

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: P382653

Luminaire Tested: **GLEON-SA0B-735-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0B-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52324.1 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

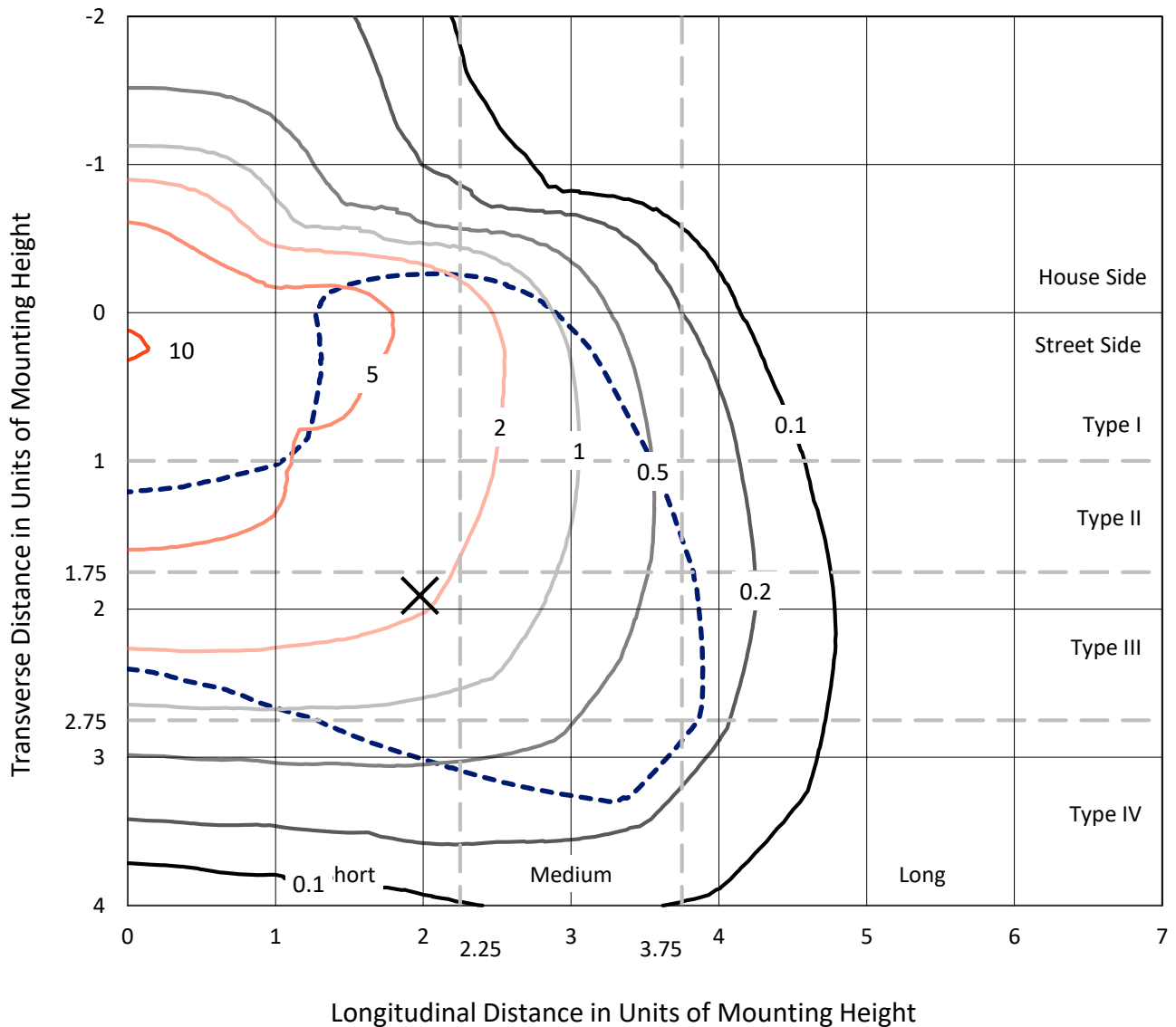
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

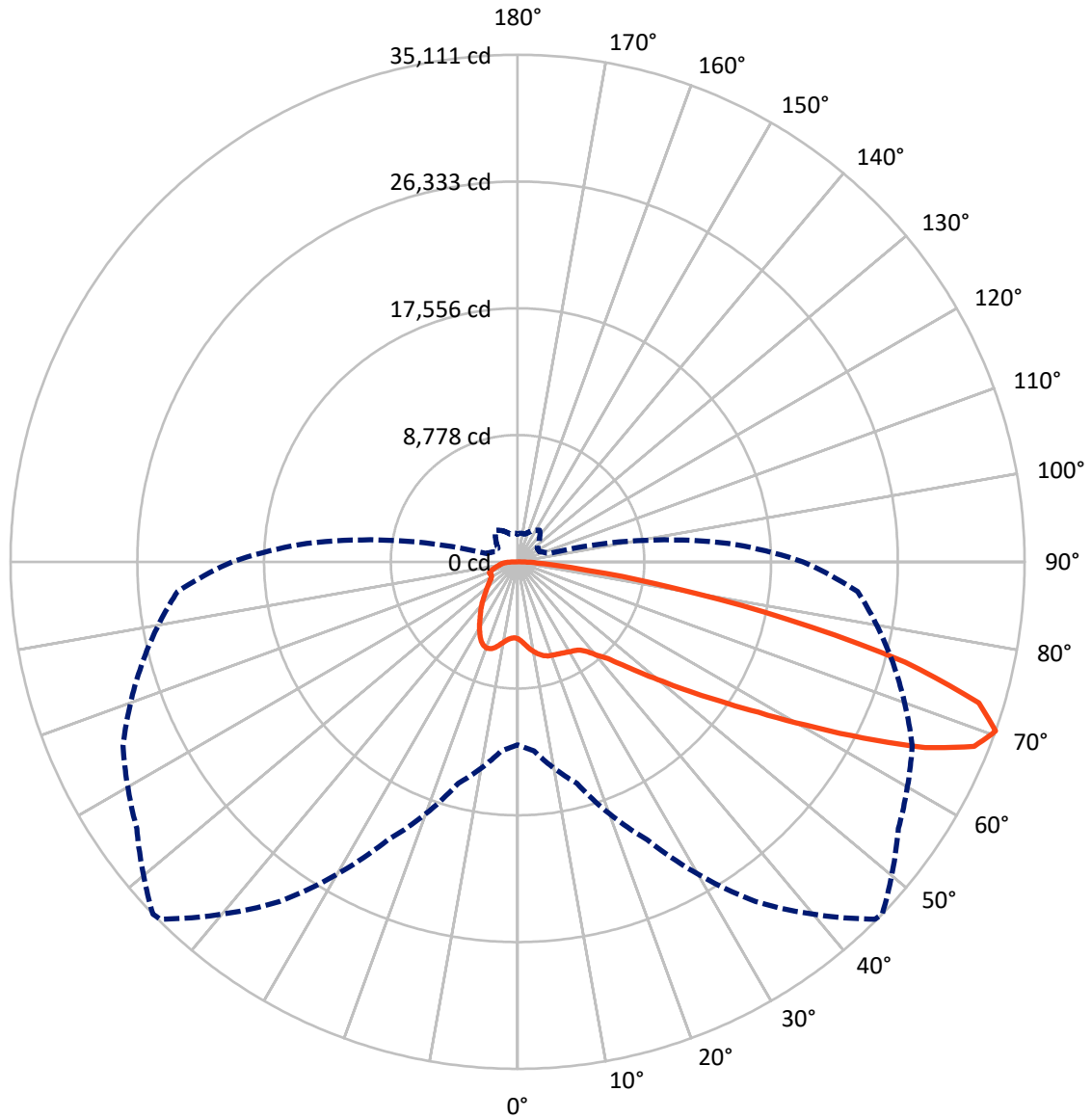
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11992.5	0.0	11992.5
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	40331.6	0.0	40331.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	52324.1	0.0	52324.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	543.4	1.0
10°-20°	1810.6	3.5
20°-30°	3018.9	5.8
30°-40°	4284.0	8.2
40°-50°	6301.6	12.0
50°-60°	10671.7	20.4
60°-70°	15148.2	29.0
70°-80°	9202.7	17.6
80°-90°	1343.0	2.6
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°	52324.1	100.0
0°-180°	52324.1	100.0

**Coefficient of Utilization**

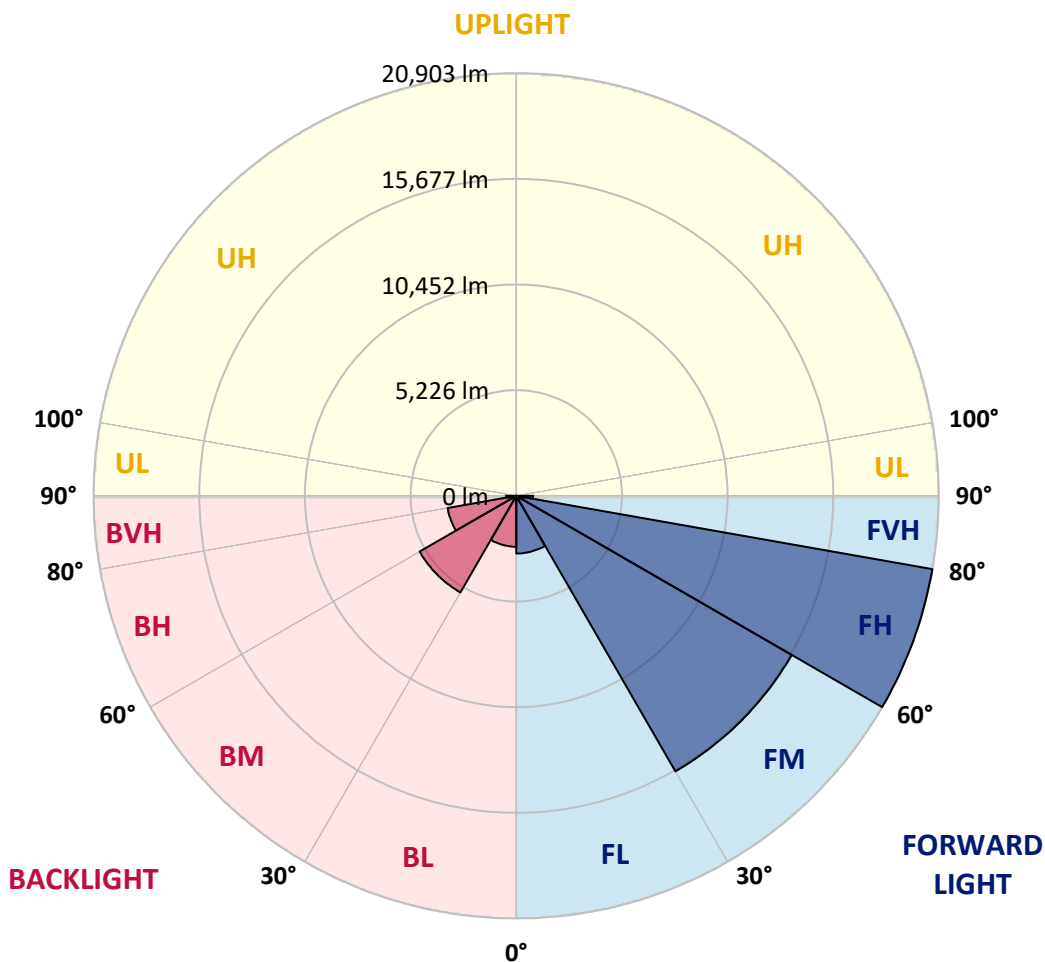


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2855.0	5.5			
FM (30°-60°)	15736.8	30.1			
FH (60°-80°)	20903.2	39.9			G5
FVH (80°-90°)	836.6	1.6			G5
BL (0°-30°)	2517.9	4.8	B4/5000		
BM (30°-60°)	5520.5	10.6	B4/8500		
BH (60°-80°)	3447.8	6.6	B4/5000		G4/5000
BVH (80°-90°)	506.4	1.0			G4/750
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°	35°	45°	46°	55°	65°	75°	85°
0°	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8
2.5°	5597.6	5601.2	5608.4	5590.4	5540.3	5525.9	5520.6	5468.7	5434.6	5384.5	5341.6
5°	6045.3	6048.8	6038.1	5988.0	5876.9	5794.6	5787.4	5669.2	5561.8	5447.2	5361.2
7.5°	6512.6	6518.0	6483.9	6389.1	6233.3	6090.1	6081.0	5919.9	5757.0	5583.3	5454.4
10°	6926.2	6904.8	6849.3	6716.7	6532.3	6356.9	6349.7	6181.4	5993.4	5783.8	5611.9
12.5°	7202.1	7184.1	7112.6	6951.4	6749.0	6587.8	6573.6	6417.7	6235.1	6005.9	5799.9
15°	7354.3	7366.8	7270.1	7087.4	6890.5	6754.4	6741.9	6630.8	6467.8	6236.9	6000.5
17.5°	7373.9	7384.7	7291.6	7110.7	6949.5	6856.5	6851.1	6777.7	6659.4	6437.5	6190.3
20°	7259.4	7266.5	7189.5	7040.9	6935.3	6906.6	6904.8	6872.6	6784.8	6587.8	6347.9
22.5°	7092.8	7098.2	7042.7	6935.3	6899.4	6944.2	6956.7	6944.2	6881.5	6697.1	6471.5
25°	7051.6	7048.1	6990.7	6881.5	6912.0	7006.8	7022.9	7028.3	6985.4	6824.2	6629.0
27.5°	7250.4	7237.8	7128.7	6953.2	6972.8	7087.4	7108.9	7160.9	7134.0	6992.6	6808.1
30°	7825.2	7803.7	7579.9	7225.4	7128.7	7187.7	7214.6	7296.9	7302.3	7184.1	7046.2
32.5°	8795.8	8768.8	8367.7	7733.9	7391.8	7289.8	7314.9	7438.4	7504.6	7413.3	7264.7
35°	10022.3	9991.9	9465.5	8598.7	7832.4	7485.0	7502.9	7601.3	7733.9	7605.0	7407.9
37.5°	11300.9	11227.5	10720.7	9615.9	8532.5	7902.2	7902.2	7914.7	7977.4	7708.8	7576.3
40°	12572.3	12498.9	12040.4	10812.0	9438.6	8559.3	8518.2	8240.7	8190.4	7959.5	7914.7
42.5°	13754.1	13732.6	13462.2	12164.0	10502.3	9205.8	9148.4	8677.6	8688.3	8545.1	8546.9
45°	15011.1	15011.1	14790.8	13528.5	11741.4	10244.4	10187.0	9494.1	9601.6	9535.3	9694.6
47.5°	16037.2	16069.4	16038.9	14950.2	13182.9	11564.1	11460.3	10625.8	10926.6	11154.1	11617.8
50°	17084.7	17134.9	17140.2	16509.9	14925.2	13132.7	13014.6	12128.2	12799.7	13451.5	14362.9
52.5°	18605.0	18717.8	18268.3	18066.0	17059.6	14995.0	14878.6	14060.3	15181.2	16096.3	17666.7
55°	20014.2	19915.7	19595.2	19720.6	19344.5	17115.1	17027.4	16309.3	17835.0	19024.0	21063.6
57.5°	20777.1	20769.9	21092.2	21629.4	21808.5	19729.5	19656.1	18957.7	20827.2	21720.7	24252.7
60°	21672.4	21684.9	22483.6	23702.9	24440.7	22984.9	22952.7	22422.6	23733.4	24238.4	26754.3
62.5°	21797.7	22023.4	23398.6	25497.2	26904.7	26788.3	26860.0	25543.8	26333.5	26247.6	28622.0
65°	20356.3	20653.5	23142.5	26039.8	29354.4	30948.1	31014.3	28682.8	28383.8	27964.8	29289.9
67.5°	17401.7	17842.1	20546.0	24859.7	30161.9	34022.5	34115.7	31116.3	30084.9	28546.7	27681.9
70°	12663.6	13152.4	15874.2	21231.9	28722.2	35005.7	35111.3	32192.5	30149.4	26890.3	23631.4
72.5°	7649.7	8032.9	10276.6	15630.7	24241.9	33215.0	33403.0	30828.1	27526.0	22777.2	17450.0
75°	3359.3	3609.9	4969.1	9007.0	17355.1	27481.3	27715.9	26387.2	22365.3	16552.9	10314.2
77.5°	1430.8	1502.4	2037.8	3912.6	9811.1	18778.7	19101.0	19280.1	15174.1	9007.0	4358.4
80°	891.8	920.4	1153.2	1771.0	4591.2	10547.0	10894.4	11343.8	7535.1	3310.9	1522.1
82.5°	542.5	574.8	766.4	1070.8	2390.5	4781.1	4947.6	5264.5	2924.1	1430.8	787.9
85°	325.9	349.1	469.1	676.9	1360.9	1880.2	1878.4	2077.2	1377.0	920.4	415.5
87.5°	155.8	173.7	250.7	351.0	685.8	705.6	660.7	748.5	836.3	603.5	209.5
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°	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8
2.5°	5327.2	5320.1	5296.8	5278.9	5275.3	5264.5	5255.6	5261.0	5268.1	5270.0	5270.0
5°	5325.5	5305.7	5275.3	5262.8	5278.9	5300.3	5327.2	5363.0	5384.5	5400.6	5411.4
7.5°	5411.4	5373.8	5339.7	5332.6	5364.8	5422.2	5483.0	5558.2	5610.2	5645.9	5653.1
10°	5554.6	5508.1	5474.1	5481.2	5538.5	5620.9	5706.8	5803.5	5882.4	5930.7	5934.2
12.5°	5719.3	5674.6	5642.4	5672.8	5767.7	5868.0	5957.5	6041.7	6113.3	6161.6	6161.6
15°	5909.2	5876.9	5839.3	5909.2	6038.1	6127.6	6165.3	6206.4	6245.8	6281.6	6274.4
17.5°	6091.9	6061.4	6041.7	6124.1	6258.3	6299.6	6274.4	6244.1	6244.1	6263.7	6267.4
20°	6249.4	6222.6	6235.1	6315.7	6385.5	6342.5	6249.4	6152.7	6113.3	6124.1	6134.8
22.5°	6387.2	6374.8	6412.4	6449.9	6399.8	6249.4	6077.5	5946.8	5898.5	5894.8	5898.5
25°	6548.4	6546.6	6593.2	6525.2	6303.1	6025.6	5794.6	5667.4	5640.6	5662.0	5697.9
27.5°	6749.0	6768.7	6792.0	6543.1	6106.2	5687.1	5452.5	5364.8	5391.7	5443.6	5477.6
30°	7005.1	7058.8	7008.7	6498.3	5823.2	5300.3	5076.6	5051.5	5124.9	5198.3	5234.1
32.5°	7254.0	7338.2	7216.3	6381.9	5457.9	4890.3	4716.6	4709.4	4799.0	4870.6	4920.7
35°	7454.5	7621.1	7372.2	6150.9	5035.4	4512.5	4385.4	4337.0	4369.2	4453.4	4510.6
37.5°	7716.0	7993.5	7479.6	5798.1	4577.0	4200.9	4052.2	3941.3	3912.6	3946.6	3975.3
40°	8194.1	8561.2	7529.7	5305.7	4129.3	3889.3	3738.9	3575.9	3463.1	3380.8	3382.5
42.5°	8974.8	9300.7	7497.5	4707.7	3715.7	3584.9	3414.8	3226.8	3044.1	2857.9	2843.5
45°	10242.6	10400.2	7400.8	4073.8	3352.1	3266.2	3106.8	2918.8	2675.2	2463.9	2444.3
47.5°	12271.4	11922.2	7250.4	3520.4	3031.6	2995.8	2849.0	2632.3	2374.4	2204.3	2190.0
50°	15038.0	14119.4	7177.0	3080.0	2748.6	2759.4	2639.4	2410.2	2166.7	2041.4	2027.0
52.5°	18347.1	16678.2	7318.4	2739.7	2521.2	2558.9	2469.3	2254.4	2050.3	1951.8	1937.5
55°	21779.9	19328.4	7470.6	2492.6	2306.4	2379.8	2349.4	2172.1	1987.6	1896.4	1883.8
57.5°	24718.3	21307.1	7166.2	2292.1	2114.8	2229.4	2256.2	2120.1	1955.4	1873.1	1858.7
60°	26568.0	22103.9	6367.6	2104.0	1962.6	2109.4	2202.6	2105.9	1967.9	1960.8	1950.0
62.5°	27445.4	22034.1	5169.6	1955.4	1867.7	2057.5	2242.0	2186.4	2111.2	2175.6	2181.0
65°	27051.5	20981.2	3849.9	1856.9	1799.7	2077.2	2360.1	2338.7	2152.3	2216.8	2225.7
67.5°	24458.6	18468.9	2850.7	1771.0	1724.4	2132.7	2575.0	2388.8	2071.8	2118.3	2089.7
70°	19768.9	14642.3	2198.9	1674.3	1647.4	2125.5	2671.7	2358.3	1984.0	1994.8	1917.8
72.5°	13632.3	9984.7	1788.9	1584.7	1536.4	1937.5	2603.6	2283.1	1910.6	1828.3	1726.2
75°	7413.3	5359.5	1520.3	1491.6	1341.2	1701.1	2478.3	2229.4	1844.4	1735.2	1677.8
77.5°	2917.0	2224.0	1319.7	1364.5	1172.9	1502.4	2338.7	2127.3	1753.1	1609.8	1581.1
80°	1190.8	1135.3	1094.1	1180.1	1008.1	1314.3	2170.3	2007.3	1643.8	1493.5	1436.1
82.5°	675.1	705.6	850.6	931.2	818.4	1210.5	2089.7	1910.6	1513.1	1337.6	1269.6
85°	345.6	413.6	592.7	667.9	601.7	1029.6	1924.9	1672.5	1214.1	1024.2	1029.6
87.5°	166.6	231.0	374.2	419.0	390.3	745.0	1437.9	1212.3	945.4	748.5	725.2
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)