

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: P383353

Luminaire Tested: **GLEON-SA6C-735-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383353  
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-SA6C-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39131.5 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

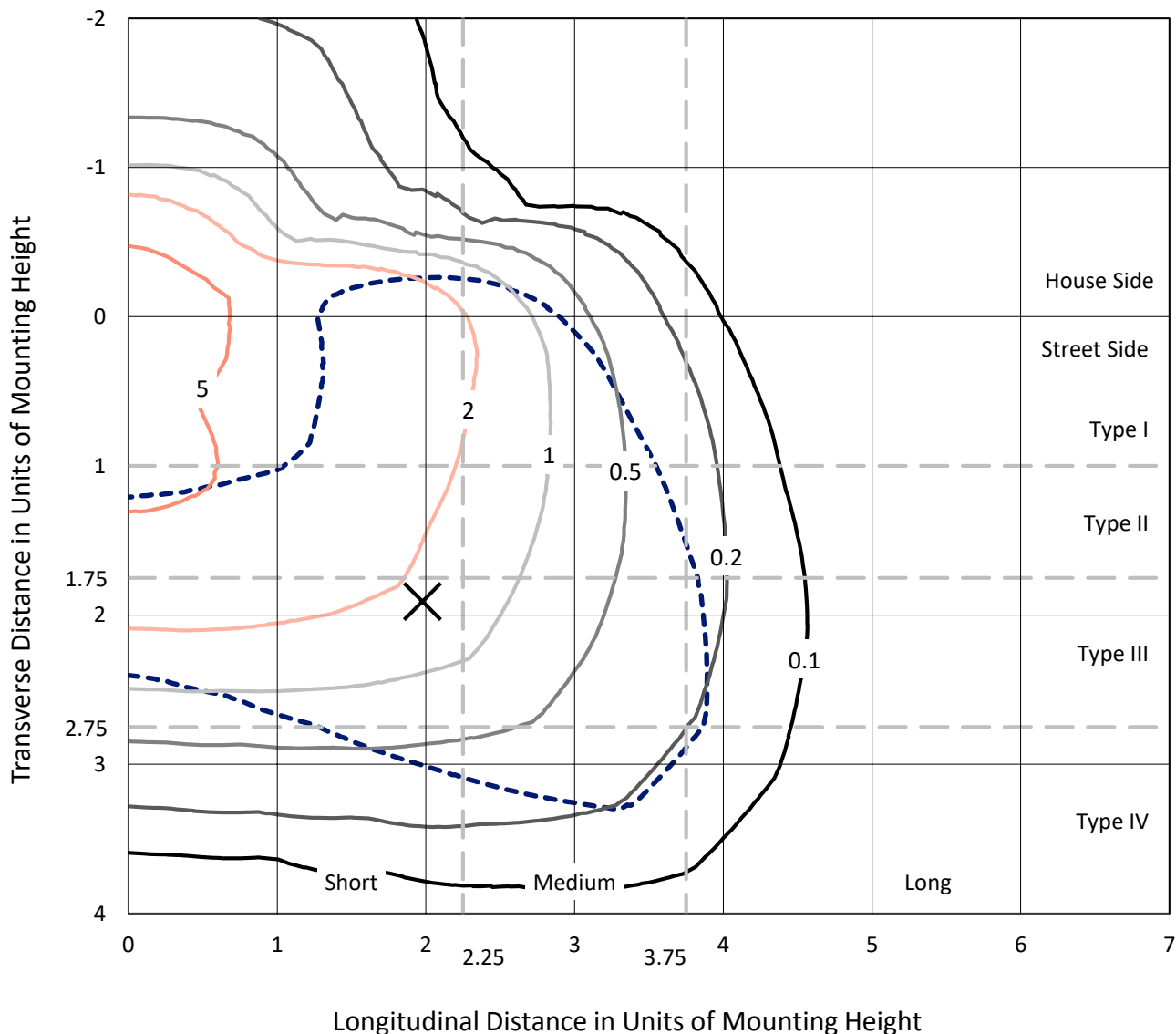
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

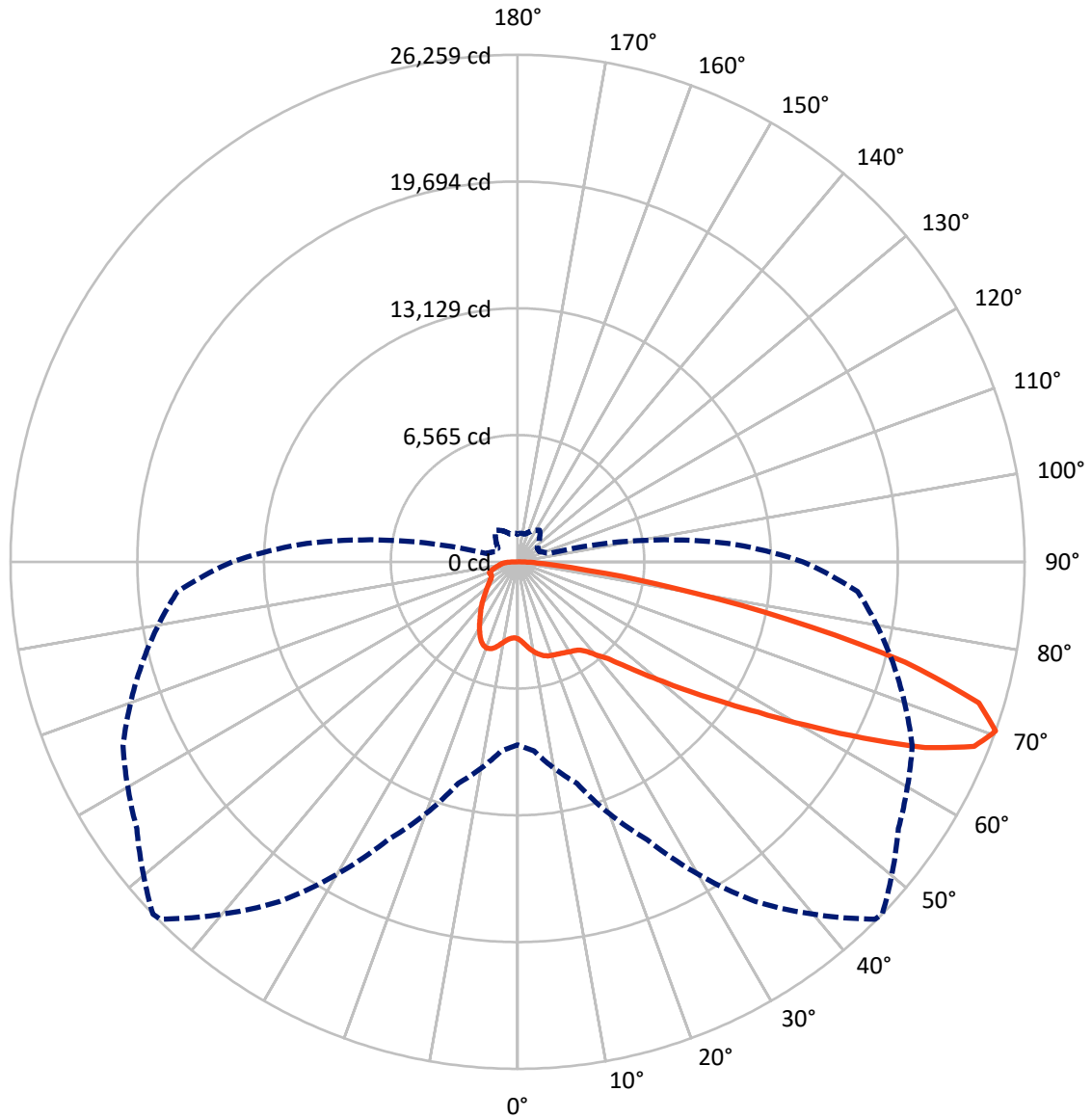
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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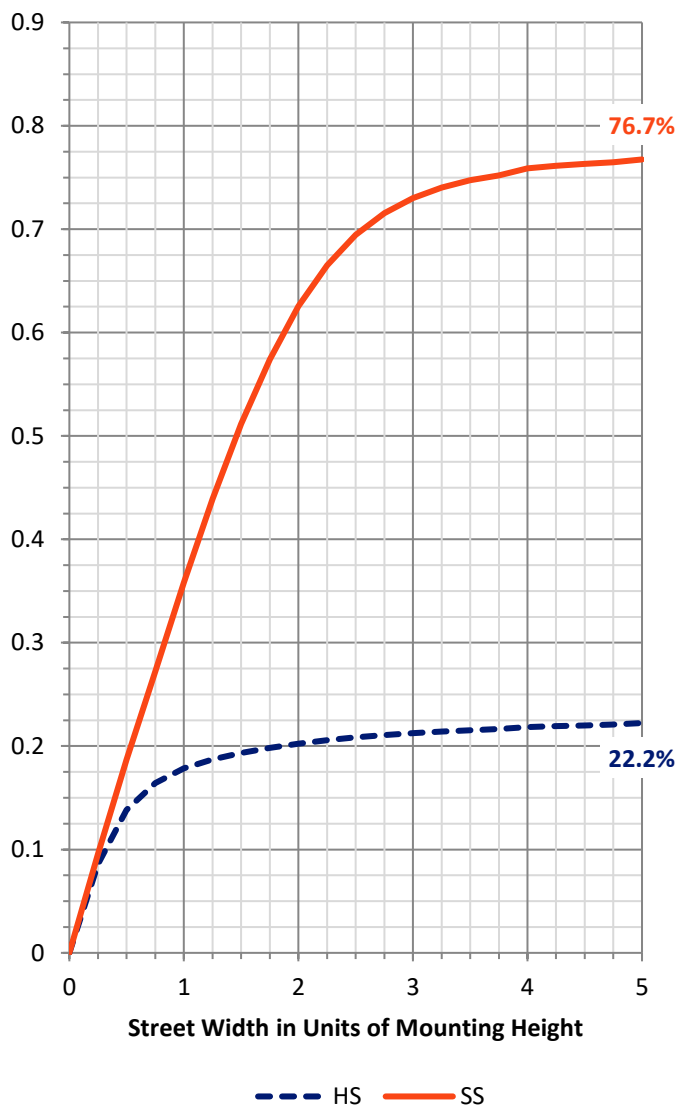
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8968.8	0.0	8968.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	30162.7	0.0	30162.7
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	39131.5	0.0	39131.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.4	1.0
10°-20°	1354.1	3.5
20°-30°	2257.7	5.8
30°-40°	3203.9	8.2
40°-50°	4712.7	12.0
50°-60°	7981.0	20.4
60°-70°	11328.9	29.0
70°-80°	6882.4	17.6
80°-90°	1004.4	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°	39131.5	100.0
0°-180°	39131.5	100.0

**Coefficient of Utilization**

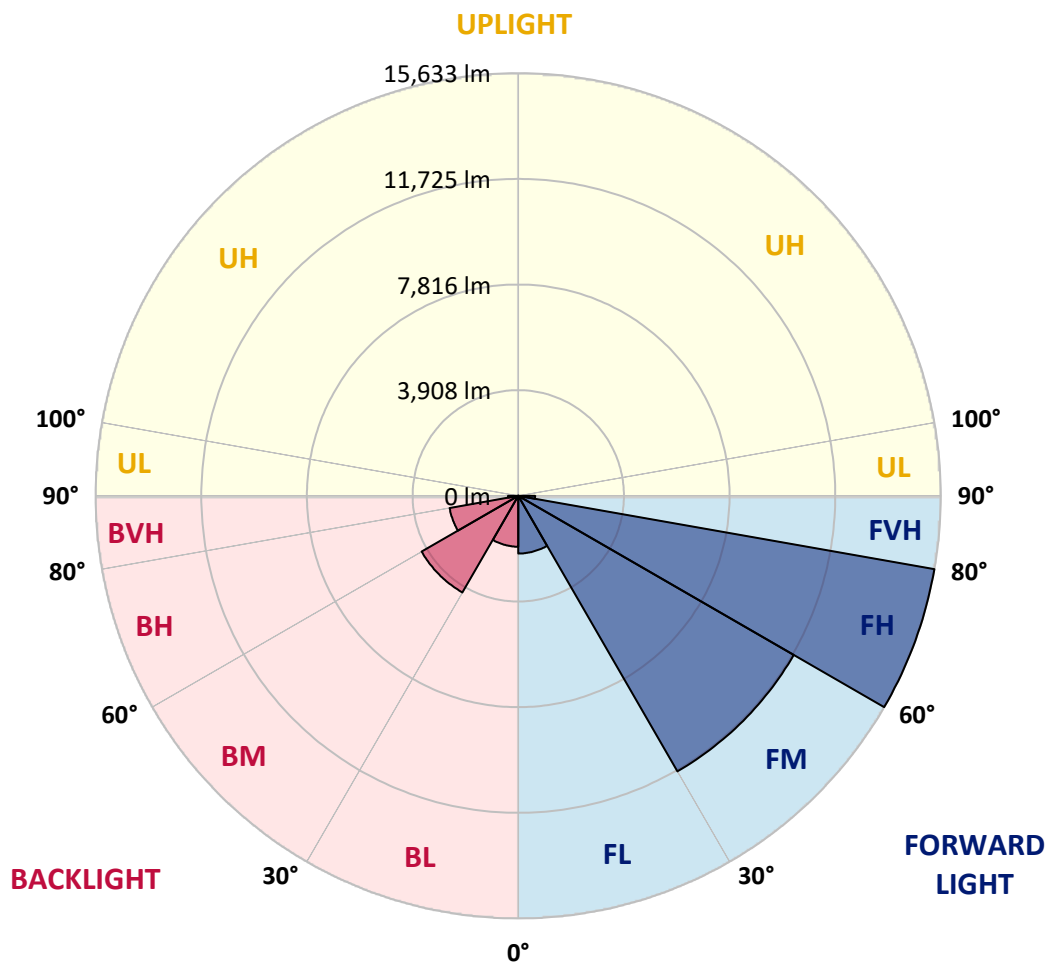


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2135.2	5.5			
FM (30°-60°)	11769.0	30.1			
FH (60°-80°)	15632.8	39.9			G5
FVH (80°-90°)	625.7	1.6			G4/750
BL (0°-30°)	1883.0	4.8	B3/2500		
BM (30°-60°)	4128.6	10.6	B3/5000		
BH (60°-80°)	2578.5	6.6	B4/5000		G4/5000
BVH (80°-90°)	378.7	1.0			G3/500
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°	3986.7	3986.7	3986.7	3986.7	3986.7	3986.7	3986.7	3986.7	3986.7	3986.7	3986.7
2.5°	4186.3	4189.0	4194.3	4180.9	4143.4	4132.7	4128.7	4089.9	4064.4	4026.9	3994.8
5°	4521.1	4523.8	4515.7	4478.2	4395.2	4333.6	4328.2	4239.8	4159.5	4073.8	4009.5
7.5°	4870.6	4874.6	4849.2	4778.2	4661.7	4554.5	4547.8	4427.4	4305.4	4175.6	4079.2
10°	5180.0	5163.8	5122.4	5023.3	4885.3	4754.1	4748.8	4622.8	4482.2	4325.5	4197.0
12.5°	5386.2	5372.8	5319.2	5198.7	5047.4	4926.9	4916.1	4799.6	4663.0	4491.6	4337.6
15°	5500.0	5509.4	5437.1	5300.5	5153.1	5051.4	5042.0	4959.0	4837.2	4664.4	4487.5
17.5°	5514.8	5522.8	5453.1	5317.9	5197.4	5127.7	5123.7	5068.8	4980.4	4814.3	4629.5
20°	5429.1	5434.4	5376.8	5265.7	5186.7	5165.2	5163.8	5139.8	5074.1	4926.9	4747.4
22.5°	5304.5	5308.5	5267.0	5186.7	5159.8	5193.4	5202.7	5193.4	5146.4	5008.6	4839.8
25°	5273.7	5271.0	5228.1	5146.4	5169.3	5240.2	5252.3	5256.3	5224.1	5103.6	4957.6
27.5°	5422.4	5412.9	5331.2	5200.0	5214.8	5300.5	5316.5	5355.4	5335.3	5229.5	5091.6
30°	5852.2	5836.1	5668.7	5403.6	5331.2	5375.5	5395.5	5457.2	5461.2	5372.8	5269.7
32.5°	6578.0	6558.0	6258.0	5783.9	5528.2	5451.8	5470.5	5562.9	5612.5	5544.2	5433.1
35°	7495.4	7472.6	7078.9	6430.8	5857.6	5597.8	5611.2	5684.8	5783.9	5687.5	5540.2
37.5°	8451.6	8396.7	8017.6	7191.4	6381.2	5909.8	5909.8	5919.1	5966.0	5765.2	5666.0
40°	9402.4	9347.4	9004.6	8085.9	7058.8	6401.3	6370.5	6162.9	6125.4	5952.7	5919.1
42.5°	10286.2	10270.1	10068.0	9097.0	7854.3	6884.7	6841.8	6489.6	6497.7	6390.6	6391.9
45°	11226.4	11226.4	11061.7	10117.5	8781.0	7661.4	7618.6	7100.3	7180.6	7131.1	7250.3
47.5°	11993.7	12017.8	11995.1	11180.8	9859.0	8648.4	8570.7	7946.7	8171.6	8341.7	8688.6
50°	12777.1	12814.6	12818.7	12347.2	11162.1	9821.5	9733.2	9070.3	9572.5	10059.9	10741.6
52.5°	13914.1	13998.5	13662.3	13511.0	12758.4	11214.2	11127.2	10515.2	11353.5	12037.9	13212.3
55°	14968.0	14894.3	14654.6	14748.4	14467.1	12799.8	12734.3	12197.2	13338.2	14227.4	15752.7
57.5°	15538.5	15533.2	15774.2	16176.0	16309.8	14755.1	14700.2	14177.9	15576.0	16244.2	18137.9
60°	16208.1	16217.5	16814.7	17726.7	18278.5	17189.7	17165.6	16769.2	17749.5	18127.2	20008.7
62.5°	16301.8	16470.6	17499.0	19068.6	20121.1	20034.1	20087.7	19103.4	19693.9	19629.7	21405.5
65°	15223.8	15446.1	17307.6	19474.4	21953.1	23145.0	23194.6	21450.9	21227.4	20914.0	21905.0
67.5°	13014.2	13343.6	15365.8	18591.8	22557.1	25444.4	25514.1	23270.9	22499.6	21349.2	20702.3
70°	9470.7	9836.3	11871.8	15878.6	21480.5	26179.7	26258.7	24075.8	22547.7	20110.4	17673.1
72.5°	5721.0	6007.6	7685.5	11689.7	18129.8	24840.5	24981.0	23055.3	20585.9	17034.4	13050.3
75°	2512.3	2699.8	3716.2	6736.1	12979.3	20552.4	20727.8	19734.2	16726.3	12379.3	7713.7
77.5°	1070.0	1123.5	1524.0	2926.1	7337.3	14044.0	14285.0	14419.0	11348.2	6736.1	3259.6
80°	666.9	688.3	862.4	1324.5	3433.7	7887.8	8147.6	8483.7	5635.3	2476.1	1138.3
82.5°	405.8	429.9	573.2	800.9	1787.8	3575.7	3700.1	3937.2	2186.9	1070.0	589.2
85°	243.7	261.1	350.8	506.2	1017.8	1406.2	1404.8	1553.4	1029.8	688.3	310.7
87.5°	116.5	129.9	187.5	262.5	512.9	527.6	494.2	559.8	625.4	451.3	156.7
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°	3986.7	3986.7	3986.7	3986.7	3986.7	3986.7	3986.7	3986.7	3986.7	3986.7	3986.7
2.5°	3984.0	3978.7	3961.3	3947.9	3945.2	3937.2	3930.5	3934.5	3939.9	3941.2	3941.2
5°	3982.7	3968.0	3945.2	3935.9	3947.9	3964.0	3984.0	4010.9	4026.9	4039.0	4047.0
7.5°	4047.0	4018.9	3993.5	3988.0	4012.2	4055.0	4100.6	4156.8	4195.7	4222.4	4227.8
10°	4154.1	4119.3	4093.9	4099.2	4142.1	4203.7	4268.0	4340.3	4399.2	4435.4	4438.1
12.5°	4277.3	4243.9	4219.7	4242.5	4313.5	4388.5	4455.4	4518.4	4571.9	4608.1	4608.1
15°	4419.3	4395.2	4367.1	4419.3	4515.7	4582.7	4610.8	4641.6	4671.1	4697.8	4692.5
17.5°	4555.9	4533.1	4518.4	4580.0	4680.5	4711.2	4692.5	4669.8	4669.8	4684.5	4687.1
20°	4673.8	4653.6	4663.0	4723.3	4775.5	4743.3	4673.8	4601.4	4571.9	4580.0	4588.1
22.5°	4776.9	4767.5	4795.6	4823.7	4786.2	4673.8	4545.2	4447.4	4411.3	4408.5	4411.3
25°	4897.3	4896.0	4930.9	4880.0	4713.9	4506.4	4333.6	4238.5	4218.4	4234.4	4261.3
27.5°	5047.4	5062.1	5079.5	4893.3	4566.6	4253.3	4077.8	4012.2	4032.3	4071.1	4096.6
30°	5238.8	5279.1	5241.5	4859.9	4355.0	3964.0	3796.6	3777.8	3832.8	3887.6	3914.5
32.5°	5425.1	5487.9	5396.9	4772.9	4081.9	3657.3	3527.4	3522.0	3589.0	3642.5	3680.1
35°	5575.0	5699.6	5513.4	4600.1	3765.8	3374.7	3279.6	3243.5	3267.6	3330.6	3373.4
37.5°	5770.6	5978.1	5593.8	4336.3	3423.0	3141.7	3030.6	2947.5	2926.1	2951.5	2972.9
40°	6128.1	6402.6	5631.2	3968.0	3088.2	2908.7	2796.2	2674.4	2590.0	2528.4	2529.7
42.5°	6712.0	6955.7	5607.2	3520.7	2778.8	2681.0	2553.8	2413.2	2276.6	2137.3	2126.6
45°	7660.1	7778.0	5534.8	3046.6	2507.0	2442.7	2323.5	2182.9	2000.8	1842.7	1828.0
47.5°	9177.4	8916.2	5422.4	2632.8	2267.2	2240.5	2130.6	1968.6	1775.7	1648.6	1637.8
50°	11246.4	10559.5	5367.4	2303.3	2055.6	2063.7	1973.9	1802.5	1620.4	1526.6	1515.9
52.5°	13721.2	12473.1	5473.2	2048.9	1885.5	1913.7	1846.7	1686.0	1533.3	1459.7	1449.0
55°	16288.4	14455.1	5587.0	1864.1	1724.9	1779.8	1757.0	1624.4	1486.5	1418.2	1408.8
57.5°	18486.0	15934.9	5359.4	1714.1	1581.6	1667.3	1687.4	1585.6	1462.3	1400.8	1390.1
60°	19869.4	16530.9	4762.2	1573.6	1467.7	1577.6	1647.2	1574.9	1471.8	1466.4	1458.3
62.5°	20525.6	16478.6	3866.2	1462.3	1396.8	1538.7	1676.7	1635.1	1578.9	1627.1	1631.1
65°	20231.0	15691.2	2879.2	1388.8	1345.9	1553.4	1765.0	1749.0	1609.7	1657.9	1664.6
67.5°	18291.9	13812.3	2131.9	1324.5	1289.6	1595.0	1925.7	1786.4	1549.4	1584.3	1562.9
70°	14784.5	10950.4	1644.6	1252.1	1232.1	1589.6	1998.1	1763.7	1483.8	1491.9	1434.3
72.5°	10195.1	7467.3	1337.8	1185.2	1149.0	1449.0	1947.1	1707.4	1428.9	1367.3	1290.9
75°	5544.2	4008.2	1137.0	1115.5	1003.1	1272.2	1853.4	1667.3	1379.3	1297.6	1254.8
77.5°	2181.5	1663.3	987.0	1020.4	877.1	1123.5	1749.0	1591.0	1311.1	1203.9	1182.5
80°	890.6	849.0	818.3	882.5	754.0	983.0	1623.1	1501.2	1229.4	1116.8	1074.0
82.5°	504.9	527.6	636.2	696.3	612.0	905.3	1562.9	1428.9	1131.6	1000.4	949.4
85°	258.5	309.4	443.2	499.5	449.9	770.0	1439.6	1250.8	908.0	766.0	770.0
87.5°	124.5	172.7	279.9	313.4	291.9	557.1	1075.4	906.6	707.0	559.8	542.3
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)