

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: P647519

Luminaire Tested: **GALN-SA6D-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21844.9 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

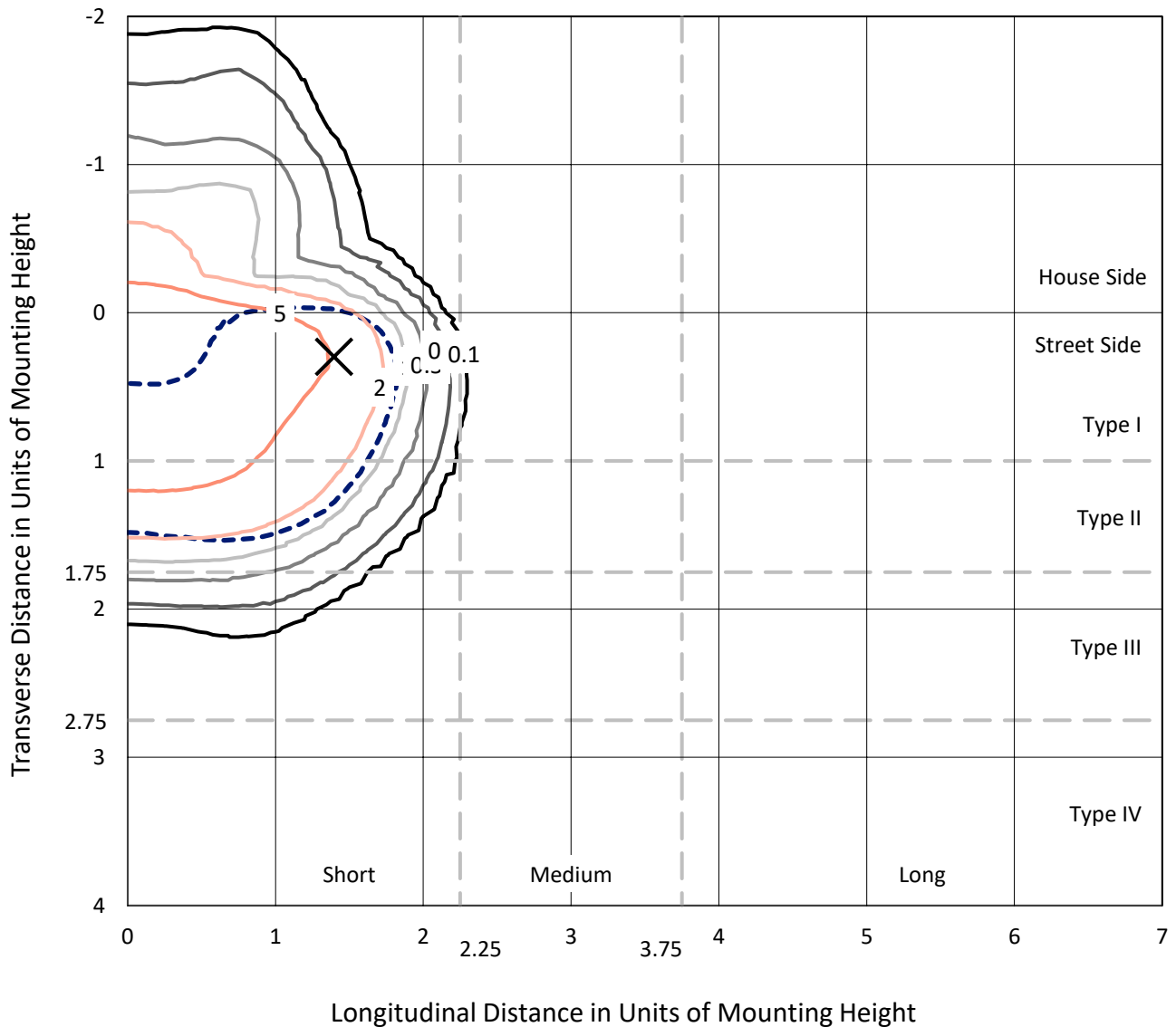
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

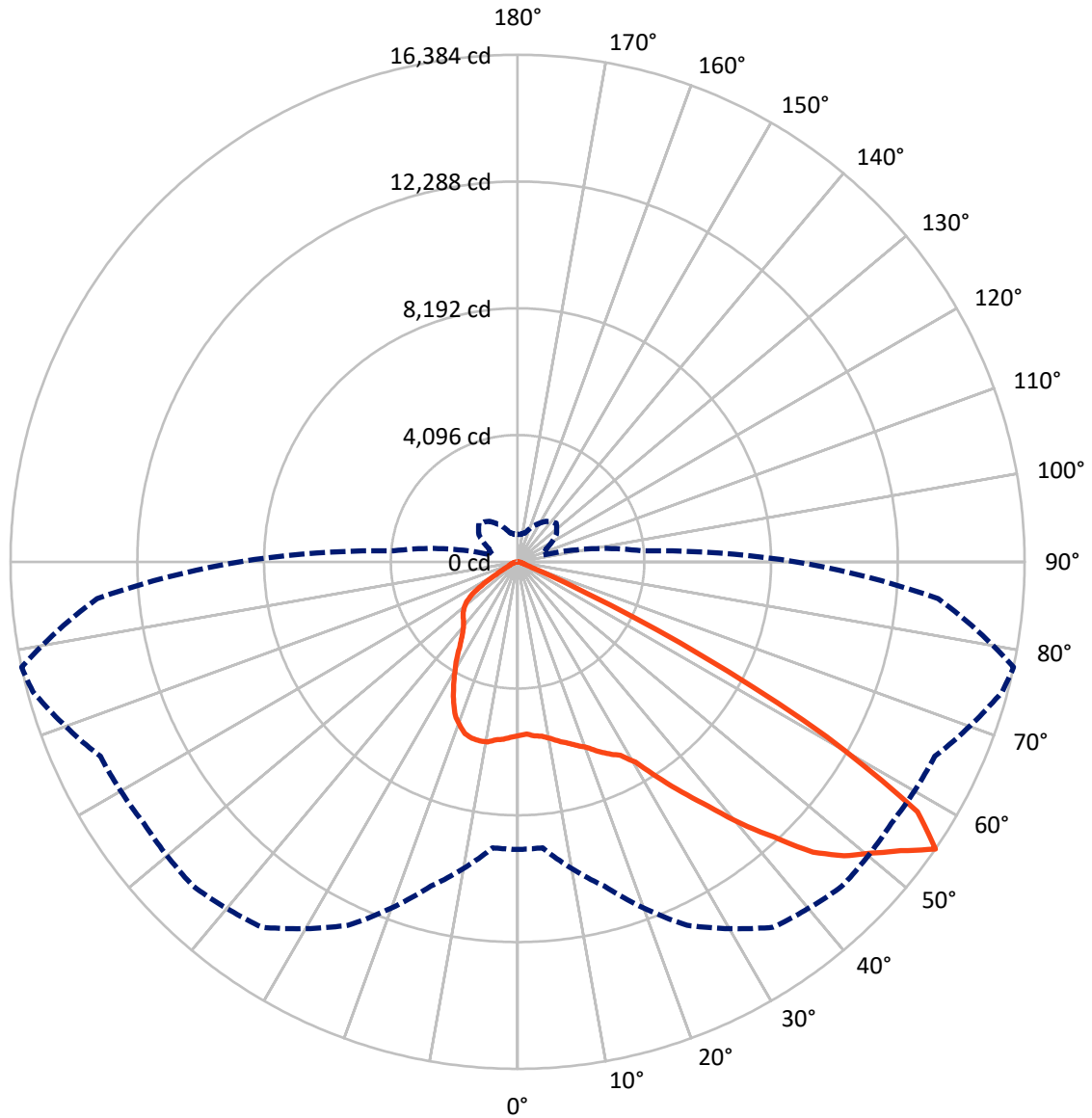
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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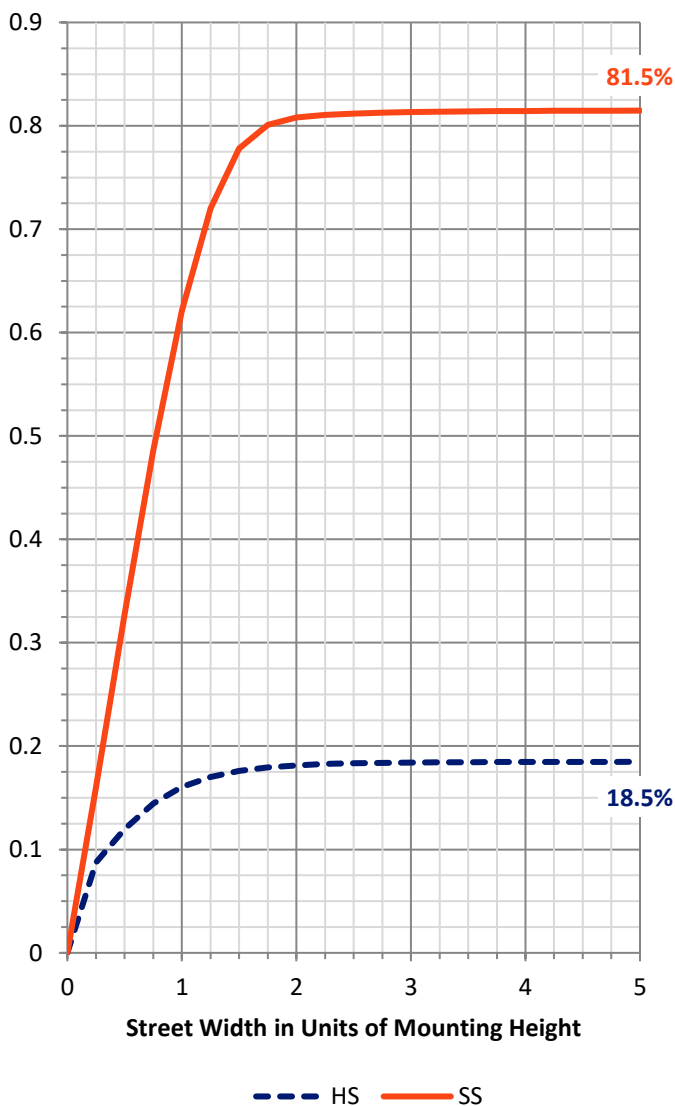
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4057.5	0.0	4057.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17787.5	0.0	17787.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	21844.9	0.0	21844.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.8	2.3
10°-20°	1325.4	6.1
20°-30°	2323.1	10.6
30°-40°	3830.6	17.5
40°-50°	5574.0	25.5
50°-60°	6315.9	28.9
60°-70°	1805.8	8.3
70°-80°	140.2	0.6
80°-90°	29.2	0.1
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°	21844.9	100.0
0°-180°	21844.9	100.0

Coefficient of Utilization

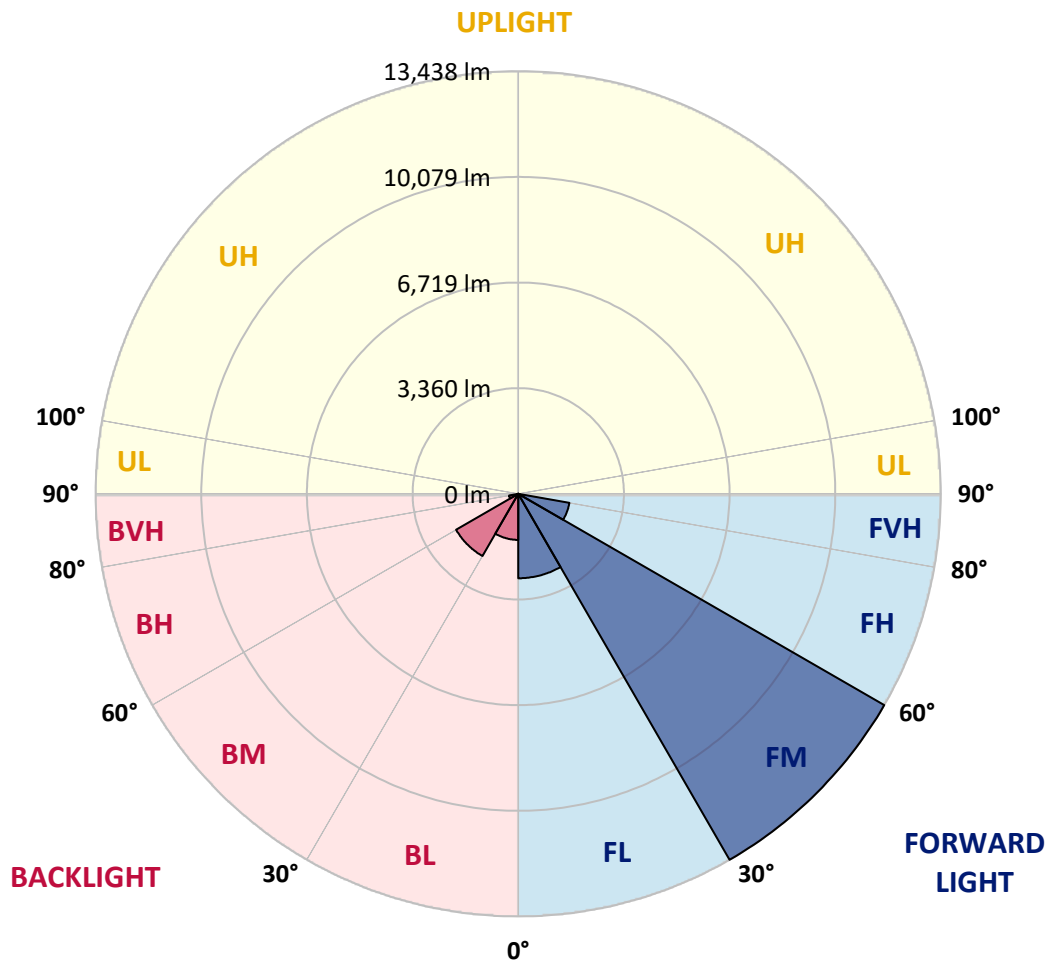


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2685.4	12.3			
FM (30°-60°)	13438.0	61.5			
FH (60°-80°)	1649.9	7.6			G1/1800
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	1463.9	6.7	B3/2500		
BM (30°-60°)	2282.4	10.4	B2/2500		
BH (60°-80°)	296.2	1.4	B1/500		G1/500
BVH (80°-90°)	15.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5616.3	5616.3	5616.3	5616.3	5616.3	5616.3	5616.3	5616.3	5616.3	5616.3	5616.3
2.5°	5280.5	5331.2	5339.0	5401.5	5397.6	5503.1	5534.3	5538.2	5608.6	5573.4	5663.2
5°	5132.0	5104.7	5092.9	5202.3	5233.6	5327.3	5405.4	5452.3	5596.8	5647.6	5741.3
7.5°	4999.2	4999.2	5007.1	5104.7	5092.9	5214.1	5296.1	5440.6	5651.5	5694.4	5807.7
10°	4870.3	4823.5	4882.1	4983.6	5069.5	5124.3	5296.1	5432.8	5678.9	5803.8	5960.0
12.5°	4803.9	4827.4	4835.2	4909.4	5003.1	5167.2	5260.9	5487.4	5874.1	5948.3	6116.2
15°	5221.9	5175.0	5061.7	4995.3	5073.4	5151.6	5385.9	5616.3	5975.7	6081.1	6268.6
17.5°	5706.2	5667.1	5573.4	5393.7	5218.0	5362.5	5546.1	5756.9	6085.0	6241.2	6518.6
20°	6338.9	6276.4	6182.6	5831.2	5678.9	5522.6	5717.9	5967.9	6264.7	6405.3	6690.4
22.5°	7092.6	7092.6	6881.8	6456.1	6139.7	5991.3	6073.3	6217.8	6463.9	6655.3	6936.4
25°	7877.7	7854.3	7662.9	7221.5	6686.5	6510.7	6604.4	6706.0	6772.4	6877.9	7065.3
27.5°	8776.0	8639.3	8397.2	7908.9	7436.4	7096.6	7198.1	7108.3	7026.3	7081.0	7350.5
30°	9385.3	9471.2	9162.7	8694.0	8248.7	7869.9	7889.4	7811.3	7436.4	7514.5	7674.7
32.5°	10018.0	10072.7	9900.9	9643.1	9197.8	8756.5	8596.3	8530.0	8248.7	8283.9	8127.7
35°	10545.3	10650.8	10498.4	10385.2	10256.3	9900.9	9459.5	9674.4	9221.2	9135.3	8729.1
37.5°	11029.6	10998.3	11178.0	11060.8	11033.5	10783.6	10299.2	10342.2	10037.5	10018.0	9549.3
40°	11463.1	11471.0	11717.0	11771.7	11662.3	11217.0	10514.0	10853.9	11099.9	11123.3	10521.9
42.5°	11822.4	11927.9	12138.8	12580.1	12416.1	11674.1	10736.7	11107.7	12021.6	12166.1	11443.6
45°	12134.9	12349.7	12611.4	13005.9	12912.1	12322.4	11291.3	11631.1	13005.9	13384.7	12310.6
47.5°	12154.4	12435.6	12720.8	13306.6	13423.8	12670.0	11865.4	12459.1	13787.0	14197.0	12943.4
50°	12076.3	12224.7	12794.9	13431.6	13697.2	13236.3	12670.0	13154.2	14544.7	14802.5	13263.6
52.5°	11150.6	11263.9	12408.3	13548.7	14189.3	13876.8	13736.2	14122.9	15318.0	15509.4	13564.4
55°	9295.5	9276.0	10850.0	12959.0	14415.8	14825.9	14740.0	14876.7	16212.4	16384.3	13638.6
57.5°	6358.4	6713.8	8073.0	10791.3	13029.3	14603.3	14693.1	14466.6	15169.6	15236.0	11888.8
60°	3429.1	3577.6	4671.1	7202.0	9920.4	11900.6	12134.9	11724.8	11670.1	11482.6	8487.0
62.5°	1363.0	1437.3	2058.3	3565.9	5405.4	7233.3	7737.1	7569.2	7209.9	6717.7	4393.9
65°	648.3	695.2	1023.3	1667.7	2398.1	3015.2	3519.0	3675.2	2710.5	2441.0	1449.0
67.5°	441.4	476.5	746.0	953.0	855.3	894.4	1163.9	1081.9	636.7	542.9	402.3
70°	335.9	359.3	597.6	648.3	382.7	269.5	300.8	281.2	261.7	265.6	261.7
72.5°	238.3	257.8	437.5	382.7	168.0	125.0	160.1	191.4	191.4	191.4	187.5
75°	144.5	164.0	253.8	148.4	66.4	66.4	101.6	128.9	136.7	140.6	132.8
77.5°	74.2	93.7	85.9	43.0	43.0	50.7	74.2	89.8	97.6	97.6	93.7
80°	15.7	15.7	15.7	23.4	43.0	54.7	74.2	82.0	93.7	93.7	85.9
82.5°	0.0	3.9	11.7	23.4	39.1	50.7	70.3	82.0	93.7	97.6	89.8
85°	0.0	3.9	7.8	15.7	27.3	31.2	27.3	23.4	23.4	23.4	23.4
87.5°	0.0	0.0	3.9	3.9	3.9	7.8	7.8	7.8	7.8	7.8	7.8
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°	5616.3	5616.3	5616.3	5616.3	5616.3	5616.3	5616.3	5616.3	5616.3	5616.3	5616.3
2.5°	5671.0	5682.7	5663.2	5659.3	5643.7	5690.5	5577.3	5550.0	5620.2	5553.8	5569.5
5°	5745.3	5772.6	5737.4	5678.9	5592.9	5460.1	5346.9	5198.4	5128.1	5077.4	5069.5
7.5°	5799.9	5819.4	5784.3	5596.8	5339.0	5003.1	4753.2	4569.6	4425.1	4382.1	4311.8
10°	6022.5	6026.4	5850.7	5436.7	4932.8	4491.5	4108.8	3827.5	3683.1	3593.2	3554.1
12.5°	6171.0	6163.1	5807.7	5120.4	4448.5	3862.7	3425.2	3085.5	2952.7	2909.7	2882.4
15°	6358.4	6315.4	5706.2	4796.2	3823.6	3191.0	2796.5	2562.1	2550.4	2523.1	2550.4
17.5°	6506.8	6385.8	5557.7	4206.4	3226.0	2628.5	2370.8	2386.3	2417.6	2444.9	2448.8
20°	6749.0	6499.1	5218.0	3690.8	2671.4	2253.6	2249.6	2320.0	2398.1	2429.3	2460.6
22.5°	6932.5	6545.9	4854.8	3140.1	2218.4	2101.3	2167.7	2273.1	2331.7	2362.9	2409.8
25°	6998.9	6417.0	4370.5	2589.5	1999.7	2030.9	2132.5	2202.8	2277.0	2312.1	2292.6
27.5°	7065.3	6350.6	3792.4	2132.5	1882.6	1984.0	2070.0	2140.3	2163.7	2210.6	2241.9
30°	7225.4	6120.2	3272.9	1843.5	1823.9	1952.8	2015.3	2038.8	2101.3	2128.6	2128.6
32.5°	7354.3	6030.4	2722.3	1706.8	1816.2	1968.5	1976.3	1976.3	1984.0	1964.5	1956.7
35°	7619.9	5721.8	2230.1	1624.7	1812.3	1972.4	1991.9	1925.5	1745.9	1675.5	1656.0
37.5°	7948.0	5522.6	1866.9	1605.2	1839.6	2019.2	2050.4	1800.5	1566.2	1452.9	1433.4
40°	8346.4	5382.0	1628.6	1597.4	1902.1	2128.6	2034.9	1702.9	1398.2	1234.2	1226.4
42.5°	8811.2	5253.1	1468.5	1593.5	1980.2	2241.9	2019.2	1620.9	1226.4	1117.0	1132.6
45°	9182.2	5182.8	1359.1	1566.2	2007.5	2308.3	2030.9	1476.3	1156.1	1085.8	1093.6
47.5°	9471.2	5034.4	1269.3	1519.3	2003.6	2331.7	1925.5	1417.8	1120.9	1140.4	1160.0
50°	9479.1	4835.2	1156.1	1417.8	1945.1	2288.7	1804.4	1363.0	1113.1	1195.2	1234.2
52.5°	9373.6	4554.0	1035.0	1273.2	1808.3	2140.3	1695.0	1339.6	1078.0	1070.1	1117.0
55°	8998.6	4026.7	831.9	1031.1	1527.1	1765.4	1597.4	1296.6	972.5	882.7	890.5
57.5°	7272.3	2886.3	613.2	738.1	1081.9	1292.8	1441.2	1277.2	874.8	749.9	753.8
60°	4503.2	1636.5	449.1	503.9	667.9	785.0	1167.8	1187.3	781.1	632.7	624.9
62.5°	2312.1	808.4	347.6	355.4	410.1	460.9	800.7	996.0	706.9	601.5	601.5
65°	773.3	398.4	304.7	273.4	273.4	285.1	484.3	691.3	597.6	503.9	503.9
67.5°	332.0	296.8	265.6	238.3	218.7	207.0	273.4	402.3	445.2	382.7	367.1
70°	257.8	249.9	230.4	199.2	171.9	156.2	160.1	207.0	253.8	246.0	238.3
72.5°	191.4	191.4	183.5	156.2	132.8	113.3	105.5	109.4	121.1	125.0	128.9
75°	132.8	136.7	136.7	121.1	97.6	82.0	70.3	58.6	46.9	39.1	35.2
77.5°	89.8	93.7	101.6	89.8	74.2	54.7	43.0	31.2	19.5	7.8	7.8
80°	78.1	89.8	97.6	89.8	78.1	58.6	43.0	23.4	11.7	0.0	0.0
82.5°	82.0	89.8	101.6	85.9	74.2	54.7	43.0	27.3	11.7	3.9	0.0
85°	19.5	19.5	23.4	27.3	35.2	39.1	31.2	19.5	11.7	3.9	0.0
87.5°	7.8	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9	0.0	0.0
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)