

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: P529814

Luminaire Tested: **GALN-SA5A-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-730-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18820 lumens  
Efficiency: N/A  
Efficacy: 122.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

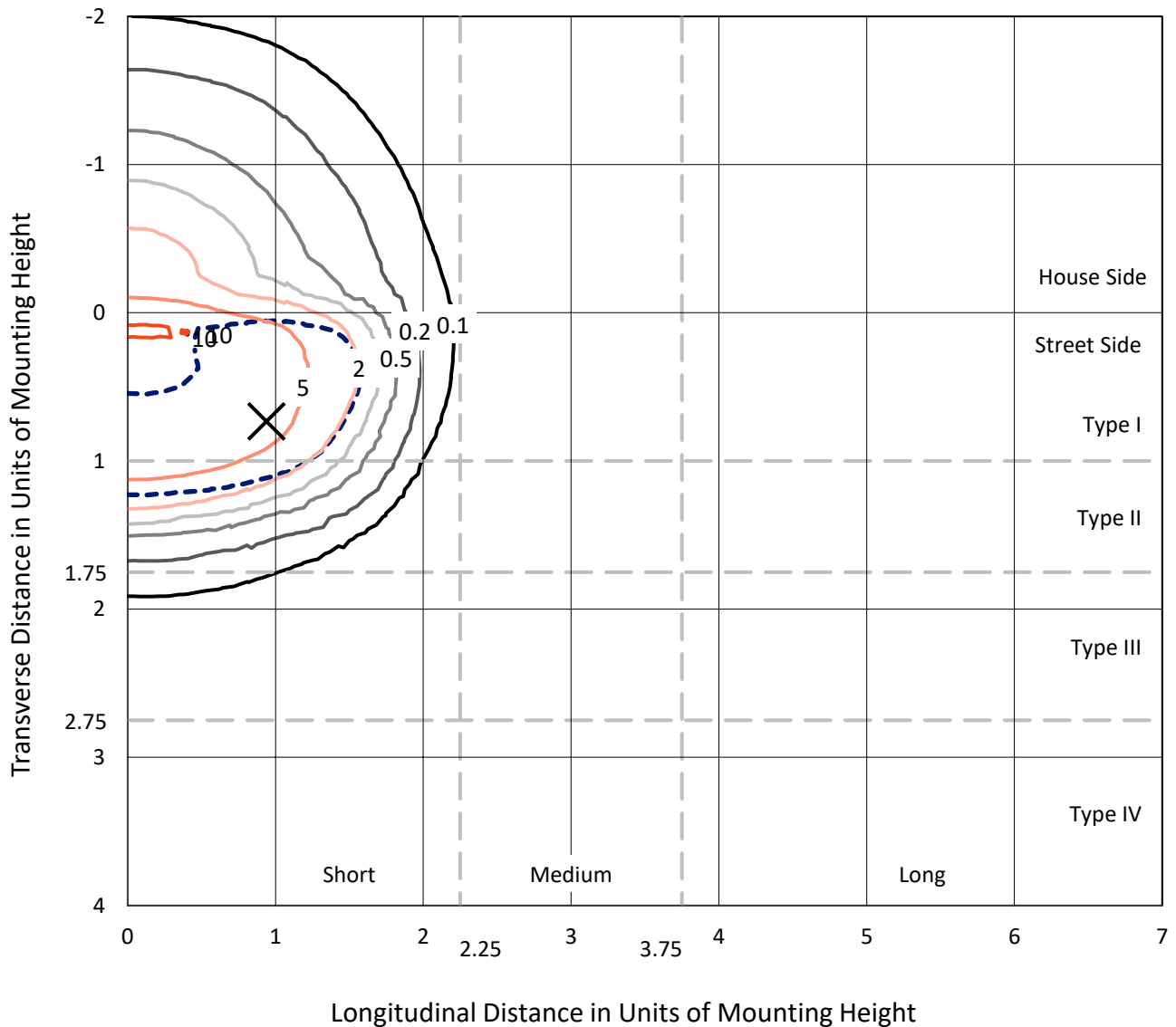
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

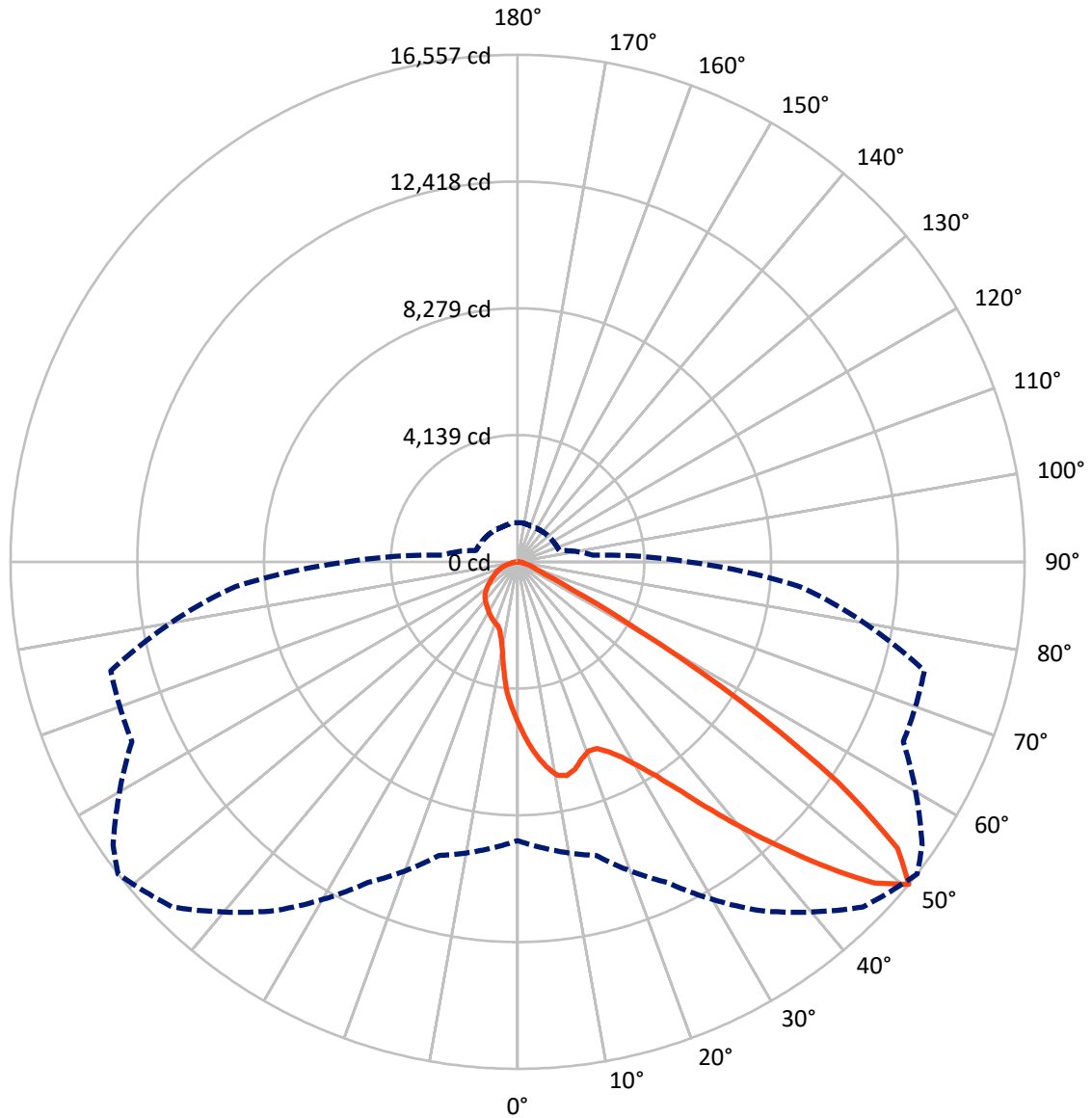
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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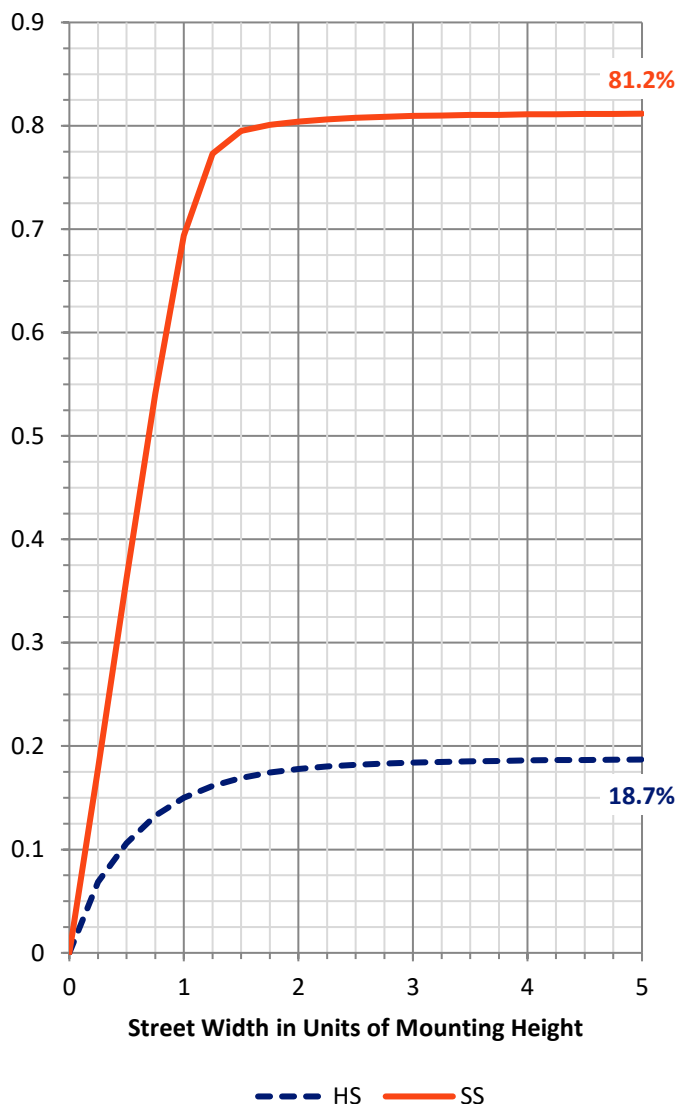
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3537.7	0.0	3537.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	15282.3	0.0	15282.3
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	18820.0	0.0	18820.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.0	2.6
10°-20°	1310.5	7.0
20°-30°	2207.6	11.7
30°-40°	3704.5	19.7
40°-50°	5666.9	30.1
50°-60°	4131.7	22.0
60°-70°	919.5	4.9
70°-80°	331.7	1.8
80°-90°	58.7	0.3
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°	18820.0	100.0
0°-180°	18820.0	100.0

**Coefficient of Utilization**

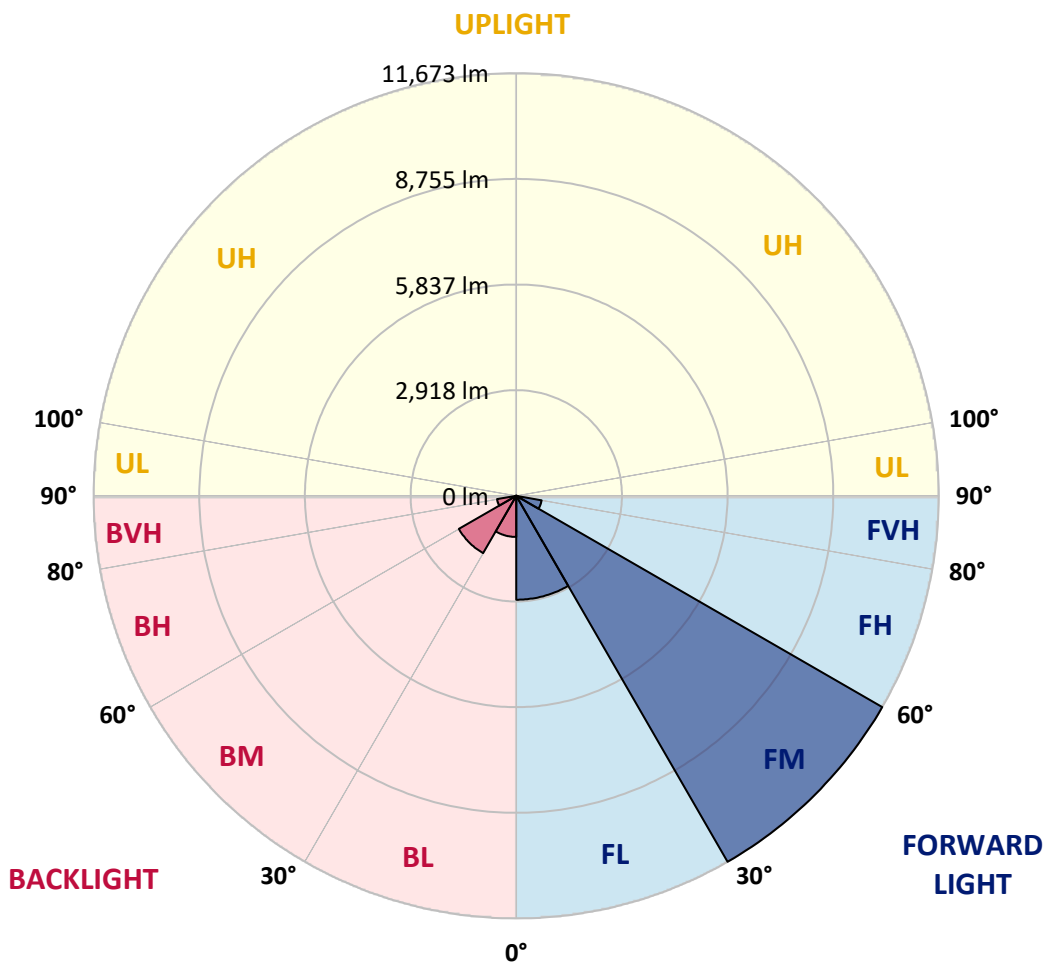


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2870.7	15.3			
FM (30°-60°)	11673.1	62.0			
FH (60°-80°)	712.2	3.8			G1/1800
FVH (80°-90°)	26.3	0.1			G1/100
BL (0°-30°)	1136.4	6.0	B3/2500		
BM (30°-60°)	1829.9	9.7	B2/2500		
BH (60°-80°)	539.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	32.4	0.2			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°	52°	55°	65°	75°	85°
0°	5305.0	5305.0	5305.0	5305.0	5305.0	5305.0	5305.0	5305.0	5305.0	5305.0	5305.0
2.5°	6246.3	6126.1	6139.7	6053.5	5960.5	5933.3	5838.0	5747.3	5679.3	5534.1	5400.3
5°	6826.9	6790.6	6736.2	6668.2	6597.9	6425.5	6328.0	6214.5	5965.1	5740.5	5518.2
7.5°	6910.8	6904.0	6933.5	6933.5	6958.5	6892.7	6754.4	6675.0	6409.6	6044.4	5631.6
10°	6321.1	6341.6	6484.4	6670.4	6929.0	7108.2	7085.5	7065.1	6774.8	6275.8	5765.5
12.5°	5851.7	5806.3	5890.2	6049.0	6436.8	6870.0	7162.6	7164.9	7090.0	6645.5	5863.0
15°	5586.3	5618.0	5640.7	5715.6	6008.2	6509.4	7024.3	7176.2	7505.1	6906.3	6017.2
17.5°	5756.4	5649.8	5645.3	5663.4	5813.1	6189.6	6768.0	7028.8	7731.9	7242.0	6207.7
20°	5978.7	5976.4	5912.9	5890.2	5887.9	6223.6	6600.1	6953.9	7852.1	7677.5	6400.5
22.5°	6368.8	6368.8	6264.4	6214.5	6107.9	6382.4	6622.8	6863.2	8051.7	7976.8	6493.5
25°	7022.0	6915.4	6736.2	6613.7	6552.5	6650.0	6863.2	7078.7	8226.3	8294.4	6686.3
27.5°	7625.3	7457.5	7369.0	7158.1	7076.4	7019.7	7214.8	7432.5	8430.5	8788.8	6790.6
30°	8310.3	8280.8	8122.0	7849.8	7648.0	7543.6	7722.8	7938.3	8804.7	9294.6	7031.1
32.5°	9535.0	9267.4	9051.9	8718.5	8389.6	8167.4	8344.3	8487.2	9426.2	9823.1	7294.2
35°	10857.3	10771.1	10399.2	9798.1	9294.6	9095.0	9199.3	9305.9	10149.7	10630.5	7736.4
37.5°	12156.9	12039.0	11732.8	11227.0	10614.6	10208.6	10283.5	10408.2	10961.6	11719.2	8276.2
40°	13091.4	12946.2	12792.0	12717.1	12109.3	11553.6	11510.5	11542.3	12059.4	12739.8	8875.0
42.5°	13159.4	13338.6	13386.2	13687.9	13545.0	13089.1	12823.7	12830.5	13107.3	13749.1	9480.6
45°	13016.5	12851.0	13202.5	14025.8	14497.6	14710.8	14264.0	14207.3	13755.9	14334.3	9782.2
47.5°	11517.3	11562.7	12156.9	13458.8	14821.9	15774.5	15670.2	15481.9	14102.9	14313.9	9734.6
50°	9104.1	9378.5	9929.7	11551.3	13914.7	15942.4	16557.0	16121.5	13896.5	13751.4	9249.2
52.5°	6062.6	6176.0	6538.9	8632.3	11188.5	14250.4	15536.4	15636.2	13706.0	13014.3	8634.6
55°	2699.0	2689.9	3200.3	4508.9	7019.7	10843.7	12694.5	13302.3	12973.4	12263.5	8035.8
57.5°	1143.1	1181.7	1390.3	1948.3	3452.0	6543.4	8600.6	9133.6	9977.3	10070.3	6164.6
60°	773.4	778.0	834.7	975.3	1444.8	3073.3	4511.2	5150.8	5754.1	5713.3	3270.6
62.5°	607.8	623.7	666.8	723.5	857.3	1394.9	2018.6	2374.7	2413.2	2029.9	1240.6
65°	519.4	521.7	564.8	612.4	671.4	812.0	973.0	991.2	1002.5	966.2	911.8
67.5°	428.7	433.2	467.2	521.7	576.1	621.5	666.8	689.5	741.7	843.7	830.1
70°	340.2	347.0	376.5	421.9	471.8	499.0	555.7	576.1	623.7	703.1	734.9
72.5°	258.6	260.8	285.8	317.5	362.9	390.1	437.7	460.4	492.2	560.2	589.7
75°	186.0	192.8	210.9	226.8	233.6	251.8	297.1	322.1	367.4	396.9	399.2
77.5°	97.5	102.1	106.6	106.6	129.3	163.3	192.8	206.4	238.1	260.8	249.5
80°	38.6	40.8	52.2	70.3	90.7	117.9	138.4	145.2	172.4	186.0	192.8
82.5°	22.7	24.9	34.0	49.9	65.8	83.9	99.8	106.6	124.7	140.6	145.2
85°	11.3	13.6	20.4	31.8	43.1	52.2	49.9	47.6	47.6	45.4	47.6
87.5°	4.5	4.5	6.8	6.8	6.8	9.1	11.3	11.3	11.3	13.6	13.6
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°	5305.0	5305.0	5305.0	5305.0	5305.0	5305.0	5305.0	5305.0	5305.0	5305.0	5305.0
2.5°	5311.9	5221.1	5137.2	4983.0	4815.1	4767.5	4572.5	4502.1	4452.2	4393.3	4375.1
5°	5339.1	5218.9	4949.0	4638.2	4391.0	4073.5	3864.8	3640.3	3477.0	3436.1	3424.8
7.5°	5395.8	5189.4	4724.4	4254.9	3749.1	3318.2	2989.3	2812.4	2655.9	2646.9	2631.0
10°	5459.3	5100.9	4479.5	3742.3	3095.9	2696.8	2499.4	2422.3	2383.8	2374.7	2370.1
12.5°	5511.4	5082.8	4205.0	3243.4	2633.2	2392.8	2333.9	2327.1	2342.9	2347.5	2356.5
15°	5534.1	5010.2	3873.9	2796.5	2345.2	2256.7	2281.7	2308.9	2320.2	2349.7	2327.1
17.5°	5577.2	4917.2	3465.6	2442.7	2184.2	2200.0	2243.1	2274.9	2293.0	2313.4	2284.0
20°	5599.9	4833.3	3082.3	2231.8	2127.5	2156.9	2215.9	2240.9	2263.5	2272.6	2238.6
22.5°	5579.5	4660.9	2744.4	2061.7	2073.0	2111.6	2163.8	2191.0	2177.4	2141.1	2120.7
25°	5525.1	4418.2	2392.8	1952.8	1995.9	2064.0	2104.8	2084.4	2059.4	2039.0	2032.2
27.5°	5522.8	4121.1	2138.8	1853.0	1930.1	2023.1	2009.5	1991.4	2002.7	1986.8	1968.7
30°	5534.1	3833.1	1930.1	1796.3	1882.5	1927.9	1943.7	1925.6	1939.2	1909.7	1918.8
32.5°	5475.2	3551.8	1794.1	1730.5	1825.8	1823.5	1875.7	1889.3	1857.6	1796.3	1805.4
35°	5500.1	3325.0	1678.4	1701.1	1762.3	1762.3	1803.1	1787.2	1703.3	1667.0	1676.1
37.5°	5672.5	3102.7	1621.7	1660.2	1701.1	1719.2	1705.6	1637.6	1617.1	1617.1	1621.7
40°	5835.8	2912.2	1587.7	1651.2	1644.4	1655.7	1555.9	1562.7	1562.7	1565.0	1553.6
42.5°	5980.9	2782.9	1560.4	1596.7	1608.1	1549.1	1487.9	1481.1	1496.9	1494.7	1485.6
45°	6033.1	2676.3	1521.9	1535.5	1544.6	1447.0	1417.6	1403.9	1422.1	1428.9	1438.0
47.5°	5833.5	2587.9	1478.8	1451.6	1433.4	1369.9	1331.4	1306.4	1329.1	1367.7	1376.7
50°	5577.2	2472.2	1410.7	1358.6	1320.0	1292.8	1265.6	1240.6	1256.5	1283.7	1276.9
52.5°	5198.4	2290.8	1324.6	1270.1	1204.4	1211.2	1186.2	1172.6	1181.7	1181.7	1174.9
55°	4658.6	1882.5	1179.4	1140.8	1086.4	1104.6	1109.1	1090.9	1072.8	1088.7	1075.1
57.5°	3179.9	1329.1	1052.4	1052.4	998.0	1022.9	1020.6	977.5	934.5	939.0	929.9
60°	1839.4	1059.2	970.7	961.7	905.0	925.4	929.9	900.4	834.7	839.2	830.1
62.5°	1045.6	905.0	848.3	834.7	823.3	841.5	841.5	802.9	746.2	750.7	741.7
65°	889.1	839.2	757.5	755.3	750.7	755.3	737.1	696.3	646.4	626.0	628.3
67.5°	807.4	775.7	696.3	675.9	662.3	660.0	626.0	587.4	564.8	546.6	544.3
70°	707.6	682.7	623.7	596.5	582.9	551.1	517.1	492.2	460.4	451.3	460.4
72.5°	560.2	557.9	535.3	505.8	476.3	451.3	421.9	387.8	358.4	351.6	335.7
75°	387.8	392.4	396.9	392.4	367.4	335.7	301.7	274.4	238.1	217.7	213.2
77.5°	254.0	260.8	267.6	258.6	242.7	213.2	190.5	156.5	129.3	113.4	111.1
80°	186.0	195.1	199.6	192.8	174.6	152.0	127.0	99.8	79.4	65.8	65.8
82.5°	142.9	152.0	156.5	145.2	127.0	108.9	90.7	70.3	54.4	43.1	40.8
85°	49.9	47.6	56.7	59.0	70.3	65.8	54.4	40.8	31.8	22.7	20.4
87.5°	13.6	13.6	15.9	15.9	13.6	11.3	11.3	11.3	9.1	6.8	6.8
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)