

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: P652513

Luminaire Tested: **GALN-SA7B-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652513
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-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 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: 19661.7 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

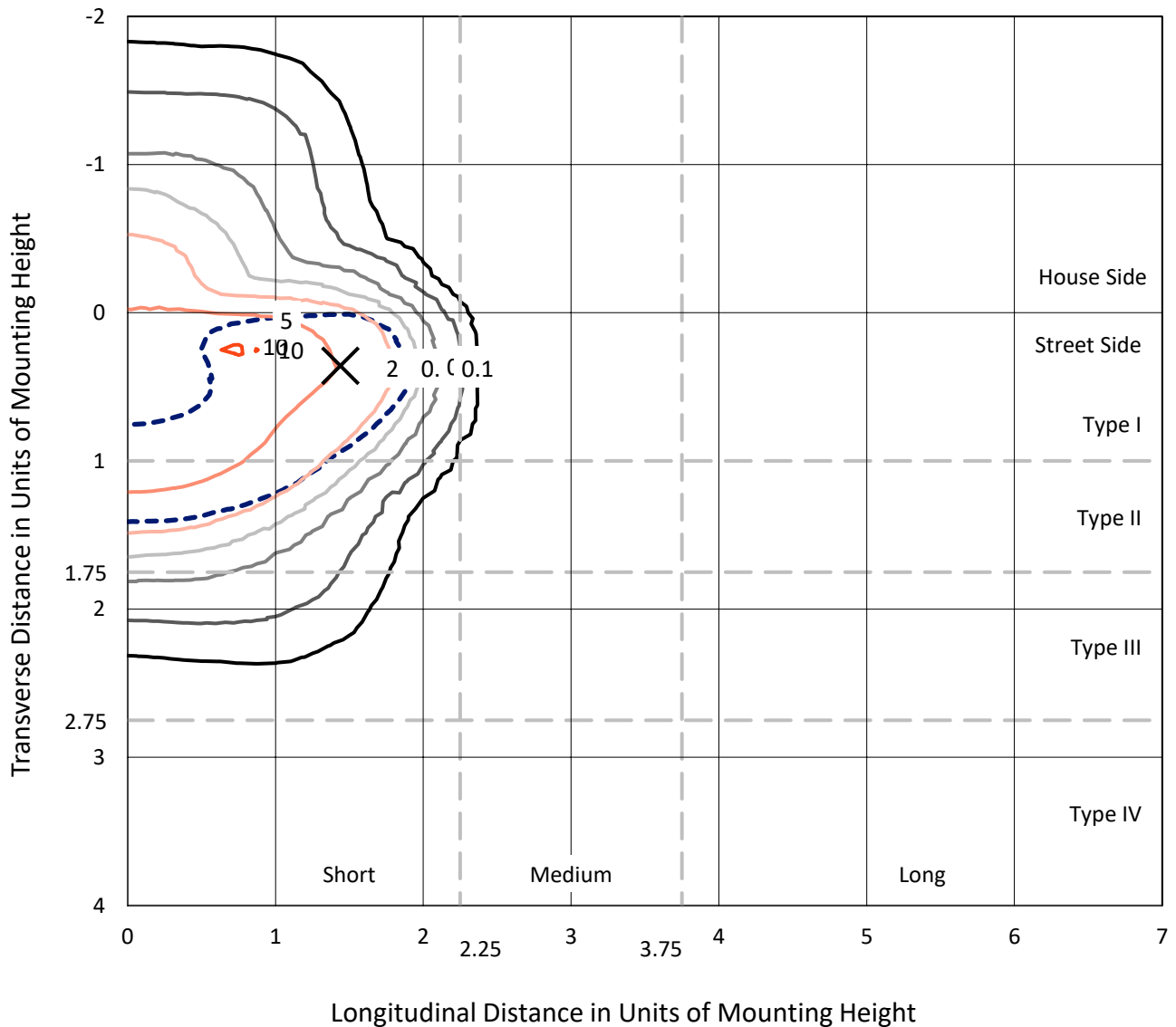
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

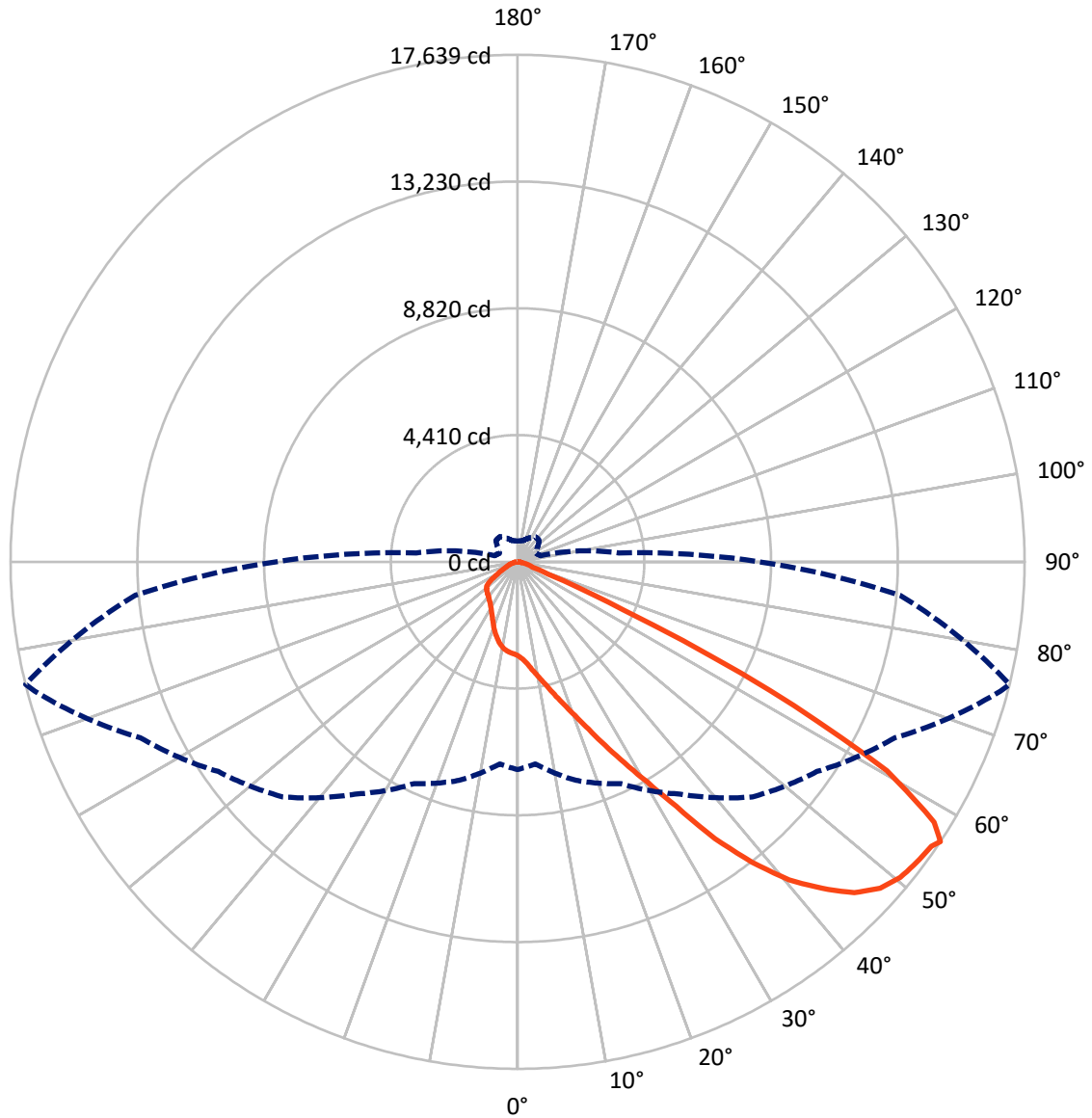
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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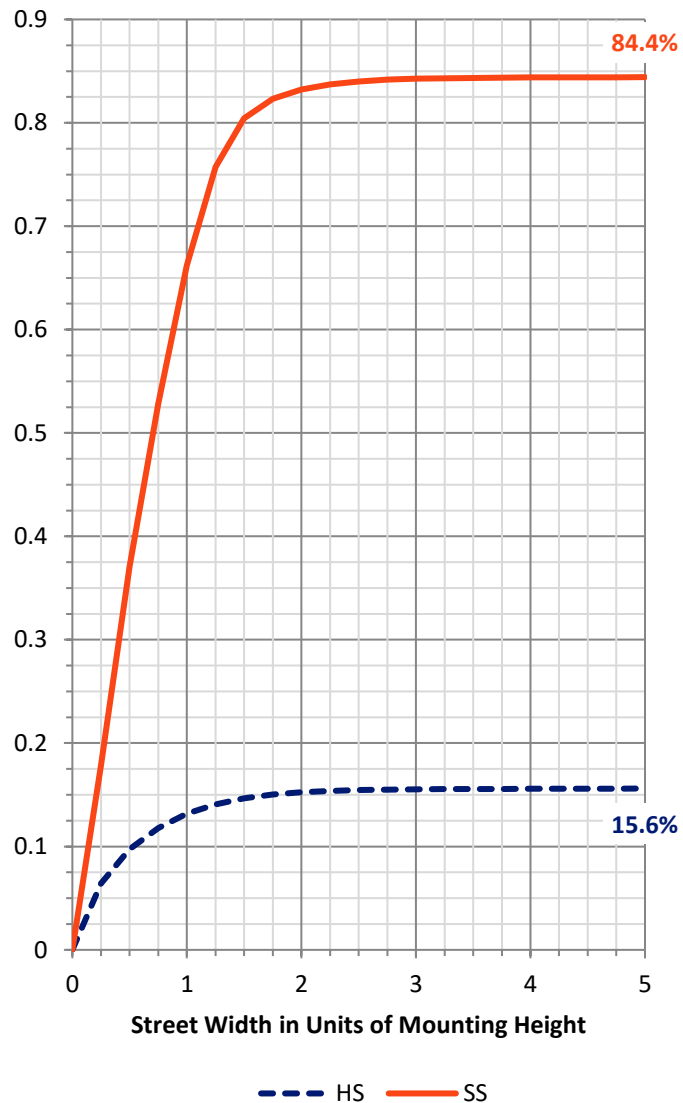
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3088.8	0.0	3088.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	16573.0	0.0	16573.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	19661.7	0.0	19661.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.7	1.7
10°-20°	1059.1	5.4
20°-30°	1920.5	9.8
30°-40°	3312.0	16.8
40°-50°	5380.5	27.4
50°-60°	5671.2	28.8
60°-70°	1732.8	8.8
70°-80°	222.1	1.1
80°-90°	33.7	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°	19661.7	100.0
0°-180°	19661.7	100.0

Coefficient of Utilization

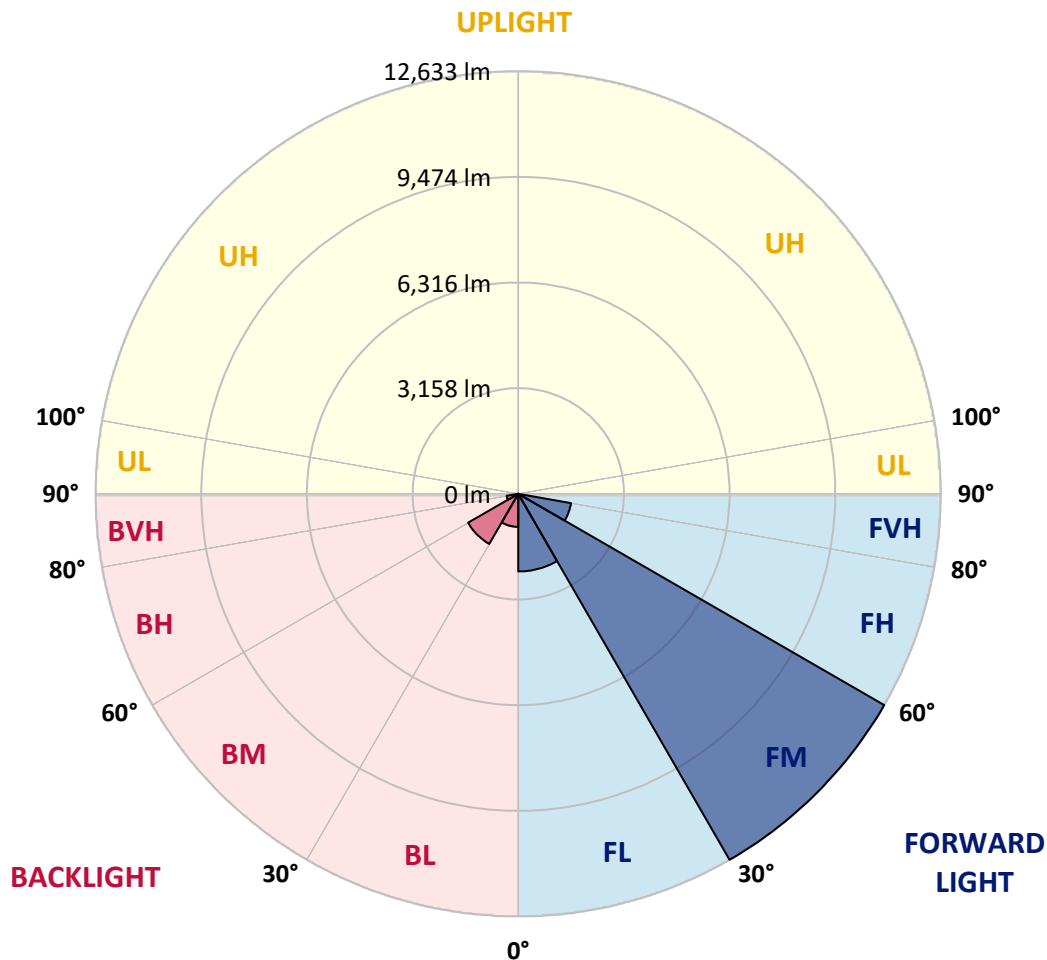


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2321.2	11.8			
FM (30°-60°)	12632.6	64.2			
FH (60°-80°)	1602.6	8.2			G1/1800
FVH (80°-90°)	16.5	0.1			G1/100
BL (0°-30°)	988.1	5.0	B2/1000		
BM (30°-60°)	1731.1	8.8	B2/2500		
BH (60°-80°)	352.4	1.8	B1/500		G1/500
BVH (80°-90°)	17.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8
2.5°	3769.3	3682.2	3685.9	3678.6	3667.8	3627.9	3508.3	3490.2	3410.4	3388.7	3316.2
5°	4222.3	4146.2	4189.7	4124.4	4062.8	4026.5	3830.8	3740.3	3613.4	3566.3	3464.8
7.5°	4505.0	4468.7	4454.3	4457.9	4399.9	4309.3	4222.3	4022.9	3852.6	3816.4	3602.5
10°	4642.7	4621.0	4642.7	4631.8	4657.2	4668.1	4515.8	4396.2	4146.2	4084.6	3751.1
12.5°	4675.3	4718.9	4736.9	4784.0	4845.7	4950.8	4939.9	4776.8	4443.3	4403.5	3979.4
15°	4755.1	4791.3	4773.2	4849.3	4965.3	5142.9	5237.1	5211.7	4852.9	4780.4	4244.0
17.5°	4827.5	4762.3	4823.9	4976.1	5092.1	5363.9	5592.2	5697.4	5298.7	5215.4	4486.8
20°	4925.4	4907.2	4896.4	4972.5	5179.1	5541.5	5994.6	6186.6	5798.9	5711.9	4834.8
22.5°	5222.6	5226.2	5219.0	5106.6	5255.2	5664.7	6346.1	6820.9	6396.9	6324.4	5229.8
25°	5614.0	5566.9	5530.7	5440.0	5421.9	5777.1	6701.3	7596.5	7114.4	7063.7	5657.5
27.5°	6027.2	6027.2	5918.5	5835.1	5719.1	6056.2	7027.5	8350.4	7980.7	7911.8	6030.8
30°	6476.6	6501.9	6487.5	6309.9	6237.4	6360.7	7360.9	9314.4	8973.7	8886.8	6646.9
32.5°	7139.8	7085.5	7147.1	6998.5	6784.7	6893.4	7886.5	10176.9	10264.0	10140.8	7455.1
35°	8016.9	7984.3	7944.4	7701.6	7447.9	7534.9	8629.4	11238.9	11884.0	11822.4	8270.6
37.5°	8803.4	8785.3	8752.6	8585.9	8292.3	8397.5	9473.9	12344.3	13464.2	13261.2	9423.2
40°	9629.7	9727.6	9622.5	9473.9	9205.7	9437.6	10466.9	13000.3	14794.3	14547.9	10303.8
42.5°	10749.6	10673.5	10720.6	10448.8	10303.8	10557.5	11463.6	13656.3	15827.2	15533.7	11238.9
45°	11942.0	11945.6	11818.7	11731.8	11354.8	11630.4	12076.1	14018.7	16649.9	16421.6	11945.6
47.5°	12706.8	12703.1	12840.8	12978.6	12590.8	12319.0	12492.9	14363.0	17074.0	16968.9	12203.0
50°	12587.2	12623.4	12800.9	13315.6	13518.6	13152.5	12884.3	14261.5	17266.1	17255.2	12424.0
52.5°	10949.0	11068.6	11365.8	12108.7	13130.8	13583.8	13293.9	14450.0	17360.3	17378.4	12753.8
55°	8335.8	8401.1	8966.5	9868.9	10999.7	12550.9	13130.8	14598.6	17432.8	17465.4	13152.5
56°	7230.4	7056.5	7871.9	8513.4	9865.3	11561.5	12717.6	14482.6	17389.3	17639.4	13351.9
57.5°	5458.2	5342.2	6001.8	6802.8	8103.9	9894.3	11434.6	13935.4	17095.8	17092.1	13065.5
60°	3319.8	3203.9	3711.2	4182.5	4910.9	6092.5	7726.9	11097.6	14453.6	14758.0	10579.3
62.5°	1975.3	2047.8	2547.9	2834.2	3069.7	3193.0	3997.6	6596.2	9644.3	9861.7	6563.6
65°	1315.6	1341.0	1717.9	2189.0	2294.2	1826.7	1627.3	2671.1	4182.5	4048.3	2707.3
67.5°	811.8	869.8	1152.5	1645.4	1823.0	1333.7	772.0	996.7	1152.5	1152.5	782.8
70°	492.9	521.9	768.3	1119.9	1250.4	858.9	561.8	561.8	554.6	543.6	467.5
72.5°	235.6	253.7	391.4	576.3	587.1	453.0	434.9	474.7	463.9	460.3	387.8
75°	101.5	108.7	137.8	181.2	206.5	192.1	264.6	340.7	351.5	340.7	279.0
77.5°	32.6	36.2	50.7	65.3	68.9	83.3	112.4	141.4	163.1	152.2	137.8
80°	3.6	7.2	14.5	32.6	50.7	65.3	83.3	94.2	105.1	105.1	97.9
82.5°	3.6	3.6	14.5	29.0	47.1	61.6	79.7	90.6	105.1	108.7	101.5
85°	0.0	3.6	10.8	25.4	39.9	39.9	36.2	36.2	25.4	25.4	25.4
87.5°	0.0	0.0	3.6	3.6	3.6	7.2	7.2	7.2	7.2	7.2	7.2
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°	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8
2.5°	3301.7	3294.4	3196.6	3135.0	3102.4	3037.2	2997.2	2968.3	2946.5	2921.1	2924.8
5°	3345.2	3319.8	3156.8	3044.4	2910.3	2837.8	2776.2	2725.4	2692.9	2685.6	2671.1
7.5°	3468.5	3334.3	3087.9	2885.0	2714.6	2642.1	2587.8	2555.1	2569.6	2537.0	2562.4
10°	3562.6	3363.3	3004.6	2711.0	2540.7	2486.2	2457.2	2482.6	2518.9	2504.4	2486.2
12.5°	3678.6	3392.3	2870.4	2544.3	2384.7	2344.9	2395.7	2442.8	2515.3	2544.3	2508.0
15°	3809.1	3425.0	2700.1	2352.2	2250.7	2283.3	2370.3	2453.6	2526.1	2562.4	2584.1
17.5°	3968.6	3414.0	2533.3	2200.0	2123.9	2218.1	2323.2	2399.3	2508.0	2562.4	2547.9
20°	4117.2	3377.8	2348.5	2047.8	2051.4	2138.3	2225.3	2348.5	2406.5	2479.0	2453.6
22.5°	4258.6	3312.6	2156.4	1942.6	1942.6	2076.7	2120.2	2200.0	2250.7	2286.9	2283.3
25°	4457.9	3189.4	1997.0	1841.1	1884.6	1971.6	2007.9	2033.2	2011.5	2040.4	2044.1
27.5°	4599.2	3062.5	1866.5	1750.5	1830.3	1895.5	1884.6	1870.1	1819.4	1779.6	1804.9
30°	4751.4	2913.9	1754.2	1688.9	1732.4	1790.4	1746.9	1703.4	1623.7	1558.5	1562.1
32.5°	4968.9	2845.0	1656.3	1616.4	1674.4	1681.7	1634.6	1569.3	1489.6	1427.9	1424.3
35°	5374.8	2801.5	1572.9	1569.3	1580.2	1583.8	1536.7	1456.9	1424.3	1373.6	1391.7
37.5°	5780.7	2779.8	1515.0	1500.4	1496.8	1500.4	1446.1	1370.0	1431.6	1427.9	1435.3
40°	6299.0	2877.6	1431.6	1413.5	1417.1	1417.1	1348.2	1326.5	1435.3	1446.1	1449.7
42.5°	6824.5	3000.9	1377.2	1319.3	1333.7	1333.7	1297.5	1272.1	1348.2	1275.7	1264.9
45°	7281.2	3182.1	1319.3	1225.0	1261.2	1279.4	1268.5	1225.0	1177.9	1054.7	1054.7
47.5°	7429.8	3341.6	1250.4	1134.4	1163.4	1243.2	1210.5	1119.9	1036.5	935.0	927.8
50°	7690.7	3515.5	1196.0	1029.3	1090.9	1188.8	1156.1	1065.5	971.3	898.9	902.5
52.5°	7958.9	3714.9	1094.6	906.1	982.2	1145.3	1145.3	1043.8	898.9	848.1	840.8
55°	8361.2	3707.6	913.3	742.9	877.1	1080.0	1098.2	935.0	804.6	764.7	764.7
56°	8419.2	3540.9	822.8	695.8	830.0	1061.9	1065.5	906.1	768.3	724.9	724.9
57.5°	7984.3	3196.6	721.2	637.9	772.0	1029.3	1032.9	880.7	739.3	677.8	670.5
60°	6143.2	2163.7	601.7	569.0	699.5	927.8	946.0	801.0	648.7	601.7	598.0
62.5°	3468.5	1199.6	529.2	514.6	601.7	790.1	844.4	699.5	550.9	525.5	532.8
65°	1583.8	659.6	445.8	416.8	485.7	608.9	681.4	576.3	453.0	424.0	424.0
67.5°	579.9	449.4	380.6	329.8	340.7	395.0	442.2	373.3	300.8	257.3	268.2
70°	413.2	376.9	333.5	286.3	264.6	257.3	253.7	210.2	148.6	116.0	123.2
72.5°	333.5	311.7	279.0	242.8	206.5	174.0	148.6	108.7	68.9	47.1	43.5
75°	239.2	228.3	202.9	174.0	145.0	123.2	101.5	68.9	36.2	18.1	18.1
77.5°	123.2	123.2	119.6	108.7	90.6	72.5	58.0	39.9	21.8	7.2	7.2
80°	94.2	101.5	105.1	94.2	83.3	65.3	47.1	29.0	14.5	3.6	3.6
82.5°	90.6	105.1	112.4	97.9	83.3	61.6	47.1	29.0	14.5	3.6	3.6
85°	21.8	21.8	32.6	36.2	47.1	50.7	39.9	25.4	10.8	3.6	3.6
87.5°	7.2	7.2	7.2	7.2	7.2	7.2	3.6	3.6	3.6	3.6	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)