

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: P383050

Luminaire Tested: **GLEON-SA4A-735-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383050  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4A-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17964.9 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

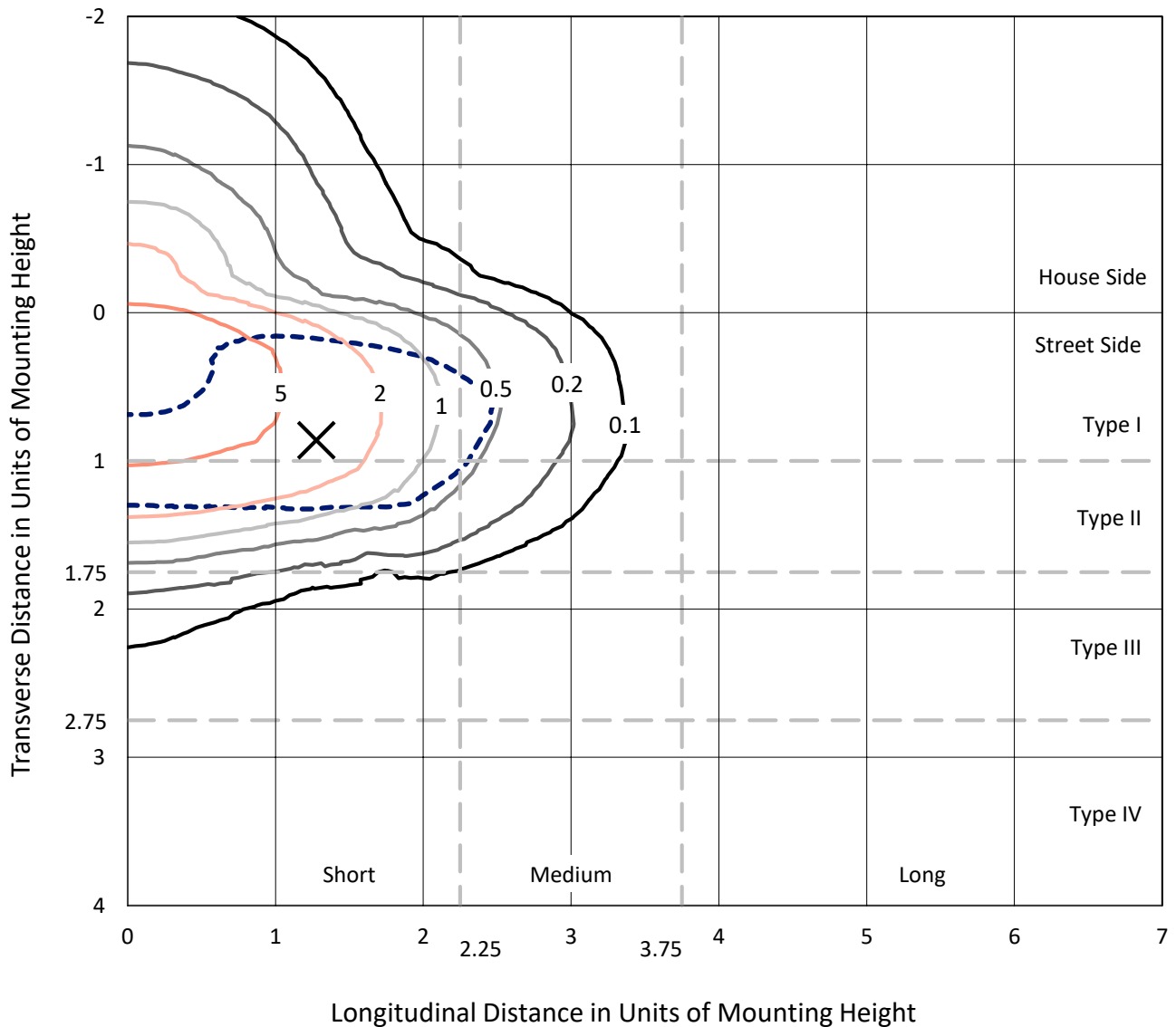
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

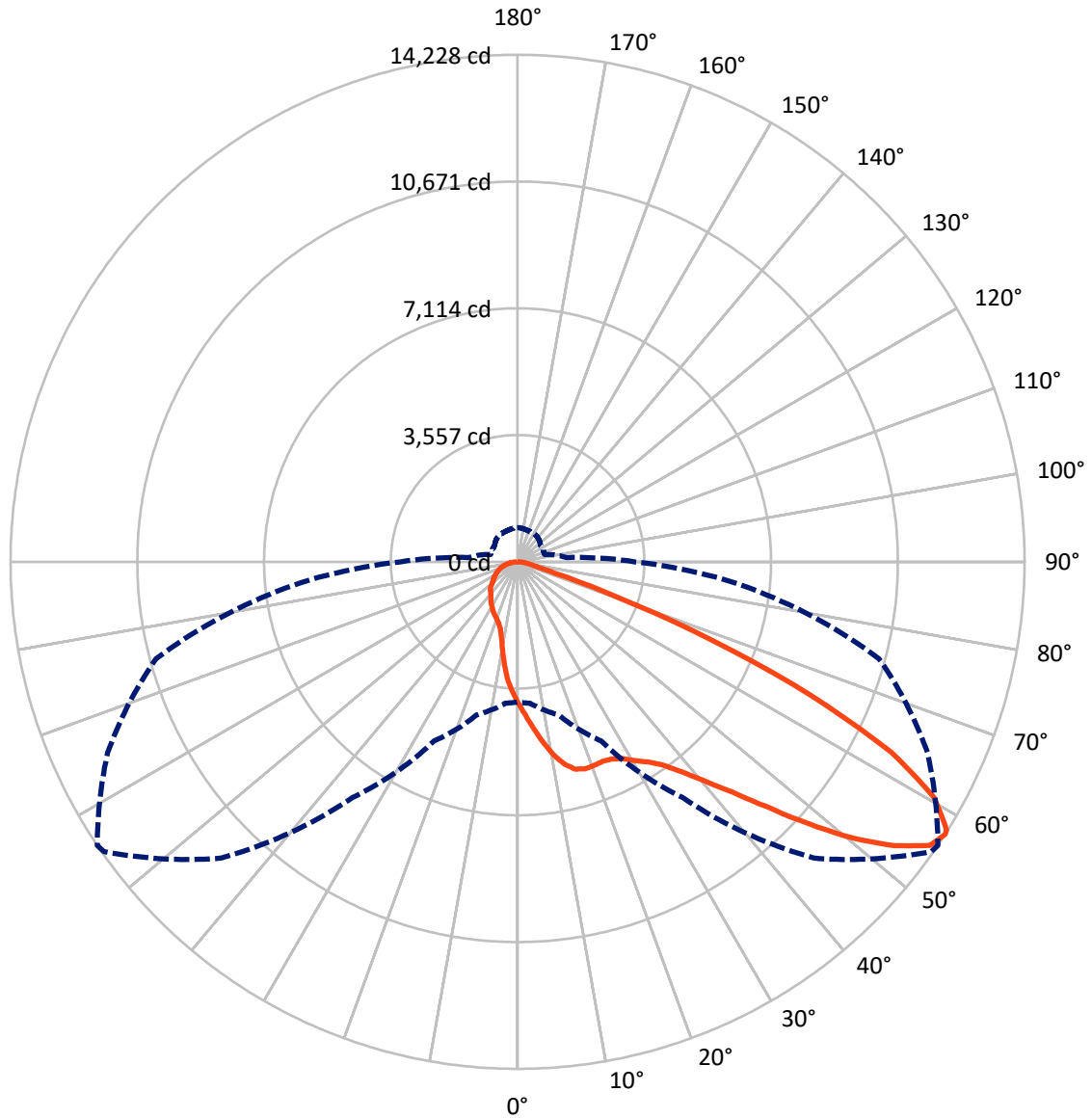
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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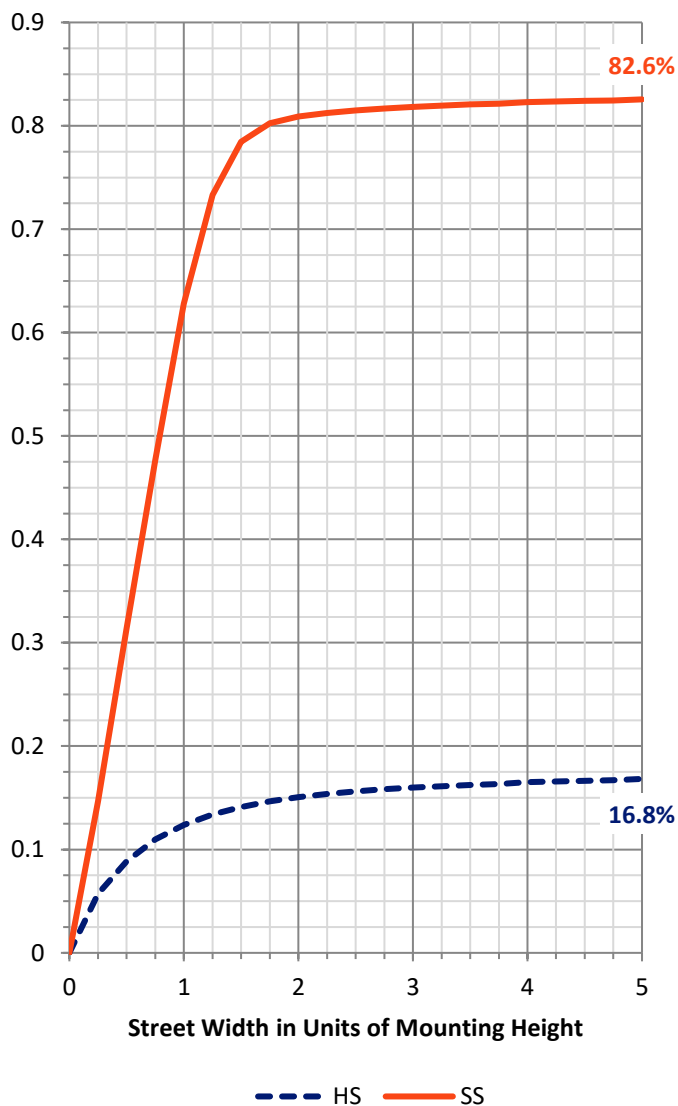
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3096.8	0.0	3096.8
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	14868.1	0.0	14868.1
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	17964.9	0.0	17964.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.6	2.1
10°-20°	1076.1	6.0
20°-30°	1752.8	9.8
30°-40°	2620.3	14.6
40°-50°	3974.4	22.1
50°-60°	4454.6	24.8
60°-70°	2631.1	14.6
70°-80°	862.0	4.8
80°-90°	213.0	1.2
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°	17964.9	100.0
0°-180°	17964.9	100.0

**Coefficient of Utilization**

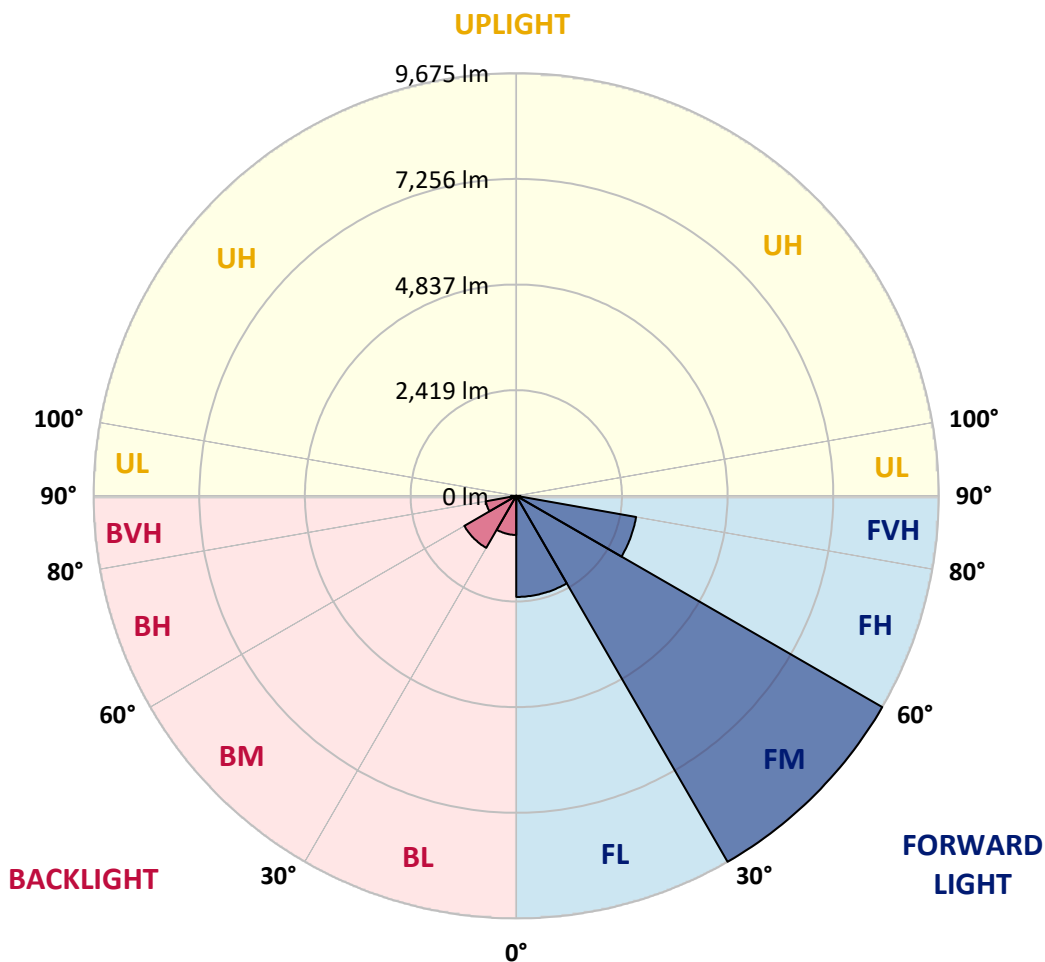


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2314.1	12.9			
FM (30°-60°)	9674.7	53.9			
FH (60°-80°)	2785.5	15.5			G2/5000
FVH (80°-90°)	93.8	0.5			G1/100
BL (0°-30°)	895.4	5.0	B2/1000		
BM (30°-60°)	1374.6	7.7	B2/2500		
BH (60°-80°)	707.6	3.9	B2/1000		G2/1000
BVH (80°-90°)	119.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3984.6	3984.6	3984.6	3984.6	3984.6	3984.6	3984.6	3984.6	3984.6	3984.6	3984.6
2.5°	4575.5	4617.5	4599.0	4534.7	4485.3	4415.5	4337.8	4314.3	4232.2	4140.2	4029.7
5°	5299.7	5278.7	5248.4	5148.4	5042.8	4920.0	4724.9	4694.0	4511.3	4303.2	4083.4
7.5°	5712.1	5710.2	5692.3	5633.7	5537.4	5376.8	5141.6	5105.2	4829.2	4494.6	4153.8
10°	5652.2	5647.9	5677.5	5738.6	5767.7	5734.3	5536.1	5499.7	5160.8	4706.4	4235.3
12.5°	5312.1	5314.5	5362.0	5490.4	5665.2	5875.1	5842.9	5825.1	5504.6	4945.9	4334.1
15°	5047.1	5052.7	5090.3	5202.1	5408.3	5789.3	6029.4	6035.6	5837.4	5210.1	4449.5
17.5°	4931.1	4942.8	4960.1	5038.6	5227.5	5618.3	6073.9	6107.2	6128.8	5484.3	4560.7
20°	4968.1	4979.2	4984.2	5034.2	5189.2	5514.5	6043.0	6102.8	6352.3	5742.3	4671.8
22.5°	5134.2	5141.0	5144.1	5157.0	5277.4	5544.2	6022.6	6085.6	6514.0	5973.8	4755.7
25°	5409.6	5404.7	5384.9	5368.2	5449.1	5661.5	6069.6	6129.4	6645.6	6183.8	4810.7
27.5°	5739.3	5733.1	5694.8	5649.1	5695.4	5844.3	6204.8	6252.3	6763.5	6380.1	4838.5
30°	6135.0	6119.0	6046.7	5992.4	6010.3	6118.3	6427.7	6470.9	6945.6	6603.0	4865.7
32.5°	6592.5	6575.2	6470.9	6380.7	6380.7	6470.9	6657.3	6693.1	7100.0	6854.9	4909.4
35°	7165.5	7143.9	7007.9	6856.7	6814.1	6859.8	6970.3	6995.6	7377.8	7172.2	4989.1
37.5°	7840.8	7811.9	7635.9	7433.4	7340.1	7337.7	7417.4	7469.1	7821.7	7588.9	5124.4
40°	8518.2	8497.8	8344.1	8184.8	8002.0	7943.3	8066.2	8082.2	8402.1	8106.3	5297.2
42.5°	9041.7	9038.0	9009.6	9030.5	8843.5	8725.0	8821.3	8834.2	9110.8	8666.3	5481.2
45°	9318.3	9324.4	9462.1	9767.1	9836.2	9749.9	9797.4	9801.1	9920.8	9231.2	5649.7
47.5°	9096.7	9128.7	9476.9	10159.2	10725.3	11012.4	10933.4	10979.0	10706.2	9716.5	5781.8
50°	8232.9	8272.4	8865.1	9984.4	11140.2	12234.2	12192.8	12182.3	11339.5	10072.1	5853.5
52.5°	7162.9	7193.8	7682.8	9076.3	10835.8	12909.6	13289.3	13235.0	11902.7	10338.2	5867.1
55°	5533.7	5581.8	6050.4	7263.6	9604.7	12651.5	14095.6	14046.8	12415.7	10477.7	5851.0
57°	3934.0	3984.6	4450.1	5543.5	8079.8	11758.2	14175.9	14227.7	12692.9	10501.1	5868.9
57.5°	3510.4	3562.3	4023.5	5085.4	7604.4	11435.3	14106.7	14193.2	12742.9	10497.4	5878.8
60°	1767.6	1787.4	2081.3	2838.8	4807.0	9244.8	13204.7	13427.6	12788.0	10316.0	5921.4
62.5°	1098.9	1084.8	1075.5	1307.6	2338.7	6130.7	11343.3	11772.3	11925.5	9876.4	5818.3
65°	966.2	939.7	837.8	819.3	1032.9	2977.7	8542.2	9076.3	10082.6	9183.7	5572.5
67.5°	907.6	881.6	766.8	697.6	698.3	1180.5	5303.4	5904.7	7854.4	8012.5	4992.8
70°	847.1	823.6	716.2	634.7	594.5	653.9	2439.9	2896.2	5120.0	6298.0	4173.0
72.5°	769.3	753.2	651.3	567.4	524.7	489.6	934.2	1103.2	2964.1	4229.7	2898.0
75°	687.8	672.9	585.9	505.6	453.8	385.3	526.0	566.8	1505.8	2164.0	1426.8
77.5°	598.2	589.6	521.1	447.0	405.6	319.1	372.2	392.1	645.7	927.9	715.5
80°	476.0	492.7	455.6	398.2	359.9	255.6	263.6	276.6	376.0	453.2	406.2
82.5°	309.9	339.0	356.9	323.5	296.3	201.3	189.6	195.1	245.1	276.6	176.5
85°	129.0	145.0	234.6	211.7	196.9	146.9	127.2	129.7	151.8	157.4	72.2
87.5°	57.4	61.1	103.1	97.0	83.4	50.6	54.3	59.2	80.9	76.6	27.8
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°	3984.6	3984.6	3984.6	3984.6	3984.6	3984.6	3984.6	3984.6	3984.6	3984.6	3984.6
2.5°	3988.3	3936.4	3847.6	3749.4	3669.2	3604.9	3540.1	3495.6	3443.8	3416.0	3401.8
5°	3991.4	3889.6	3702.5	3510.4	3338.9	3182.0	3032.7	2917.8	2810.4	2752.4	2736.2
7.5°	4004.4	3851.3	3548.7	3232.7	2927.7	2649.2	2434.3	2299.8	2202.8	2159.6	2147.3
10°	4014.9	3806.2	3358.6	2890.6	2475.8	2193.6	2026.9	1951.6	1918.2	1912.7	1907.2
12.5°	4039.6	3759.9	3158.6	2533.8	2124.4	1929.3	1871.3	1866.4	1875.7	1889.2	1889.2
15°	4078.5	3714.2	2930.1	2227.5	1900.9	1832.4	1844.2	1871.3	1896.6	1917.6	1920.7
17.5°	4106.9	3658.0	2684.4	1982.4	1781.8	1800.3	1842.3	1880.6	1906.5	1926.9	1928.8
20°	4127.2	3571.0	2422.0	1795.4	1713.2	1770.7	1823.1	1857.1	1875.0	1895.4	1898.5
22.5°	4116.8	3454.3	2189.2	1661.4	1657.7	1727.5	1777.5	1818.2	1804.6	1784.8	1797.8
25°	4066.1	3293.8	1949.7	1561.4	1599.0	1669.4	1731.2	1704.0	1658.3	1649.7	1654.6
27.5°	3976.0	3088.8	1728.1	1468.8	1531.1	1615.7	1612.0	1584.8	1568.8	1557.6	1564.4
30°	3879.1	2866.6	1534.2	1387.9	1455.8	1525.6	1511.3	1510.8	1494.7	1476.8	1485.4
32.5°	3783.4	2643.1	1380.5	1321.2	1399.0	1408.2	1439.1	1448.4	1416.9	1379.2	1376.7
35°	3700.0	2431.9	1263.8	1260.7	1330.4	1331.7	1376.7	1363.8	1285.4	1246.5	1246.5
37.5°	3637.7	2221.4	1174.9	1206.4	1240.4	1272.4	1295.3	1241.6	1228.6	1207.0	1206.4
40°	3610.5	2036.2	1119.3	1165.0	1176.7	1217.5	1158.8	1179.8	1186.0	1174.9	1174.9
42.5°	3582.1	1875.0	1071.2	1133.5	1131.6	1126.1	1096.5	1123.6	1148.3	1149.0	1147.1
45°	3553.7	1736.1	1028.6	1066.2	1092.1	1032.2	1037.8	1066.8	1101.5	1113.8	1113.8
47.5°	3522.2	1626.2	989.7	995.3	1035.3	995.3	990.9	1013.2	1053.9	1073.6	1078.0
50°	3453.1	1527.5	945.2	932.9	944.0	957.5	961.3	971.8	1016.9	1048.4	1055.7
52.5°	3357.4	1439.1	888.4	875.5	875.5	926.7	944.0	947.1	985.4	1023.0	1030.4
55°	3277.7	1383.0	829.7	827.3	824.8	894.0	923.6	928.6	955.1	984.7	988.5
57°	3283.2	1378.6	784.7	787.2	786.6	860.7	904.4	915.0	928.6	953.9	958.2
57.5°	3286.4	1381.7	774.9	776.1	775.4	851.3	898.9	910.7	921.1	947.7	952.0
60°	3332.7	1389.8	734.7	721.1	724.2	802.0	867.5	882.3	889.1	924.2	929.8
62.5°	3264.1	1353.9	702.6	669.9	669.9	750.1	823.6	847.1	857.6	905.1	914.3
65°	3065.4	1253.3	664.9	611.8	618.0	698.3	771.1	809.4	825.4	884.7	894.6
67.5°	2758.5	1136.6	624.8	560.0	566.1	644.0	716.8	758.2	783.4	862.5	870.5
70°	2359.1	994.0	570.5	505.0	512.4	584.6	652.5	699.5	737.1	841.5	844.0
72.5°	1739.2	814.9	494.6	444.5	452.5	515.5	587.7	642.1	692.7	789.0	787.8
75°	1034.1	637.2	410.5	383.4	388.9	447.6	529.1	595.2	671.1	768.6	780.4
77.5°	627.3	479.7	334.6	321.0	327.8	387.7	487.1	557.5	661.9	724.8	721.1
80°	379.0	342.6	267.4	258.7	265.5	331.5	450.7	529.1	578.5	619.2	619.2
82.5°	198.1	209.3	196.4	189.6	198.8	269.2	410.0	461.8	511.2	438.9	410.0
85°	80.9	109.3	119.1	118.5	124.1	186.5	353.8	395.2	329.7	313.0	320.5
87.5°	27.2	46.3	58.0	50.0	52.4	117.3	245.1	190.8	226.6	158.1	150.0
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)