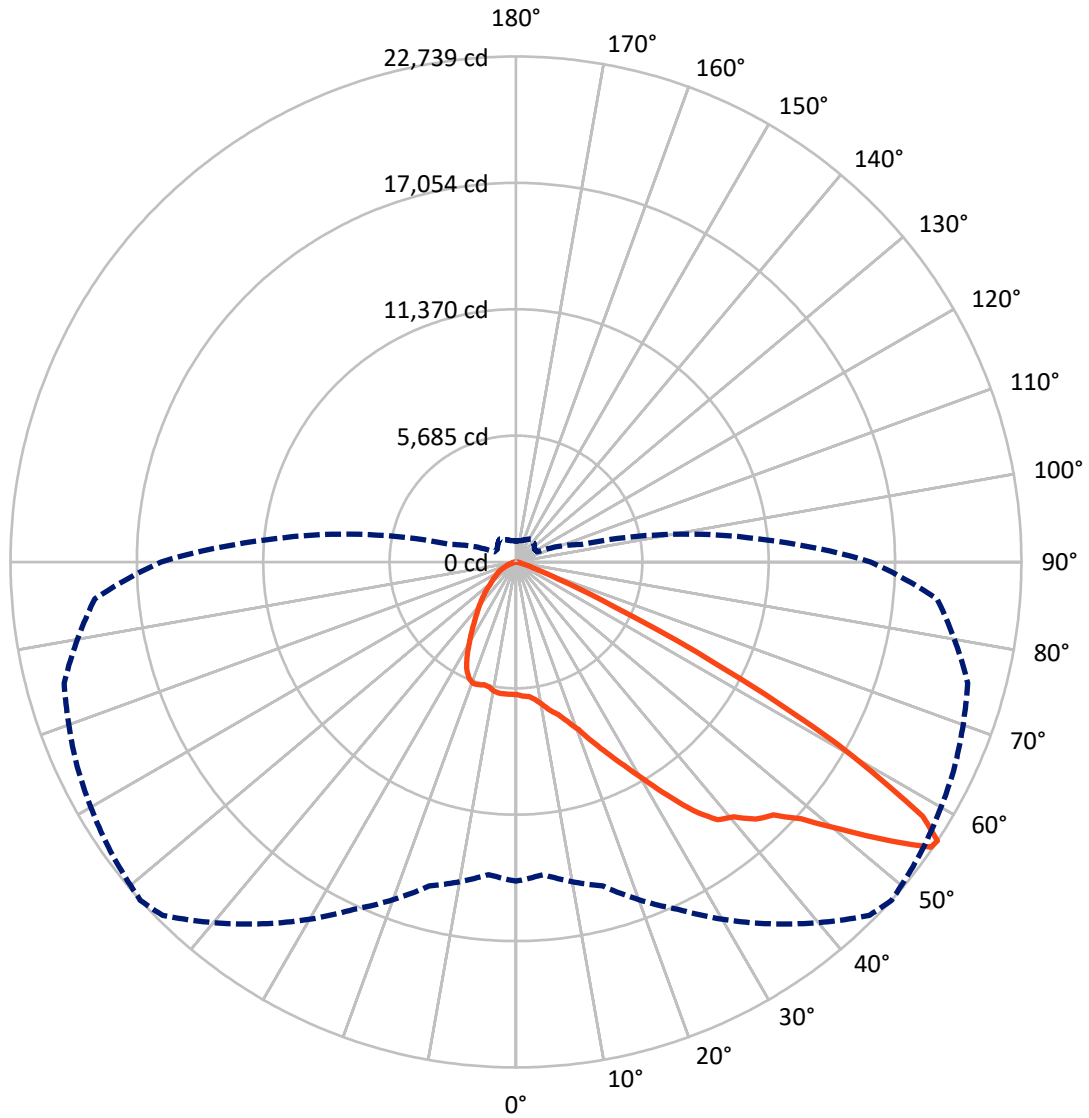
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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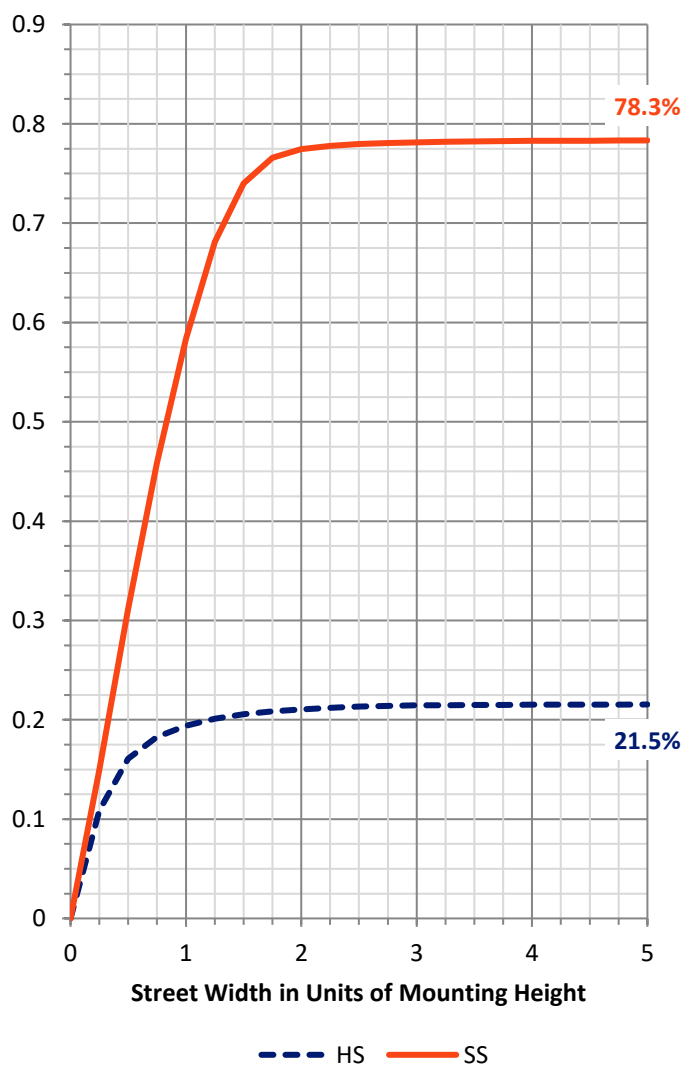
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6785.0	0.0	6785.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	24413.0	0.0	24413.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	31198.0	0.0	31198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.4	1.9
10°-20°	1855.0	5.9
20°-30°	3364.7	10.8
30°-40°	5285.2	16.9
40°-50°	7710.2	24.7
50°-60°	9289.3	29.8
60°-70°	2719.8	8.7
70°-80°	345.0	1.1
80°-90°	48.4	0.2
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°	31198.0	100.0
0°-180°	31198.0	100.0

Coefficient of Utilization

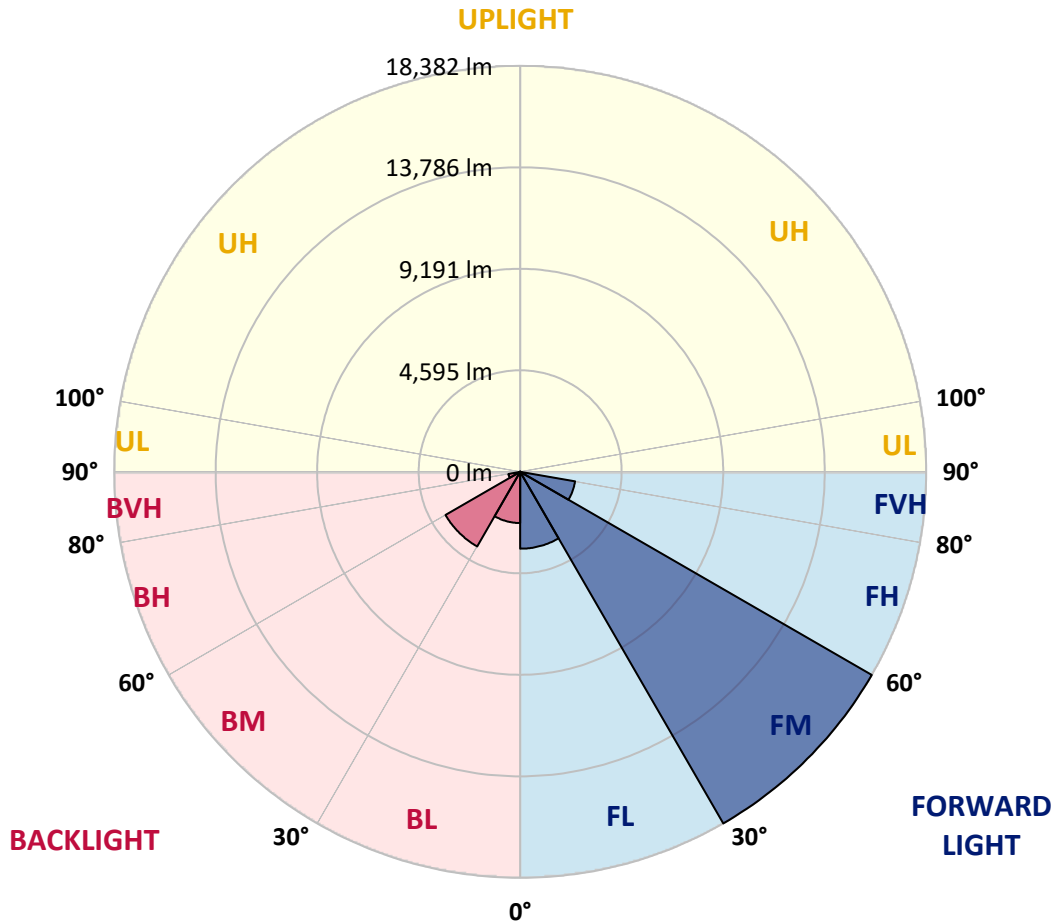


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3481.1	11.2			
FM (30°-60°)	18381.9	58.9			
FH (60°-80°)	2525.7	8.1			G2/5000
FVH (80°-90°)	24.3	0.1			G1/100
BL (0°-30°)	2319.1	7.4	B3/2500		
BM (30°-60°)	3902.7	12.5	B3/5000		
BH (60°-80°)	539.1	1.7	B2/1000		G2/1000
BVH (80°-90°)	24.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	5958.8	5958.8	5958.8	5958.8	5958.8	5958.8	5958.8	5958.8	5958.8	5958.8	5958.8
2.5°	6066.8	6038.4	6038.4	5992.9	6044.0	6021.3	6038.4	5981.6	6038.4	5953.2	6021.3
5°	6095.2	6100.8	6078.1	6106.5	6106.5	6140.6	6083.8	6134.9	6163.3	6100.8	6072.4
7.5°	6242.9	6254.2	6248.5	6225.8	6271.3	6265.6	6259.9	6220.1	6231.5	6208.8	6174.7
10°	6532.6	6526.9	6555.3	6498.5	6464.4	6504.2	6515.5	6453.0	6407.6	6390.5	6282.6
12.5°	6952.9	6884.8	6845.0	6788.2	6805.2	6748.4	6850.7	6742.7	6720.0	6617.8	6509.8
15°	7293.7	7282.4	7288.1	7197.2	7094.9	7117.7	7117.7	7060.8	7026.8	6901.8	6748.4
17.5°	7992.4	7753.9	7805.0	7691.4	7606.2	7600.5	7549.4	7560.7	7469.8	7208.5	6975.6
20°	8537.8	8435.5	8356.0	8162.9	8032.2	8072.0	8049.3	7992.4	7964.0	7623.2	7293.7
22.5°	9026.3	9060.4	8929.7	8878.6	8696.8	8713.9	8759.3	8708.2	8492.3	8140.1	7651.6
25°	9713.6	9673.9	9497.8	9435.3	9264.9	9327.4	9503.5	9463.7	9327.4	8691.1	7930.0
27.5°	10525.9	10389.6	10423.7	10139.7	9974.9	10151.0	10361.2	10560.0	10173.8	9338.7	8259.4
30°	11099.7	10957.7	10946.3	10934.9	10895.2	11099.7	11343.9	11525.7	11213.3	9986.3	8804.8
32.5°	11383.7	11417.8	11514.3	11480.3	11826.8	12247.1	12502.8	12764.1	12372.1	11042.9	9526.2
35°	12139.2	11923.3	12139.2	12161.9	12519.8	13411.6	13735.4	14360.3	14263.7	12536.8	10406.7
37.5°	12582.3	12565.2	12593.6	12809.5	13156.0	14258.0	14718.1	15201.0	15019.2	13434.4	11503.0
40°	13315.1	13360.5	13354.8	13519.6	13900.2	14894.2	15081.7	15473.6	15490.7	14678.4	13116.2
42.5°	14490.9	14309.1	14189.9	14360.3	14894.2	15445.2	15820.2	15740.6	16303.0	16189.4	15189.6
45°	15547.5	15655.4	15479.3	15763.4	15956.5	16251.9	16240.5	16410.9	17126.7	17666.3	16751.8
47.5°	16535.9	16604.1	16689.3	16882.4	17302.8	17348.2	17251.6	17177.8	18166.2	18722.9	17961.7
50°	17126.7	17189.2	17586.8	17933.3	18717.2	18819.5	18876.3	18688.8	19359.1	19421.6	19103.5
52.5°	16967.6	17035.8	17592.5	18734.2	19984.0	20921.2	20750.8	20432.7	20393.0	20637.2	20160.1
55°	15558.9	15496.4	16263.2	18041.2	20381.6	22631.1	22653.8	22318.6	21676.7	21512.0	20001.0
56°	14360.3	14116.0	15093.1	17240.3	19870.3	22483.4	22739.0	22381.1	21779.0	21040.5	19018.3
57.5°	11764.3	11997.2	12968.6	14746.5	18103.7	21421.1	21568.8	21483.6	21029.2	19790.8	16734.7
60°	6487.1	6896.1	7753.9	9929.5	12889.0	16439.3	16558.6	17251.6	17336.8	15155.5	11514.3
62.5°	2755.0	2709.6	3601.4	5203.3	7339.2	9923.8	10145.4	10855.4	10986.1	8736.6	5777.1
65°	1119.1	1181.5	1630.3	2618.7	3879.8	4521.7	4834.1	5067.0	5498.7	3607.1	2130.2
67.5°	738.5	732.8	960.0	1494.0	2090.4	2016.6	2016.6	2130.2	1971.1	1471.2	920.2
70°	528.3	545.3	687.3	1033.8	1300.8	965.7	925.9	886.2	1005.4	971.4	744.1
72.5°	346.5	369.2	460.1	619.2	676.0	528.3	528.3	636.2	829.4	783.9	607.8
75°	227.2	232.9	284.0	357.9	335.1	272.7	301.1	426.0	602.1	579.4	431.7
77.5°	153.4	159.1	193.1	232.9	187.5	153.4	164.7	215.9	295.4	295.4	227.2
80°	56.8	62.5	79.5	73.8	85.2	107.9	119.3	147.7	176.1	176.1	153.4
82.5°	0.0	5.7	17.0	39.8	62.5	85.2	96.6	113.6	130.7	147.7	142.0
85°	0.0	5.7	17.0	28.4	45.4	51.1	56.8	39.8	34.1	34.1	28.4
87.5°	0.0	0.0	5.7	5.7	5.7	5.7	5.7	5.7	11.4	5.7	5.7
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°	5958.8	5958.8	5958.8	5958.8	5958.8	5958.8	5958.8	5958.8	5958.8	5958.8	5958.8
2.5°	5958.8	5953.2	5953.2	5936.1	5970.2	5953.2	5964.5	5958.8	5885.0	5941.8	5902.0
5°	6021.3	6061.1	5998.6	5987.2	5941.8	5958.8	5958.8	5902.0	5953.2	5947.5	5936.1
7.5°	6180.4	6112.2	6044.0	5975.9	5964.5	5947.5	5885.0	5862.3	5902.0	5856.6	5924.7
10°	6248.5	6259.9	6157.6	6066.8	5981.6	5862.3	5777.1	5725.9	5663.4	5731.6	5771.4
12.5°	6561.0	6447.4	6271.3	6129.2	5839.5	5720.3	5635.0	5612.3	5720.3	5743.0	5703.2
15°	6668.9	6651.9	6424.6	6106.5	5805.5	5663.4	5680.5	5635.0	5646.4	5589.6	5601.0
17.5°	6890.4	6697.3	6430.3	6032.7	5799.8	5765.7	5663.4	5481.7	5379.4	5334.0	5373.7
20°	7134.7	6947.2	6561.0	6061.1	5850.9	5760.0	5424.9	5203.3	4993.1	4879.5	4885.2
22.5°	7350.6	7117.7	6504.2	6072.4	5896.3	5521.4	5118.1	4680.7	4419.4	4243.3	4249.0
25°	7611.9	7282.4	6526.9	6095.2	5777.1	5140.8	4561.4	4135.4	3823.0	3703.7	3743.4
27.5°	7759.5	7384.6	6651.9	6146.3	5464.6	4601.2	3976.3	3578.7	3396.9	3340.1	3334.4
30°	8202.6	7611.9	6805.2	6044.0	4942.0	4021.8	3442.4	3198.1	3022.0	2970.9	2982.3
32.5°	8861.6	8026.5	7004.0	5777.1	4408.1	3504.9	3095.9	2914.1	2749.4	2652.8	2641.4
35°	9412.6	8736.6	7214.2	5362.4	3788.9	3107.2	2851.6	2624.4	2374.4	2266.5	2238.1
37.5°	10463.5	9537.5	7168.8	4737.5	3198.1	2811.8	2590.3	2312.0	2096.1	1948.4	1931.4
40°	11860.9	10474.8	6947.2	3976.3	2760.7	2550.5	2312.0	2045.0	1778.0	1653.0	1641.7
42.5°	13559.3	11622.3	6543.9	3203.8	2323.3	2289.2	2073.4	1766.6	1528.1	1437.2	1442.8
45°	14939.7	12605.0	6134.9	2573.3	1999.5	2033.6	1846.2	1556.5	1391.7	1317.9	1317.9
47.5°	16166.7	13269.6	5691.8	2124.5	1698.5	1778.0	1613.3	1442.8	1300.8	1244.0	1232.7
50°	17348.2	13945.6	5248.8	1721.2	1448.5	1528.1	1511.0	1374.7	1261.1	1192.9	1198.6
52.5°	18086.7	14053.5	4686.4	1408.8	1266.7	1357.6	1414.4	1289.5	1164.5	1124.7	1113.4
55°	17183.5	12661.8	3635.5	1158.8	1073.6	1192.9	1300.8	1158.8	1062.3	994.1	988.4
56°	15967.9	11321.2	3039.1	1067.9	1016.8	1147.5	1261.1	1107.7	999.8	960.0	931.6
57.5°	13519.6	9264.9	2243.8	948.6	943.0	1067.9	1198.6	1056.6	931.6	897.5	897.5
60°	8429.8	5214.7	1357.6	795.3	818.0	948.6	1079.3	943.0	829.4	829.4	846.4
62.5°	3840.0	2169.9	823.7	676.0	704.4	818.0	960.0	852.1	789.6	852.1	863.4
65°	1306.5	937.3	596.5	539.6	556.7	676.0	823.7	863.4	857.8	897.5	920.2
67.5°	732.8	602.1	499.9	448.8	437.4	499.9	676.0	863.4	829.4	812.3	823.7
70°	619.2	511.2	443.1	397.6	380.6	403.3	522.6	653.3	585.1	568.0	556.7
72.5°	499.9	426.0	386.3	357.9	306.7	261.3	238.6	249.9	278.3	295.4	323.8
75°	352.2	323.8	323.8	289.7	221.5	164.7	130.7	107.9	73.8	51.1	56.8
77.5°	198.8	198.8	204.5	176.1	142.0	107.9	79.5	56.8	28.4	11.4	5.7
80°	136.3	147.7	159.1	142.0	119.3	96.6	68.2	39.8	17.0	0.0	0.0
82.5°	136.3	153.4	164.7	142.0	119.3	90.9	68.2	39.8	17.0	5.7	0.0
85°	28.4	34.1	39.8	45.4	68.2	68.2	51.1	34.1	17.0	5.7	0.0
87.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	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)