

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: P529021

Luminaire Tested: **GALN-SA4A-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8795 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 121
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



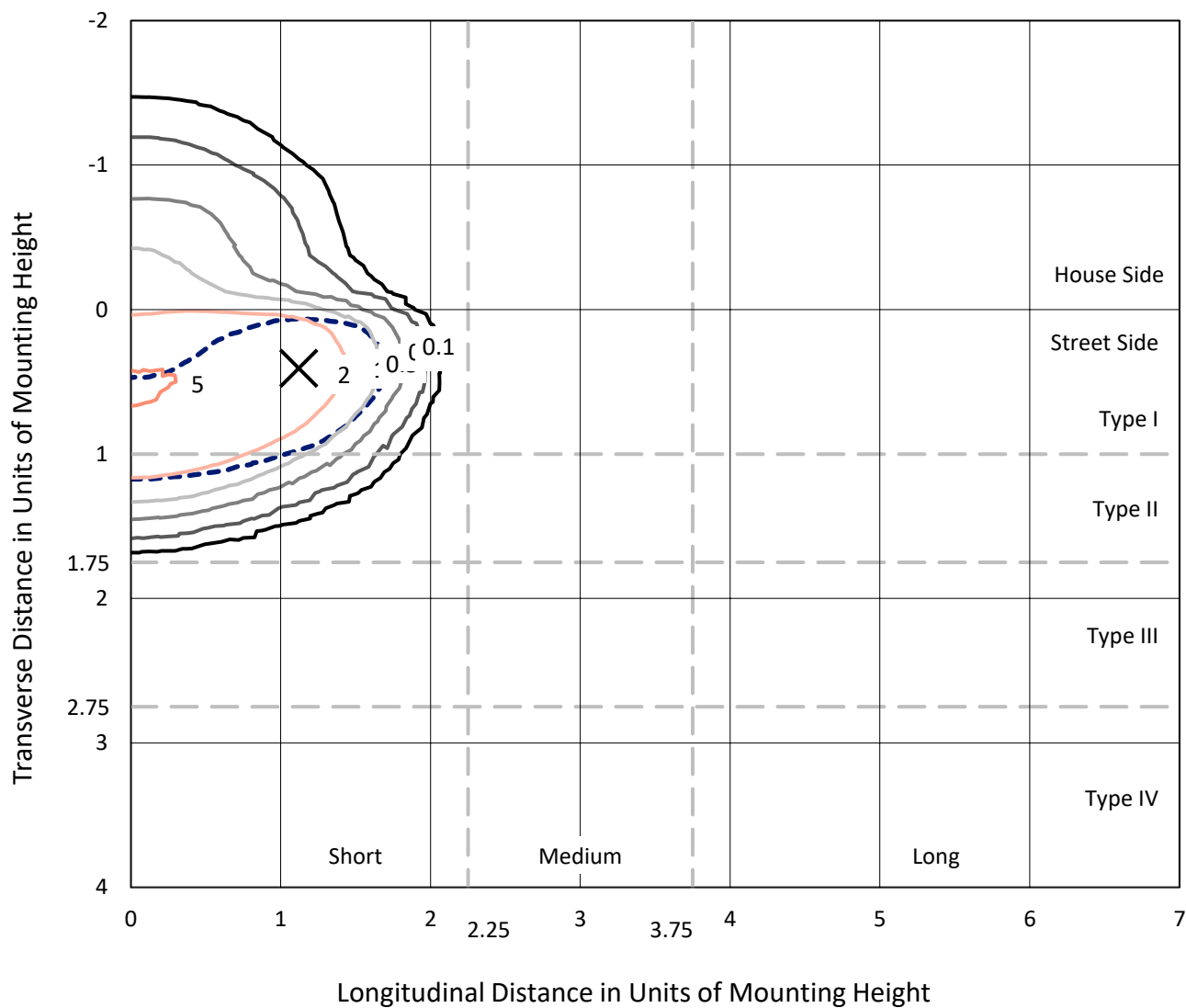
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



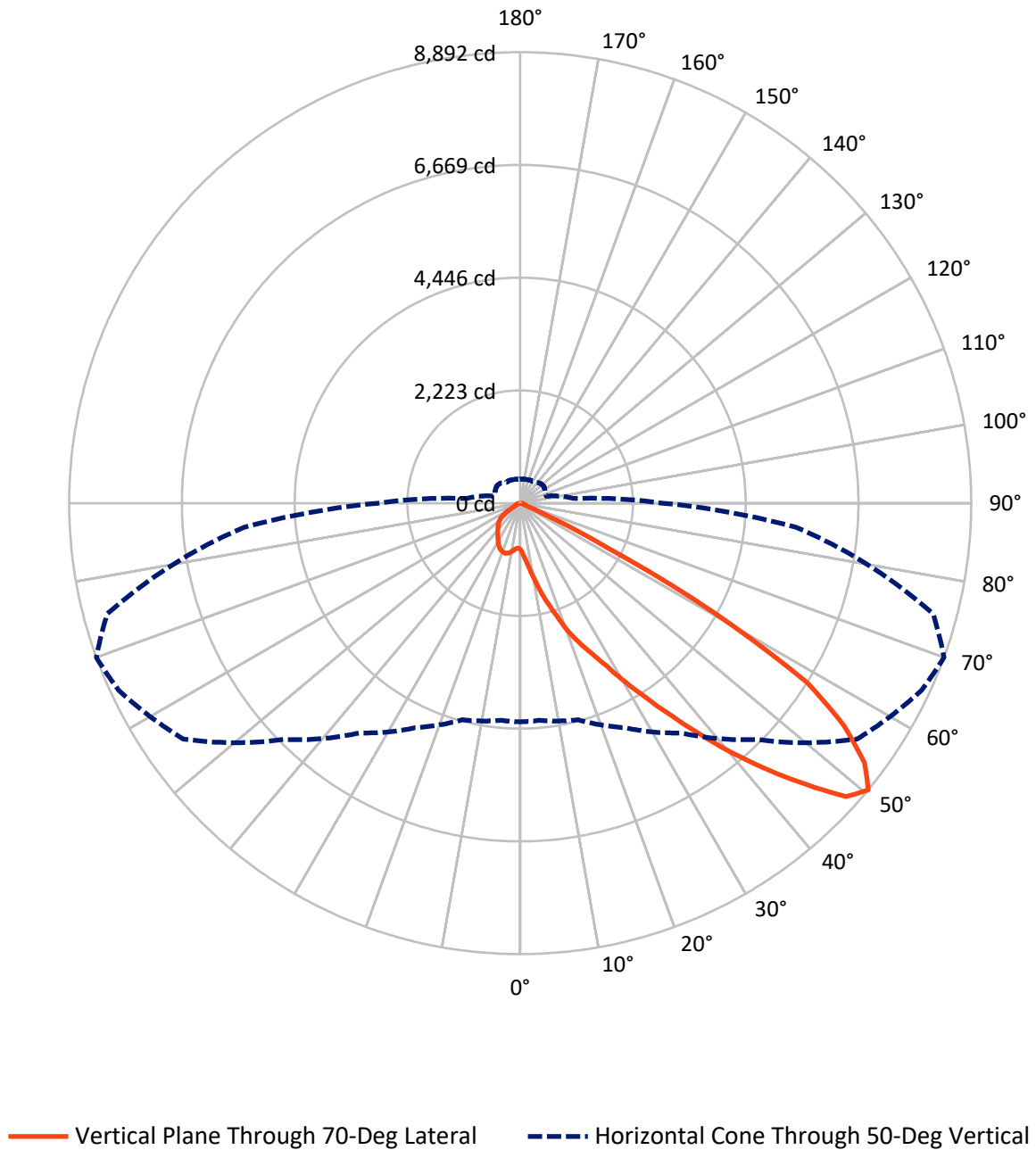
Based on 25 foot mounting height. Maximum calculated value = 5.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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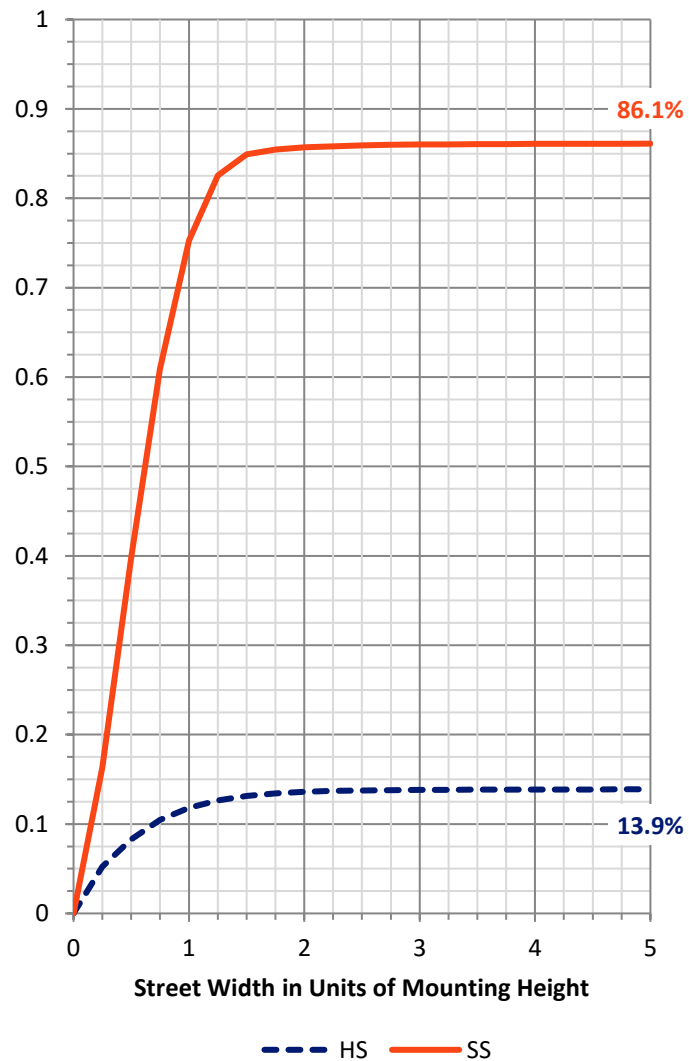
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1228.3	0.0	1228.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	7566.7	0.0	7566.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	8795.0	0.0	8795.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	1.3
10°-20°	512.4	5.8
20°-30°	1075.0	12.2
30°-40°	1852.9	21.1
40°-50°	2708.0	30.8
50°-60°	2109.1	24.0
60°-70°	357.3	4.1
70°-80°	49.1	0.6
80°-90°	12.7	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°	8795.0	100.0
0°-180°	8795.0	100.0

Coefficient of Utilization



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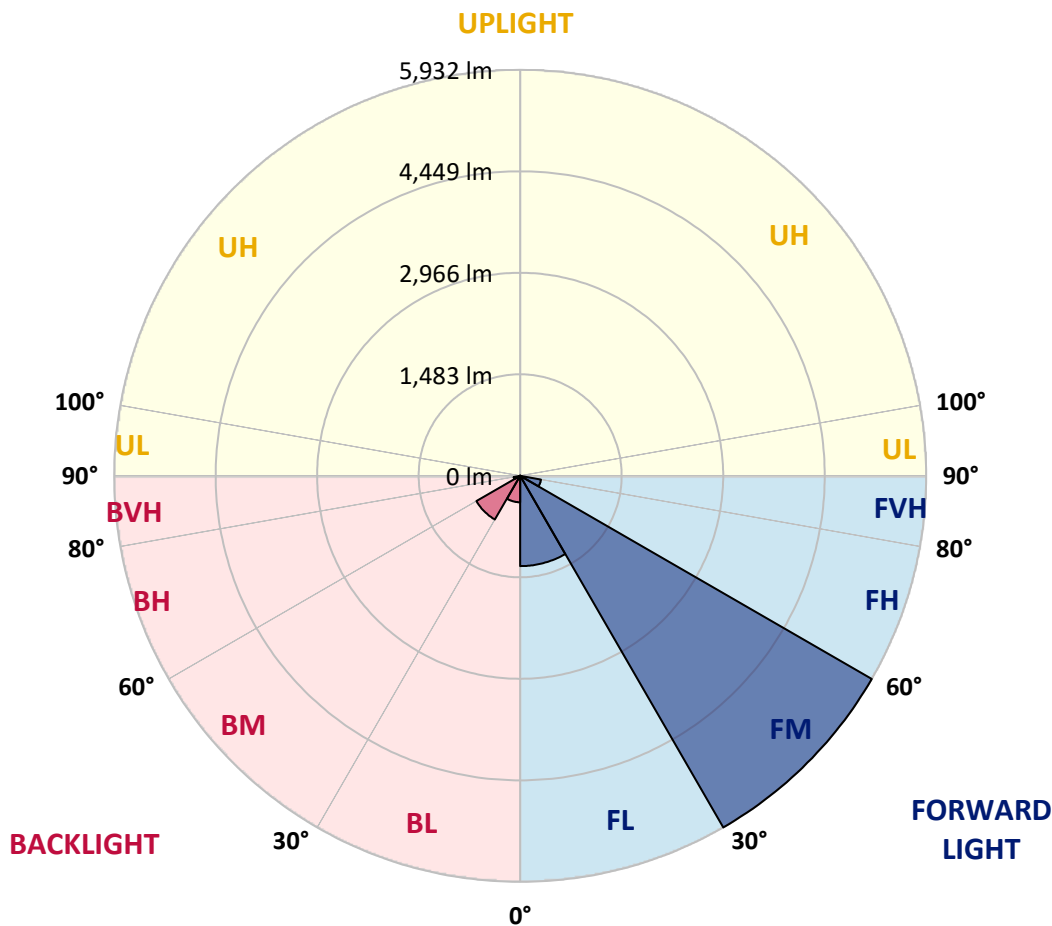
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1319.4	15.0			
FM	(30°-60°)	5932.1	67.4			
FH	(60°-80°)	309.4	3.5			G0/660
FVH	(80°-90°)	5.9	0.1			G0/10
BL	(0°-30°)	386.5	4.4	B1/500		
BM	(30°-60°)	737.9	8.4	B1/1000		
BH	(60°-80°)	97.0	1.1	B0/110		G0/110
BVH	(80°-90°)	6.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0
2.5°	1193.0	1184.3	1165.5	1130.8	1116.3	1081.6	1061.4	1022.3	997.7	970.3	939.9
5°	1680.3	1635.4	1608.0	1568.9	1454.7	1383.8	1266.7	1166.9	1120.7	1070.1	1000.6
7.5°	2183.5	2154.6	2117.0	2033.1	1955.0	1807.5	1606.5	1386.7	1292.7	1206.0	1068.6
10°	2599.9	2519.0	2514.6	2452.4	2367.1	2190.7	1949.2	1675.9	1508.2	1380.9	1165.5
12.5°	2890.6	2816.8	2850.1	2842.9	2763.3	2601.4	2322.3	1960.8	1785.8	1587.7	1265.3
15°	3155.2	3124.8	3114.7	3106.0	3074.2	2954.2	2704.0	2307.8	2054.8	1816.2	1378.1
17.5°	3414.0	3336.0	3373.6	3380.8	3377.9	3269.4	3035.2	2637.5	2339.7	2057.7	1496.6
20°	3644.0	3651.2	3600.6	3590.5	3581.8	3577.4	3349.0	2964.3	2689.6	2310.7	1651.3
22.5°	3938.9	3888.3	3933.2	3904.2	3847.8	3813.1	3638.2	3253.5	2993.2	2615.8	1809.0
25°	4287.4	4327.9	4222.4	4210.8	4148.6	4028.6	3871.0	3577.4	3285.3	2899.3	1979.6
27.5°	4716.9	4646.0	4618.6	4554.9	4442.2	4391.5	4206.5	3911.5	3638.2	3197.1	2144.4
30°	5085.6	5066.8	4929.5	4854.3	4755.9	4754.5	4495.7	4364.1	4098.0	3664.2	2371.5
32.5°	5386.4	5304.0	5253.4	5201.3	5121.8	5143.5	4925.1	4855.7	4588.2	4098.0	2639.0
35°	5587.4	5528.1	5497.7	5418.2	5395.1	5492.0	5400.9	5371.9	5152.1	4708.2	2952.8
37.5°	5651.0	5669.8	5664.0	5564.3	5613.4	5875.2	5992.3	5917.1	5801.4	5351.7	3292.6
40°	5707.4	5720.4	5691.5	5808.6	5948.9	6246.8	6670.5	6546.1	6502.7	6003.9	3765.4
42.5°	5739.2	5729.1	5729.1	5931.5	6144.1	6742.8	7325.5	7243.1	7209.8	6697.9	4312.0
45°	5601.9	5503.5	5609.1	5883.8	6311.9	6987.1	7849.0	7963.2	7915.5	7523.6	4951.2
47.5°	5088.5	5149.3	5208.5	5575.8	6108.0	6911.9	8170.0	8559.0	8647.2	8217.7	5370.5
50°	4312.0	4299.0	4421.9	4884.6	5531.0	6588.0	8107.8	8731.0	8891.5	8425.9	5458.7
52.5°	3136.4	3231.8	3364.9	3824.7	4591.1	5749.4	7305.3	8287.1	8501.1	8170.0	5400.9
55°	1826.3	1720.8	2020.1	2409.1	3132.1	4336.6	6175.9	7345.8	7742.0	7704.4	5108.8
57.5°	731.7	708.5	811.2	1093.2	1634.0	2688.1	4491.3	6035.7	6670.5	7056.5	4489.9
60°	321.0	313.8	368.7	445.4	668.1	1239.2	2456.8	3753.9	4416.1	4930.9	3090.1
62.5°	231.4	228.5	255.9	283.4	352.8	539.4	1032.5	1512.5	1885.6	2277.5	1383.8
65°	186.5	193.8	212.6	227.0	260.3	299.3	364.4	420.8	516.2	535.0	305.1
67.5°	151.8	157.6	175.0	190.9	196.7	162.0	167.7	147.5	147.5	131.6	105.6
70°	111.3	112.8	133.0	151.8	121.5	65.1	114.2	114.2	102.7	98.3	89.7
72.5°	82.4	83.9	99.8	94.0	47.7	40.5	83.9	92.5	83.9	79.5	72.3
75°	60.7	62.2	52.1	21.7	20.2	26.0	49.2	63.6	60.7	59.3	54.9
77.5°	11.6	8.7	7.2	10.1	14.5	21.7	31.8	39.0	40.5	43.4	40.5
80°	1.4	1.4	4.3	8.7	15.9	23.1	33.3	37.6	39.0	40.5	37.6
82.5°	0.0	1.4	4.3	8.7	15.9	21.7	28.9	33.3	36.2	37.6	36.2
85°	0.0	1.4	2.9	7.2	13.0	15.9	14.5	10.1	8.7	10.1	7.2
87.5°	0.0	0.0	1.4	1.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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°	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0
2.5°	922.6	916.8	896.5	874.8	856.0	864.7	856.0	848.8	851.7	848.8	845.9
5°	973.2	947.1	903.8	885.0	869.1	867.6	863.3	861.8	863.3	863.3	850.3
7.5°	1020.9	979.0	932.7	912.4	893.6	895.1	885.0	885.0	883.5	876.3	873.4
10°	1093.2	1036.8	977.5	941.4	918.2	913.9	903.8	893.6	893.6	893.6	879.2
12.5°	1172.7	1101.9	1020.9	979.0	951.5	929.8	913.9	911.0	895.1	892.2	885.0
15°	1242.1	1152.5	1049.8	992.0	957.3	928.3	903.8	887.9	880.6	876.3	870.5
17.5°	1310.1	1195.9	1065.7	992.0	954.4	921.1	895.1	880.6	863.3	866.2	854.6
20°	1401.2	1242.1	1070.1	973.2	926.9	895.1	860.4	853.1	843.0	834.4	837.2
22.5°	1489.4	1275.4	1057.0	950.0	883.5	845.9	828.6	819.9	815.6	808.3	798.2
25°	1568.9	1311.5	1036.8	908.1	837.2	809.8	793.9	792.4	782.3	782.3	763.5
27.5°	1649.9	1324.5	1002.1	858.9	796.8	780.8	773.6	770.7	766.4	756.3	743.3
30°	1742.4	1328.9	951.5	808.3	760.6	743.3	753.4	760.6	741.8	723.0	728.8
32.5°	1819.1	1318.8	890.7	760.6	734.6	725.9	746.1	753.4	731.7	711.4	701.3
35°	1911.6	1294.2	831.5	723.0	708.5	725.9	743.3	743.3	699.9	675.3	669.5
37.5°	2051.9	1266.7	776.5	691.2	681.1	717.2	740.4	724.5	656.5	626.1	618.9
40°	2202.3	1249.4	723.0	659.4	666.6	702.8	715.8	666.6	597.2	578.4	572.6
42.5°	2420.6	1214.7	675.3	631.9	653.6	682.5	682.5	594.3	568.3	558.2	556.7
45°	2692.5	1190.1	633.4	608.8	634.8	642.0	618.9	556.7	537.9	535.0	536.5
47.5°	2825.5	1142.4	590.0	581.3	600.1	601.5	540.8	526.3	510.4	506.1	503.2
50°	2805.3	1057.0	533.6	545.1	571.2	556.7	493.1	496.0	481.5	480.1	472.8
52.5°	2663.6	922.6	477.2	504.7	533.6	491.6	454.0	451.2	451.2	432.4	425.1
55°	2361.3	743.3	409.2	443.9	478.6	413.6	403.4	400.5	393.3	376.0	371.6
57.5°	1869.7	545.1	308.0	345.6	406.3	351.4	349.9	336.9	318.1	305.1	305.1
60°	1112.0	313.8	193.8	211.1	269.0	284.9	316.7	310.9	279.1	258.8	253.1
62.5°	507.6	162.0	122.9	125.8	144.6	185.1	248.7	287.8	242.9	208.2	205.3
65°	170.6	120.0	101.2	96.9	99.8	111.3	148.9	203.9	193.8	160.5	154.7
67.5°	104.1	107.0	95.4	88.2	88.2	86.8	85.3	92.5	114.2	111.3	112.8
70°	89.7	98.3	88.2	79.5	76.6	72.3	60.7	50.6	43.4	50.6	53.5
72.5°	72.3	78.1	75.2	68.0	60.7	54.9	43.4	33.3	24.6	21.7	21.7
75°	53.5	57.8	60.7	52.1	46.3	39.0	31.8	21.7	13.0	8.7	8.7
77.5°	39.0	43.4	44.8	40.5	34.7	27.5	20.2	14.5	7.2	2.9	2.9
80°	33.3	39.0	43.4	40.5	36.2	26.0	18.8	10.1	5.8	1.4	1.4
82.5°	31.8	39.0	43.4	39.0	34.7	24.6	18.8	11.6	4.3	1.4	1.4
85°	7.2	10.1	13.0	15.9	18.8	18.8	14.5	8.7	4.3	1.4	1.4
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.4	1.4	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)