

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: P531931

Luminaire Tested: **GALN-SA7B-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21292 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

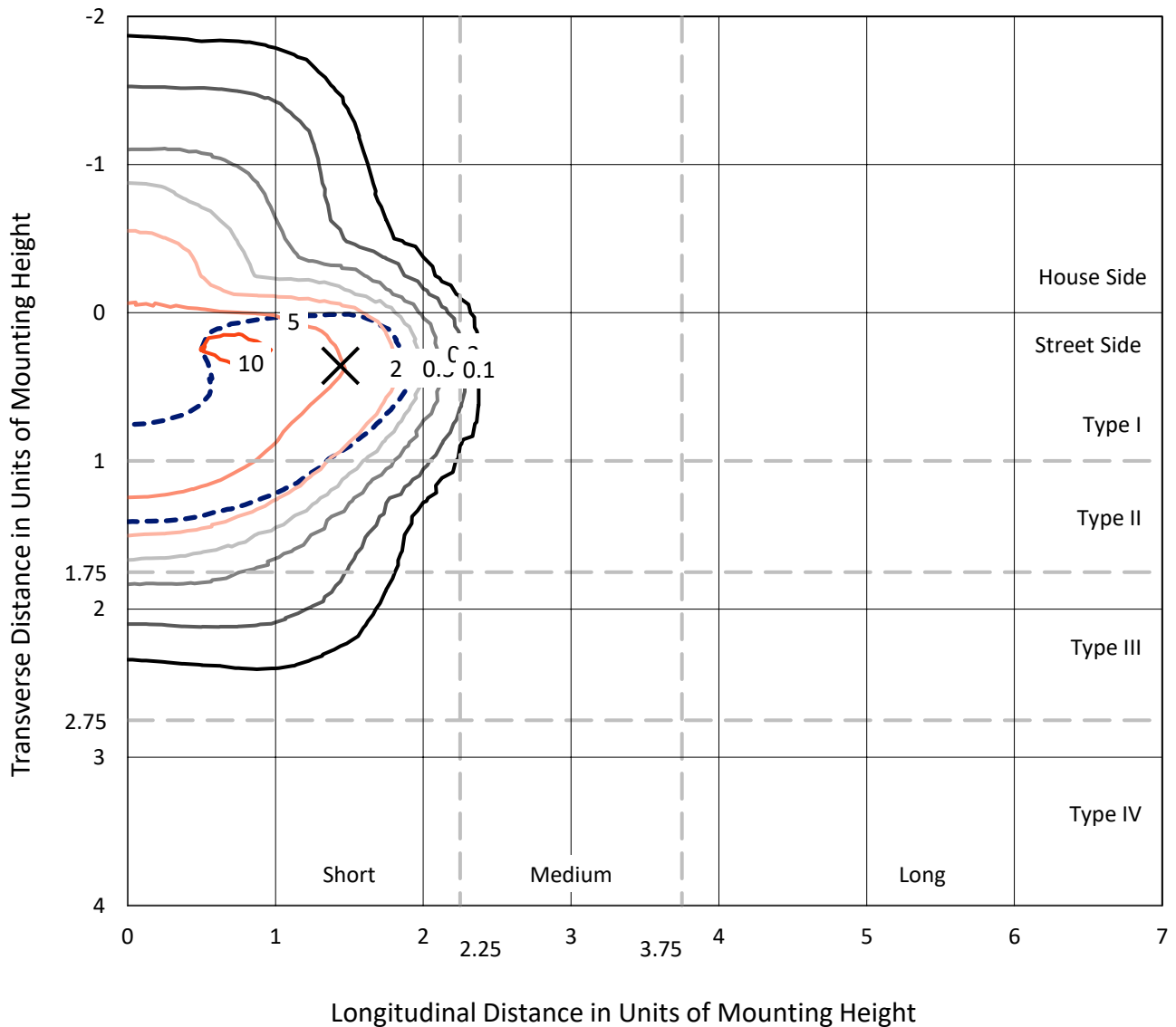
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

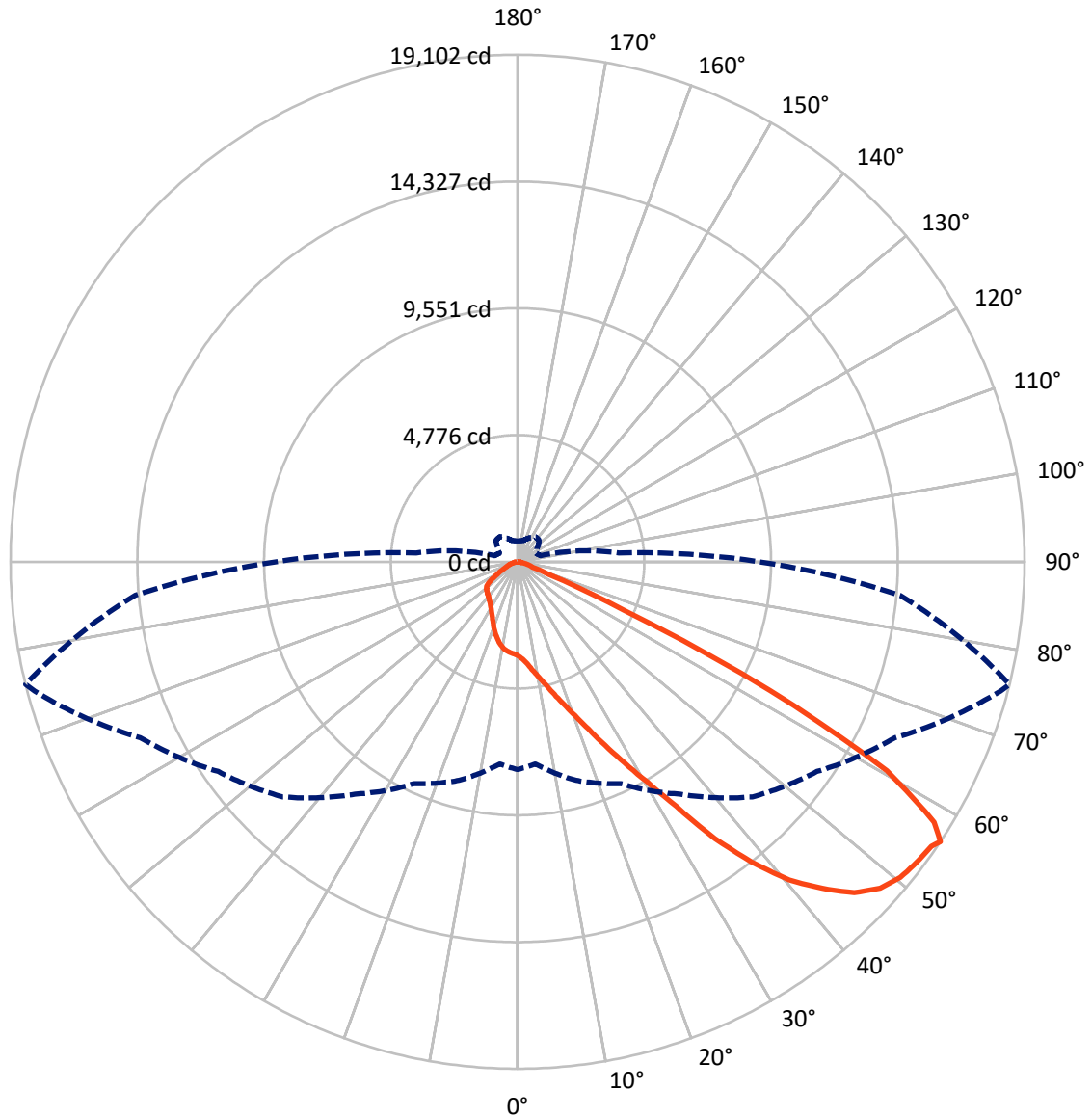
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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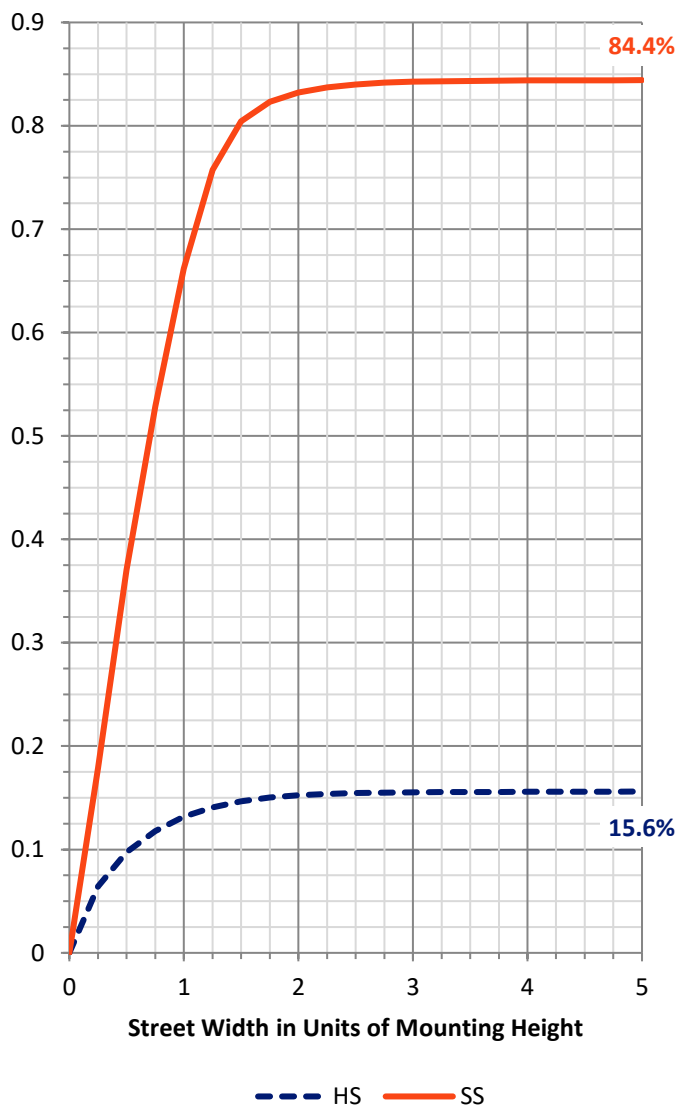
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3344.9	0.0	3344.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	17947.1	0.0	17947.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	21292.0	0.0	21292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.0	1.7
10°-20°	1147.0	5.4
20°-30°	2079.8	9.8
30°-40°	3586.6	16.8
40°-50°	5826.6	27.4
50°-60°	6141.4	28.8
60°-70°	1876.5	8.8
70°-80°	240.5	1.1
80°-90°	36.5	0.2
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°	21292.0	100.0
0°-180°	21292.0	100.0

Coefficient of Utilization

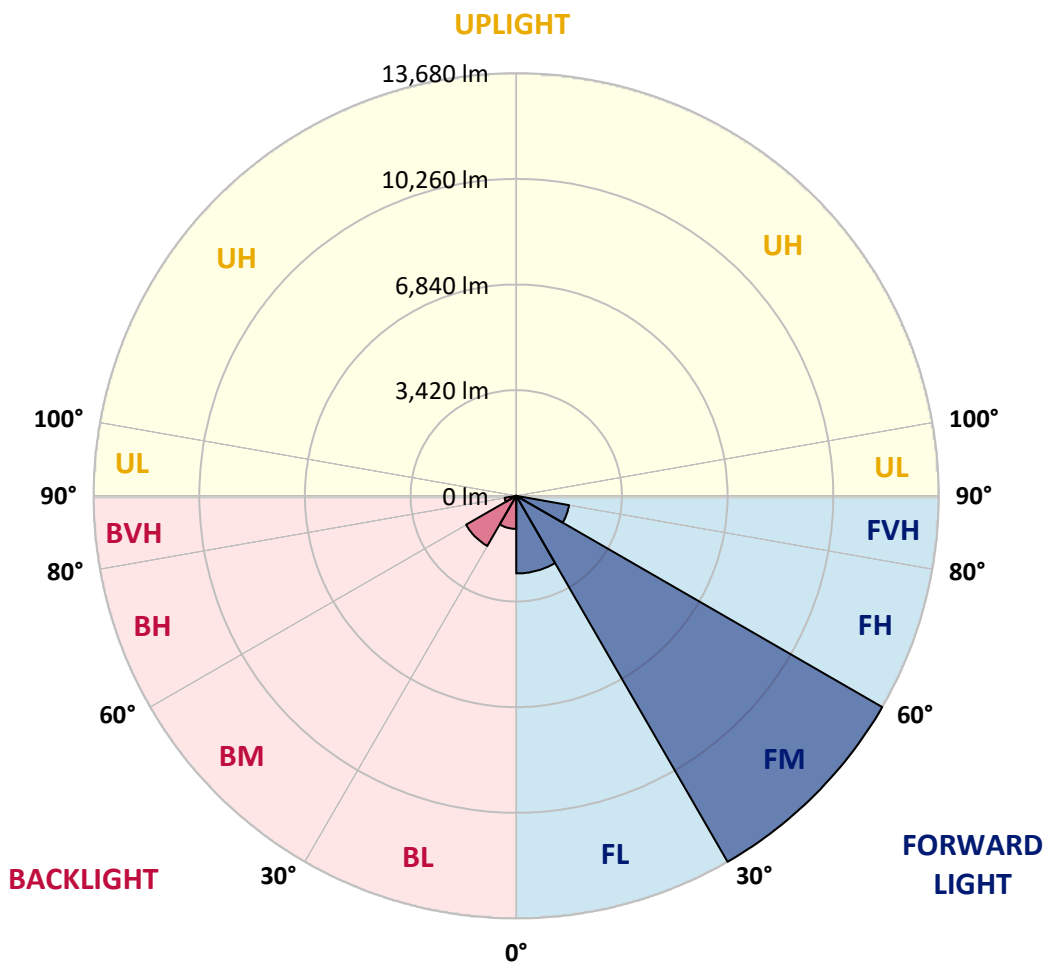


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2513.7	11.8			
FM (30°-60°)	13680.1	64.2			
FH (60°-80°)	1735.4	8.2			G1/1800
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	1070.0	5.0	B3/2500		
BM (30°-60°)	1874.6	8.8	B2/2500		
BH (60°-80°)	381.6	1.8	B1/500		G1/500
BVH (80°-90°)	18.6	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°	76°	85°
0°	3544.1	3544.1	3544.1	3544.1	3544.1	3544.1	3544.1	3544.1	3544.1	3544.1	3544.1
2.5°	4081.8	3987.6	3991.5	3983.7	3971.9	3928.7	3799.2	3779.6	3693.2	3669.7	3591.2
5°	4572.4	4490.0	4537.1	4466.4	4399.7	4360.4	4148.5	4050.4	3913.0	3862.0	3752.1
7.5°	4878.5	4839.3	4823.6	4827.5	4764.7	4666.6	4572.4	4356.5	4172.1	4132.8	3901.2
10°	5027.7	5004.1	5027.7	5015.9	5043.4	5055.1	4890.3	4760.8	4490.0	4423.2	4062.2
12.5°	5063.0	5110.1	5129.7	5180.7	5247.4	5361.3	5349.5	5172.9	4811.8	4768.6	4309.4
15°	5149.3	5188.6	5168.9	5251.4	5377.0	5569.3	5671.3	5643.8	5255.3	5176.8	4595.9
17.5°	5227.8	5157.2	5223.9	5388.7	5514.3	5808.7	6056.0	6169.8	5738.0	5647.8	4858.9
20°	5333.8	5314.2	5302.4	5384.8	5608.5	6001.0	6491.6	6699.6	6279.7	6185.5	5235.7
22.5°	5655.6	5659.5	5651.7	5530.0	5690.9	6134.4	6872.3	7386.5	6927.3	6848.8	5663.5
25°	6079.5	6028.5	5989.2	5891.1	5871.5	6256.1	7256.9	8226.4	7704.4	7649.4	6126.6
27.5°	6526.9	6526.9	6409.2	6318.9	6193.3	6558.3	7610.2	9042.7	8642.4	8567.8	6530.9
30°	7013.6	7041.1	7025.4	6833.1	6754.6	6888.0	7971.2	10086.7	9717.8	9623.6	7198.1
32.5°	7731.8	7673.0	7739.7	7578.8	7347.2	7465.0	8540.3	11020.8	11115.0	10981.6	8073.3
35°	8681.6	8646.3	8603.1	8340.2	8065.4	8159.6	9344.9	12170.8	12869.4	12802.7	8956.4
37.5°	9533.3	9513.7	9478.4	9297.8	8979.9	9093.7	10259.4	13367.8	14580.6	14360.8	10204.5
40°	10428.2	10534.1	10420.3	10259.4	9969.0	10220.2	11334.8	14078.2	16021.0	15754.1	11158.2
42.5°	11640.9	11558.5	11609.5	11315.2	11158.2	11432.9	12414.1	14788.6	17139.6	16821.7	12170.8
45°	12932.2	12936.1	12798.7	12704.5	12296.4	12594.7	13077.4	15181.1	18030.5	17783.2	12936.1
47.5°	13760.3	13756.4	13905.5	14054.7	13634.7	13340.4	13528.8	15553.9	18489.7	18375.9	13214.8
50°	13630.8	13670.0	13862.4	14419.7	14639.5	14243.1	13952.6	15444.0	18697.7	18685.9	13454.2
52.5°	11856.8	11986.3	12308.1	13112.7	14219.5	14710.1	14396.1	15648.1	18799.7	18819.4	13811.3
55°	9027.0	9097.7	9709.9	10687.2	11911.7	13591.5	14219.5	15809.1	18878.2	18913.6	14243.1
56°	7830.0	7641.6	8524.6	9219.3	10683.3	12520.1	13772.1	15683.5	18831.1	19102.0	14458.9
57.5°	5910.7	5785.1	6499.5	7366.8	8775.8	10714.7	12382.7	15090.8	18513.2	18509.3	14148.9
60°	3595.1	3469.5	4019.0	4529.2	5318.1	6597.6	8367.7	12017.7	15652.1	15981.7	11456.5
62.5°	2139.0	2217.5	2759.1	3069.2	3324.3	3457.7	4329.0	7143.1	10443.9	10679.4	7107.8
65°	1424.7	1452.2	1860.4	2370.6	2484.4	1978.1	1762.2	2892.6	4529.2	4384.0	2931.8
67.5°	879.2	941.9	1248.1	1781.9	1974.2	1444.3	836.0	1079.3	1248.1	1248.1	847.8
70°	533.8	565.2	832.1	1212.8	1354.1	930.2	608.3	608.3	600.5	588.7	506.3
72.5°	255.1	274.7	423.9	624.0	635.8	490.6	471.0	514.1	502.4	498.4	420.0
75°	109.9	117.7	149.1	196.2	223.7	208.0	286.5	368.9	380.7	368.9	302.2
77.5°	35.3	39.2	54.9	70.6	74.6	90.3	121.7	153.1	176.6	164.8	149.1
80°	3.9	7.8	15.7	35.3	54.9	70.6	90.3	102.0	113.8	113.8	106.0
82.5°	3.9	3.9	15.7	31.4	51.0	66.7	86.3	98.1	113.8	117.7	109.9
85°	0.0	3.9	11.8	27.5	43.2	43.2	39.2	39.2	27.5	27.5	27.5
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°	3544.1	3544.1	3544.1	3544.1	3544.1	3544.1	3544.1	3544.1	3544.1	3544.1	3544.1
2.5°	3575.5	3567.6	3461.7	3394.9	3359.6	3289.0	3245.8	3214.4	3190.9	3163.4	3167.3
5°	3622.6	3595.1	3418.5	3296.8	3151.6	3073.1	3006.4	2951.4	2916.1	2908.3	2892.6
7.5°	3756.0	3610.8	3343.9	3124.1	2939.7	2861.2	2802.3	2767.0	2782.7	2747.4	2774.8
10°	3858.1	3642.2	3253.7	2935.7	2751.3	2692.4	2661.0	2688.5	2727.7	2712.0	2692.4
12.5°	3983.7	3673.6	3108.4	2755.2	2582.5	2539.3	2594.3	2645.3	2723.8	2755.2	2716.0
15°	4125.0	3708.9	2924.0	2547.2	2437.3	2472.6	2566.8	2657.1	2735.6	2774.8	2798.4
17.5°	4297.6	3697.2	2743.4	2382.3	2299.9	2402.0	2515.8	2598.2	2716.0	2774.8	2759.1
20°	4458.6	3657.9	2543.3	2217.5	2221.4	2315.6	2409.8	2543.3	2606.1	2684.6	2657.1
22.5°	4611.6	3587.3	2335.3	2103.7	2103.7	2248.9	2296.0	2382.3	2437.3	2476.5	2472.6
25°	4827.5	3453.8	2162.6	1993.8	2040.9	2135.1	2174.3	2201.8	2178.3	2209.7	2213.6
27.5°	4980.6	3316.4	2021.3	1895.7	1982.0	2052.7	2040.9	2025.2	1970.2	1927.1	1954.5
30°	5145.4	3155.5	1899.6	1829.0	1876.0	1938.8	1891.7	1844.7	1758.3	1687.7	1691.6
32.5°	5380.9	3081.0	1793.6	1750.5	1813.3	1821.1	1770.1	1699.4	1613.1	1546.4	1542.4
35°	5820.5	3033.9	1703.4	1699.4	1711.2	1715.1	1664.1	1577.8	1542.4	1487.5	1507.1
37.5°	6260.0	3010.3	1640.6	1624.9	1620.9	1624.9	1566.0	1483.6	1550.3	1546.4	1554.2
40°	6821.3	3116.3	1550.3	1530.7	1534.6	1534.6	1460.0	1436.5	1554.2	1566.0	1569.9
42.5°	7390.4	3249.7	1491.4	1428.6	1444.3	1444.3	1405.1	1377.6	1460.0	1381.5	1369.8
45°	7884.9	3446.0	1428.6	1326.6	1365.8	1385.5	1373.7	1326.6	1275.6	1142.1	1142.1
47.5°	8045.8	3618.7	1354.1	1228.5	1259.9	1346.2	1310.9	1212.8	1122.5	1012.6	1004.7
50°	8328.4	3807.0	1295.2	1114.6	1181.4	1287.3	1252.0	1153.9	1051.8	973.3	977.3
52.5°	8618.8	4022.9	1185.3	981.2	1063.6	1240.2	1240.2	1130.3	973.3	918.4	910.6
55°	9054.5	4015.1	989.0	804.6	949.8	1169.6	1189.2	1012.6	871.3	828.1	828.1
56°	9117.3	3834.5	890.9	753.6	898.8	1150.0	1153.9	981.2	832.1	785.0	785.0
57.5°	8646.3	3461.7	781.0	690.8	836.0	1114.6	1118.6	953.7	800.7	733.9	726.1
60°	6652.5	2343.1	651.5	616.2	757.5	1004.7	1024.4	867.4	702.5	651.5	647.6
62.5°	3756.0	1299.1	573.0	557.3	651.5	855.6	914.5	757.5	596.6	569.1	576.9
65°	1715.1	714.3	482.7	451.4	525.9	659.4	737.9	624.0	490.6	459.2	459.2
67.5°	628.0	486.7	412.1	357.2	368.9	427.8	478.8	404.3	325.8	278.7	290.4
70°	447.4	408.2	361.1	310.1	286.5	278.7	274.7	227.6	160.9	125.6	133.4
72.5°	361.1	337.5	302.2	263.0	223.7	188.4	160.9	117.7	74.6	51.0	47.1
75°	259.0	247.3	219.8	188.4	157.0	133.4	109.9	74.6	39.2	19.6	19.6
77.5°	133.4	133.4	129.5	117.7	98.1	78.5	62.8	43.2	23.5	7.8	7.8
80°	102.0	109.9	113.8	102.0	90.3	70.6	51.0	31.4	15.7	3.9	3.9
82.5°	98.1	113.8	121.7	106.0	90.3	66.7	51.0	31.4	15.7	3.9	3.9
85°	23.5	23.5	35.3	39.2	51.0	54.9	43.2	27.5	11.8	3.9	3.9
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9	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)