

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: P317566

Luminaire Tested: **GLEON-SA2C-827-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317566  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2C-827-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11083 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 113  
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

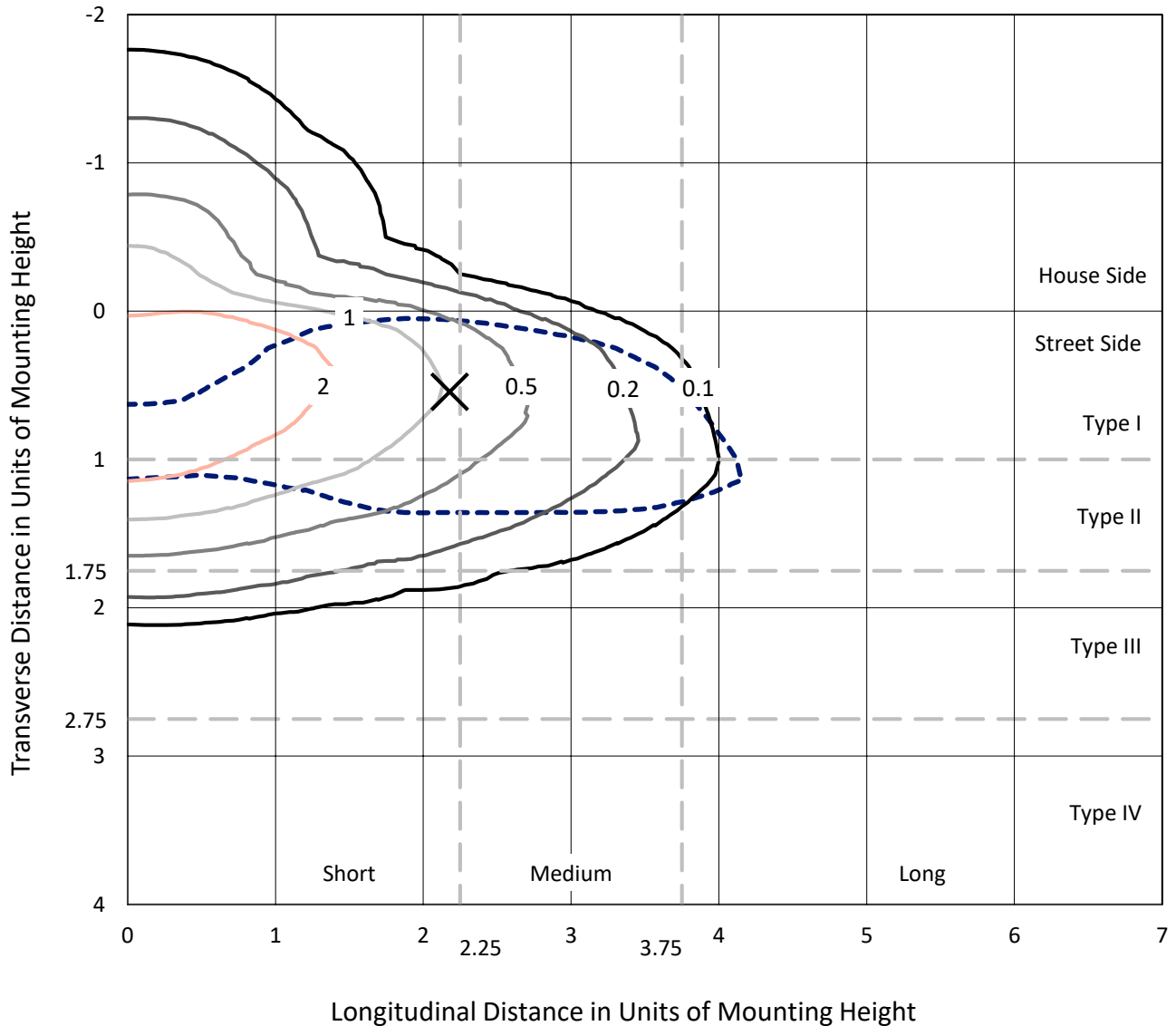




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### Iso-Footcandle Lines of Horizontal Illumination

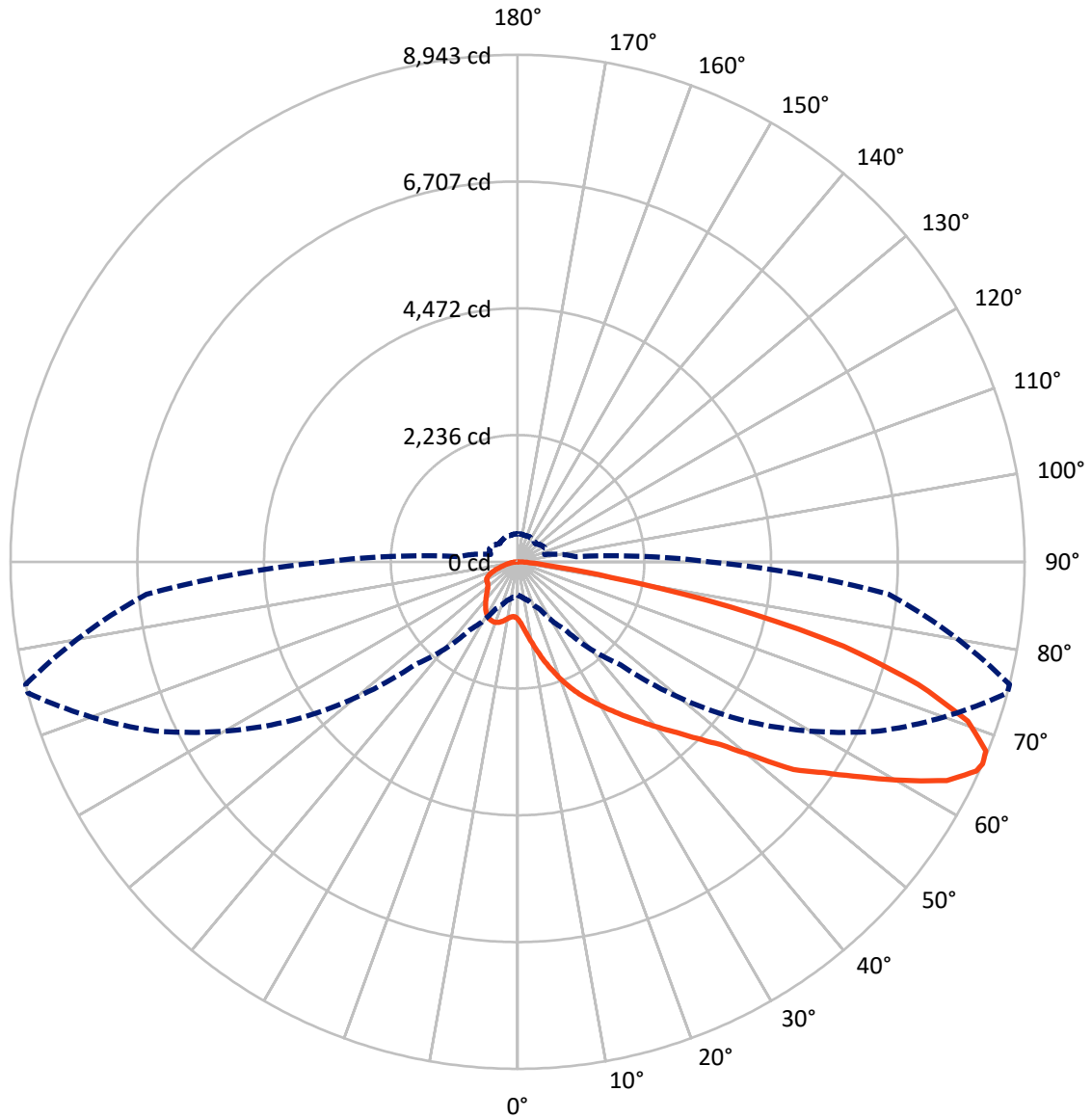
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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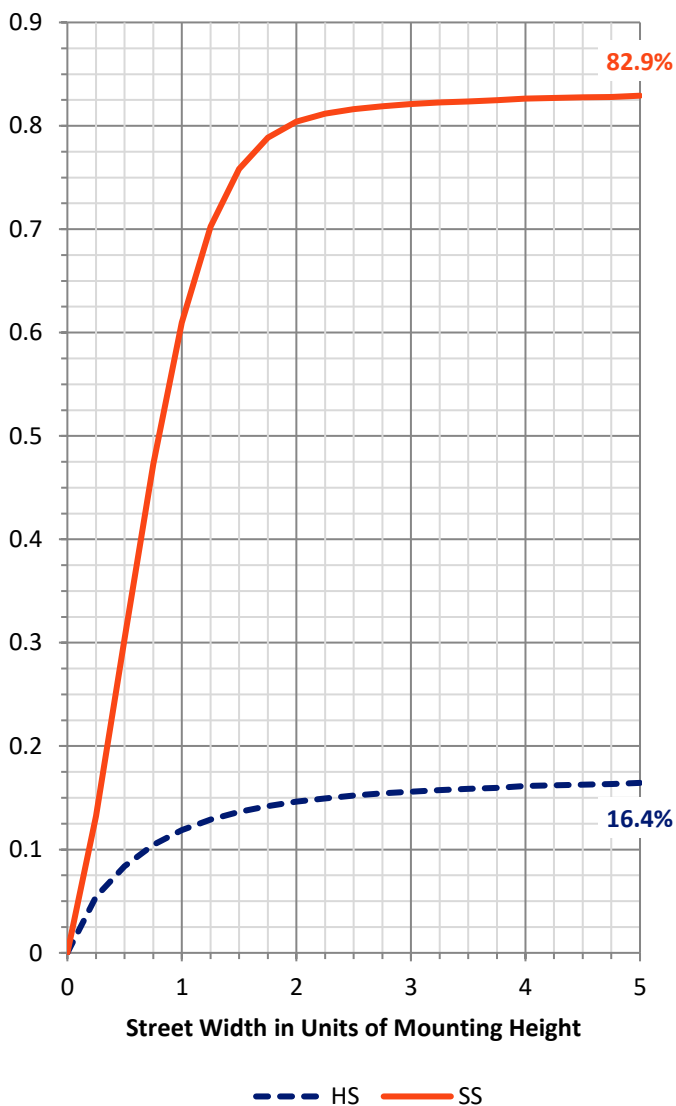
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1864.9	0.0	1864.9
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	9218.1	0.0	9218.1
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	11083.0	0.0	11083.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.4	1.1
10°-20°	483.3	4.4
20°-30°	939.2	8.5
30°-40°	1533.0	13.8
40°-50°	2094.5	18.9
50°-60°	2439.6	22.0
60°-70°	2187.2	19.7
70°-80°	1105.3	10.0
80°-90°	178.5	1.6
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°	11083.0	100.0
0°-180°	11083.0	100.0

**Coefficient of Utilization**



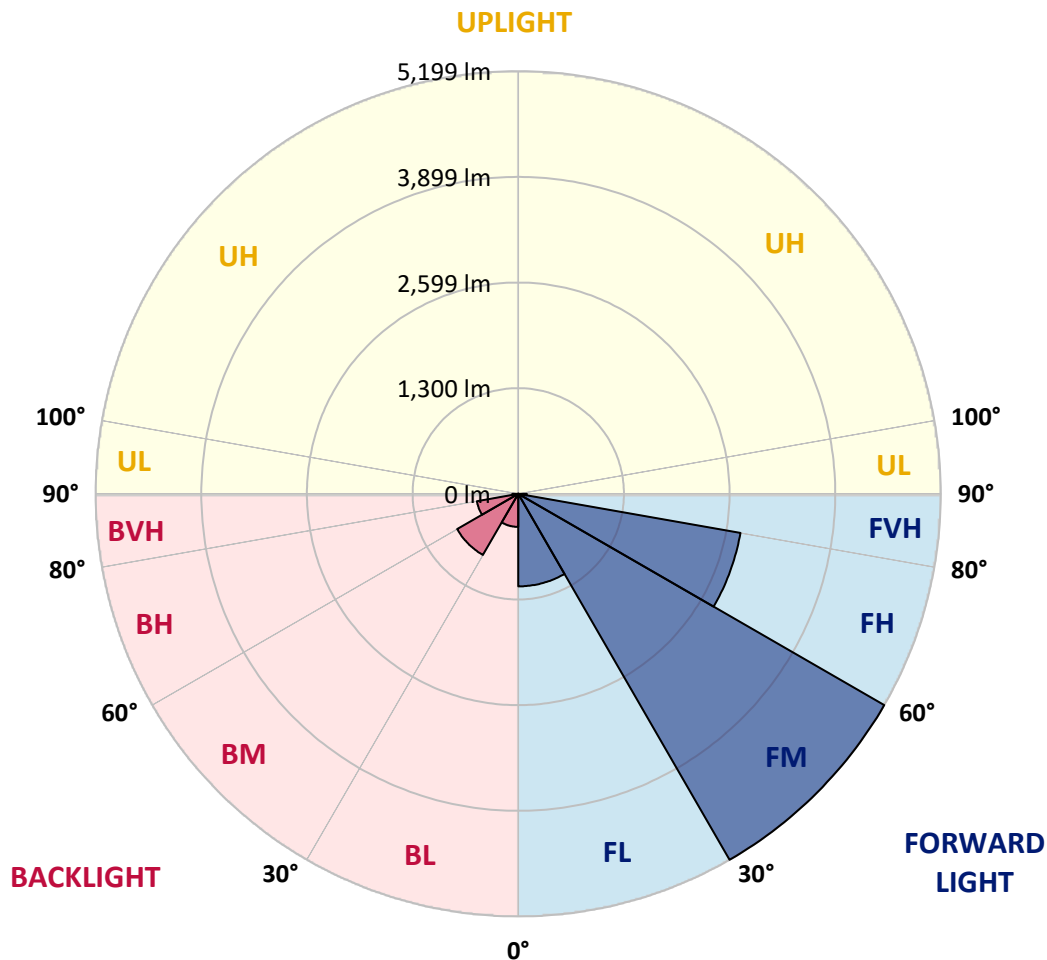
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1138.2	10.3			
FM (30°-60°)	5198.7	46.9			
FH (60°-80°)	2775.8	25.0			G2/5000
FVH (80°-90°)	105.4	1.0			G2/225
BL (0°-30°)	406.7	3.7	B1/500		
BM (30°-60°)	868.4	7.8	B1/1000		
BH (60°-80°)	516.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	73.1	0.7			G1/100
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°	65°	75°	76°	85°
0°	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1
2.5°	1343.6	1323.3	1321.4	1291.7	1284.9	1228.1	1186.3	1142.7	1093.0	1083.2	1044.1
5°	1725.9	1724.0	1698.0	1649.5	1611.5	1514.4	1418.5	1316.9	1205.5	1187.5	1099.4
7.5°	2069.8	2066.8	2046.8	1994.5	1939.6	1820.3	1683.4	1527.6	1347.0	1320.3	1174.3
10°	2330.9	2329.8	2323.0	2284.6	2238.0	2123.6	1972.3	1759.7	1511.4	1474.9	1268.0
12.5°	2532.6	2534.8	2539.3	2525.8	2503.6	2406.2	2251.1	2005.8	1686.8	1650.6	1372.2
15°	2669.2	2675.9	2699.3	2718.4	2730.1	2670.3	2520.2	2257.5	1883.2	1839.9	1487.7
17.5°	2738.0	2745.5	2785.8	2843.7	2897.2	2891.1	2771.9	2497.6	2071.7	2029.9	1611.9
20°	2797.5	2803.1	2848.3	2917.9	3012.3	3054.1	2987.1	2728.6	2278.2	2228.6	1743.6
22.5°	2969.8	2976.9	2990.5	3030.0	3113.5	3190.3	3157.9	2947.2	2467.5	2421.2	1868.5
25°	3302.4	3311.1	3281.7	3248.2	3264.0	3317.4	3323.5	3146.6	2659.4	2607.1	2002.8
27.5°	3703.1	3715.5	3665.5	3579.3	3504.1	3483.4	3476.2	3309.9	2842.6	2782.0	2135.6
30°	4095.5	4117.0	4051.9	3940.1	3802.1	3705.0	3633.1	3469.8	3023.2	2965.3	2260.9
32.5°	4478.9	4470.3	4375.9	4266.7	4104.9	3983.4	3809.6	3641.4	3226.4	3159.8	2385.5
35°	4741.6	4744.6	4656.9	4527.5	4373.2	4279.9	4045.9	3826.5	3433.7	3372.4	2526.9
37.5°	4965.1	4951.1	4851.8	4731.0	4598.2	4558.3	4322.4	4030.5	3658.3	3591.4	2677.4
40°	5039.6	5023.4	4958.3	4871.4	4764.9	4761.5	4627.6	4261.5	3912.3	3846.1	2847.1
42.5°	4994.4	4973.7	4947.0	4923.3	4890.6	4905.6	4914.3	4532.4	4191.5	4117.4	3043.5
45°	4827.7	4796.5	4815.3	4866.9	4938.0	5023.0	5173.1	4832.3	4504.2	4442.1	3274.2
47.5°	4571.5	4543.3	4602.0	4712.2	4905.6	5120.8	5418.1	5163.4	4877.4	4815.7	3602.6
50°	4211.1	4219.3	4303.2	4503.8	4796.1	5166.0	5719.8	5601.7	5420.0	5362.4	4050.8
52.5°	3619.6	3621.1	3857.4	4186.6	4602.0	5142.7	5887.3	6161.9	6160.8	6091.2	4477.4
55°	3070.2	3103.7	3290.7	3728.3	4287.4	5049.4	6004.3	6434.3	6647.3	6565.7	4875.1
57.5°	2533.7	2553.3	2730.5	3170.0	3838.6	4800.6	6124.3	6761.3	7207.9	7156.4	5369.5
60°	1923.4	1953.5	2136.8	2542.7	3264.4	4359.3	6135.6	7102.6	7878.0	7826.1	5921.5
62.5°	1248.4	1300.3	1471.9	1852.3	2569.8	3724.6	5873.7	7325.7	8513.2	8494.7	6411.4
65°	717.5	756.7	875.9	1169.4	1772.9	2927.6	5251.0	7239.9	8904.1	8893.6	6594.6
66°	586.2	610.7	702.1	913.9	1462.9	2571.0	4889.1	7058.9	8942.8	8943.2	6573.6
67.5°	468.8	479.7	520.7	654.3	1079.5	2037.8	4242.3	6659.7	8894.7	8907.9	6437.7
70°	387.9	393.6	406.4	438.7	589.2	1228.9	3011.2	5622.4	8411.2	8421.4	5907.6
72.5°	348.0	351.4	356.3	360.8	415.8	686.7	1839.1	4497.8	7374.6	7387.8	5099.8
75°	315.3	317.2	316.4	316.8	348.8	437.6	950.4	3358.1	5962.9	5936.6	3906.7
77.5°	276.9	278.8	275.0	275.8	308.5	336.4	473.0	2350.8	4024.1	3838.2	2201.1
80°	234.0	235.5	234.0	236.7	268.6	254.0	275.0	1322.5	1779.3	1683.0	782.6
82.5°	176.8	183.2	187.8	198.3	221.2	180.6	184.0	515.1	541.8	515.8	240.1
85°	77.5	94.4	141.5	151.6	166.3	108.4	120.8	210.0	220.5	213.7	87.3
87.5°	20.3	22.2	70.0	88.0	92.2	48.9	62.8	95.6	100.8	95.6	29.0
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°	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1
2.5°	1023.4	1005.0	971.9	942.5	920.3	905.3	890.2	882.7	878.2	873.7	874.4
5°	1056.1	1018.9	962.1	921.8	899.3	885.0	877.4	874.4	872.5	868.0	868.0
7.5°	1105.4	1052.8	974.5	933.1	915.4	904.5	900.0	898.5	896.2	891.0	891.7
10°	1167.5	1093.8	1000.5	960.2	944.0	932.0	925.6	923.3	919.2	913.2	913.9
12.5°	1240.5	1144.6	1034.7	992.6	973.0	956.8	946.3	939.9	932.7	924.8	925.2
15°	1320.3	1199.9	1071.6	1021.5	994.8	972.2	955.3	944.4	933.1	923.3	923.0
17.5°	1401.2	1253.3	1099.8	1037.3	1001.2	971.5	948.5	931.6	917.7	905.6	904.5
20°	1488.5	1301.5	1115.6	1035.8	989.2	953.8	923.3	902.3	886.8	874.8	872.9
22.5°	1577.3	1346.6	1118.2	1020.4	962.5	919.2	887.2	863.9	848.1	835.7	831.1
25°	1658.5	1381.6	1107.3	990.7	925.2	878.6	847.3	823.6	810.8	796.2	791.6
27.5°	1732.7	1406.1	1085.5	952.7	883.4	837.5	808.2	787.9	774.0	762.7	758.9
30°	1799.3	1419.2	1049.8	907.5	840.6	798.8	774.0	760.0	748.0	733.7	731.1
32.5°	1862.5	1419.2	1003.9	858.2	798.0	764.6	749.9	741.2	727.7	713.8	710.0
35°	1925.7	1410.6	949.7	806.7	758.9	740.1	739.3	729.2	708.5	689.7	684.8
37.5°	1992.3	1392.9	888.7	758.5	726.9	729.2	735.6	713.0	683.7	656.9	649.8
40°	2067.5	1368.4	825.5	716.8	700.2	724.3	725.4	689.7	632.5	608.0	601.6
42.5°	2155.9	1344.0	766.8	679.9	679.1	709.6	706.2	639.3	605.0	592.6	589.2
45°	2272.2	1330.1	711.1	644.9	662.6	685.9	673.5	611.4	597.1	590.0	587.0
47.5°	2455.4	1337.2	660.0	617.1	646.0	662.2	612.5	600.1	590.0	581.3	578.3
50°	2685.0	1333.1	618.6	597.9	627.2	637.4	585.1	585.5	580.2	570.4	565.9
52.5°	2857.7	1300.7	591.9	587.0	610.7	593.4	567.8	571.2	568.5	554.2	549.3
55°	3024.3	1272.9	578.3	582.8	598.6	538.4	547.5	555.7	553.1	539.2	536.9
57.5°	3231.7	1267.6	570.0	583.9	588.5	511.0	527.9	538.8	536.9	530.9	529.8
60°	3485.6	1269.1	562.5	585.8	577.2	490.6	509.5	523.4	524.5	523.4	522.6
62.5°	3625.2	1228.1	543.7	580.6	557.2	473.0	490.3	510.6	511.0	513.2	512.8
65°	3506.7	1105.4	508.7	562.1	523.7	458.3	473.7	495.9	490.3	500.4	500.4
66°	3391.6	1034.7	491.4	550.1	509.5	452.6	468.4	488.4	481.2	495.2	495.2
67.5°	3156.4	915.4	460.2	524.5	489.1	444.7	462.4	476.0	466.2	486.9	485.4
70°	2726.7	708.1	397.3	466.6	455.6	433.1	454.1	451.1	436.8	468.4	462.4
72.5°	2298.9	538.0	319.1	390.6	404.9	418.4	442.5	419.5	401.5	423.7	410.5
75°	1783.8	404.5	252.1	303.6	342.0	395.4	428.6	383.0	357.1	354.8	347.7
77.5°	964.3	277.7	199.8	231.8	271.7	366.8	419.1	343.9	304.8	295.7	290.1
80°	381.9	180.6	145.2	175.7	190.0	325.5	396.6	298.4	251.3	242.3	233.7
82.5°	157.7	106.9	93.7	117.8	123.8	278.4	355.9	244.6	194.1	268.6	285.2
85°	67.7	58.7	55.7	61.0	70.0	195.3	283.3	186.6	209.6	187.0	148.6
87.5°	20.3	24.8	23.7	23.3	25.6	46.7	150.9	103.8	153.9	58.3	43.6
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)