

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: P453745

Luminaire Tested: **GALN-SA4D-740-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22877 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

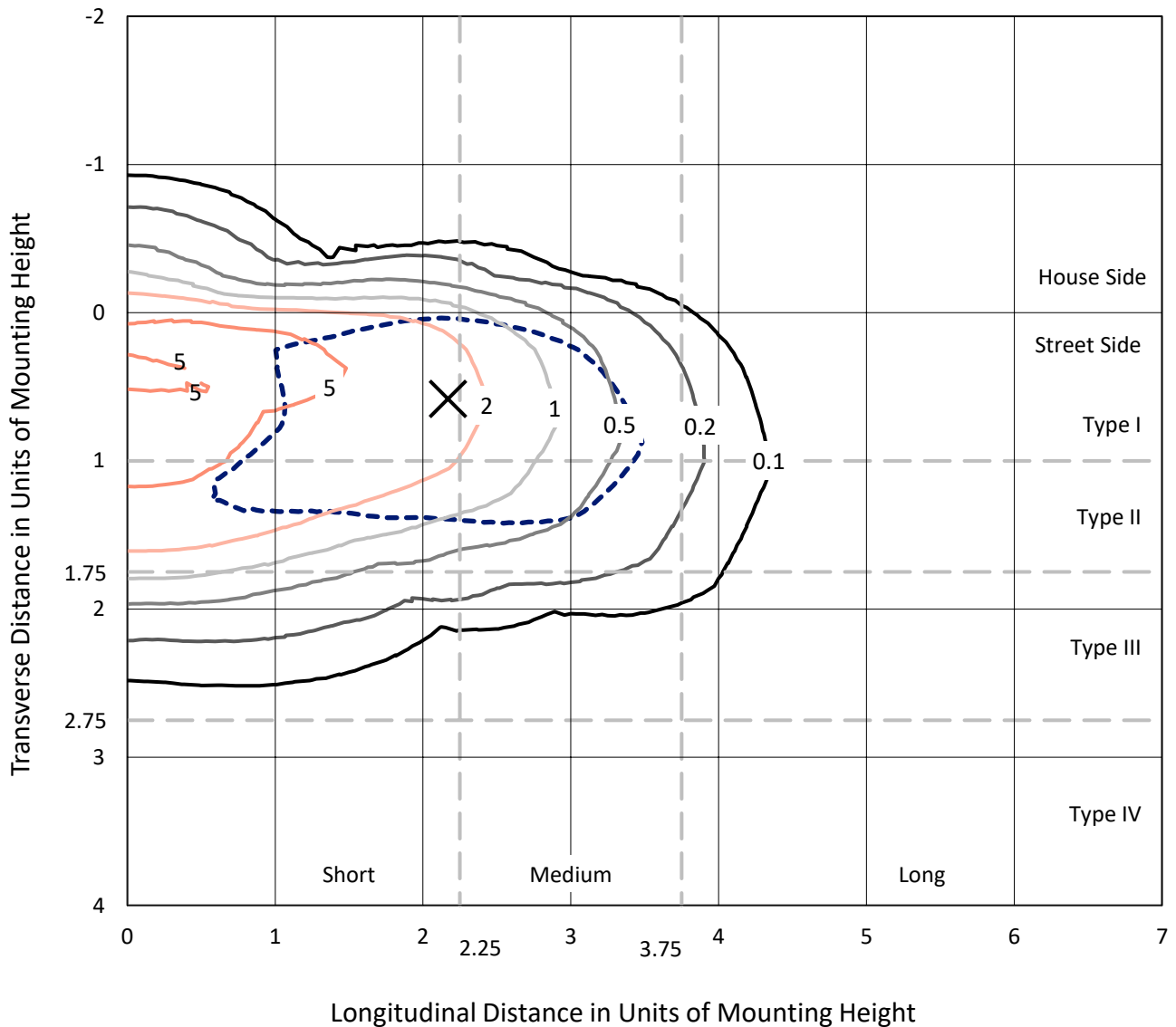
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

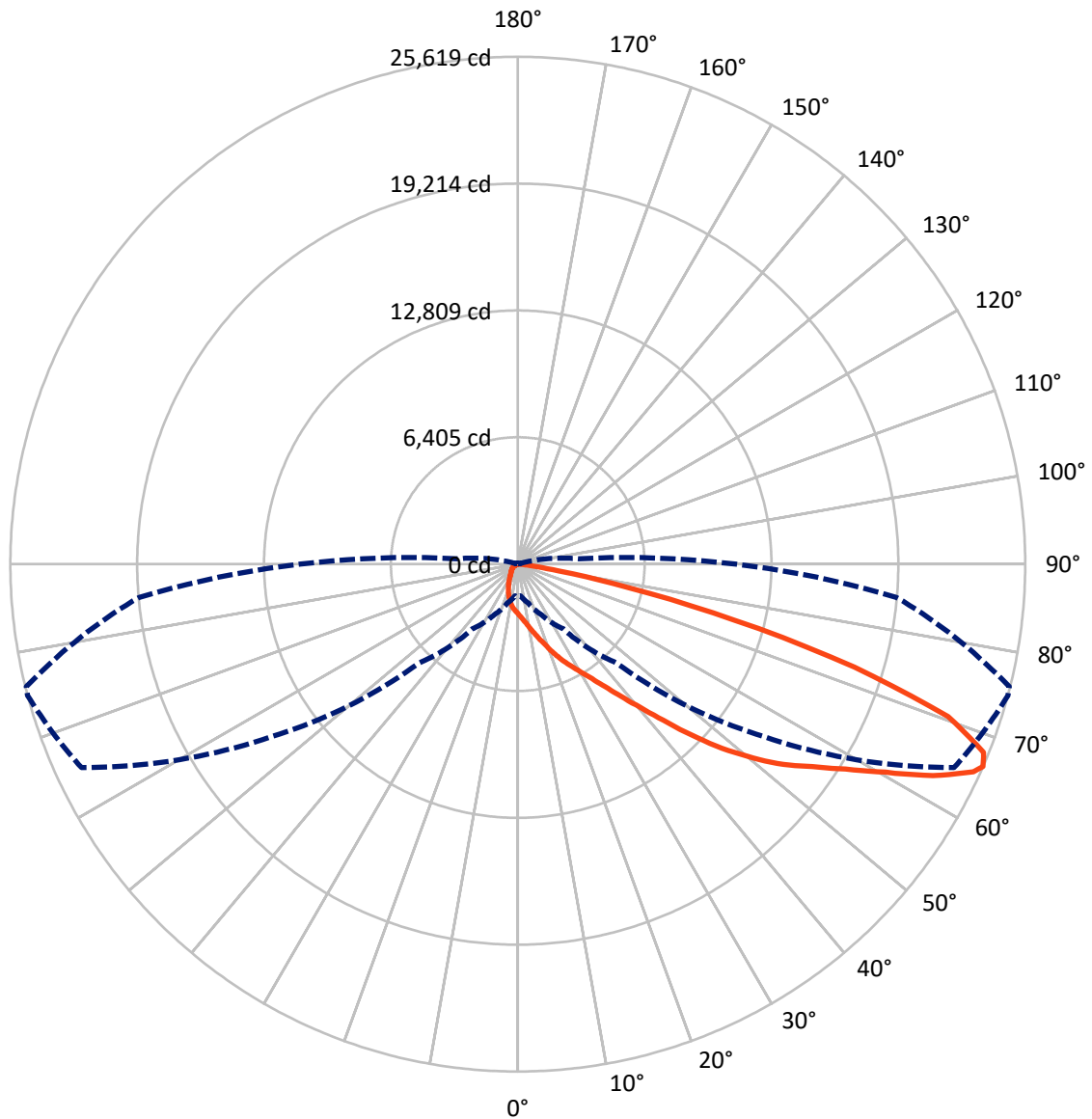
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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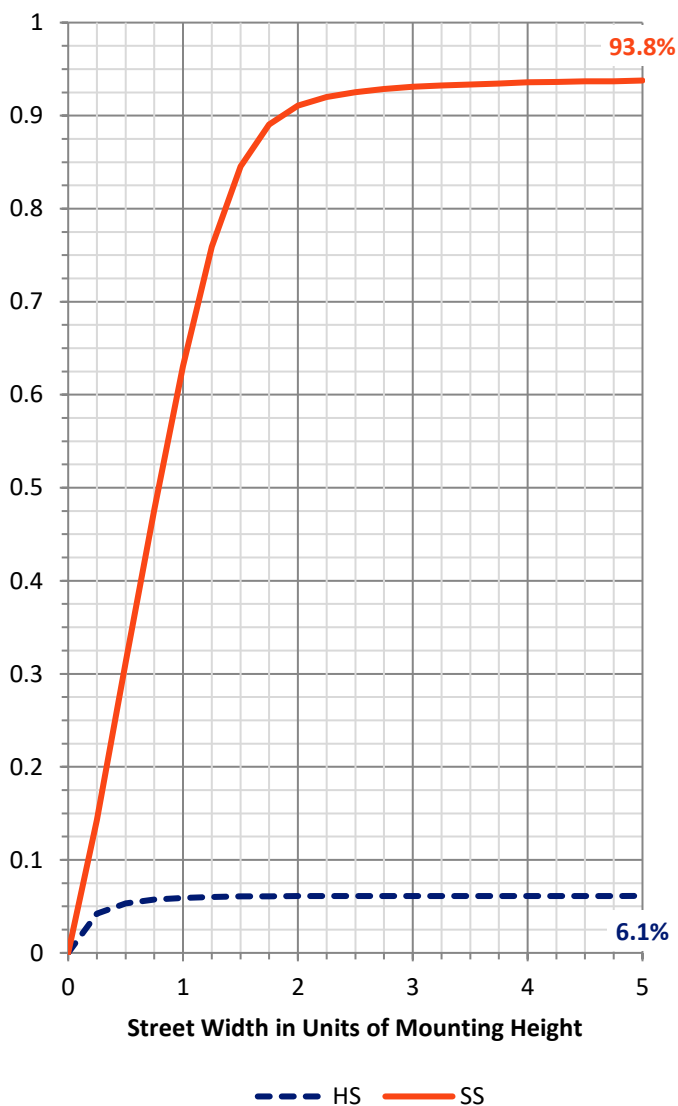
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1412.3	0.0	1412.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	21464.7	0.0	21464.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	22877.0	0.0	22877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.3	1.1
10°-20°	710.2	3.1
20°-30°	1226.3	5.4
30°-40°	2212.0	9.7
40°-50°	3996.1	17.5
50°-60°	6229.9	27.2
60°-70°	5918.1	25.9
70°-80°	2218.0	9.7
80°-90°	125.1	0.5
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°	22877.0	100.0
0°-180°	22877.0	100.0

Coefficient of Utilization



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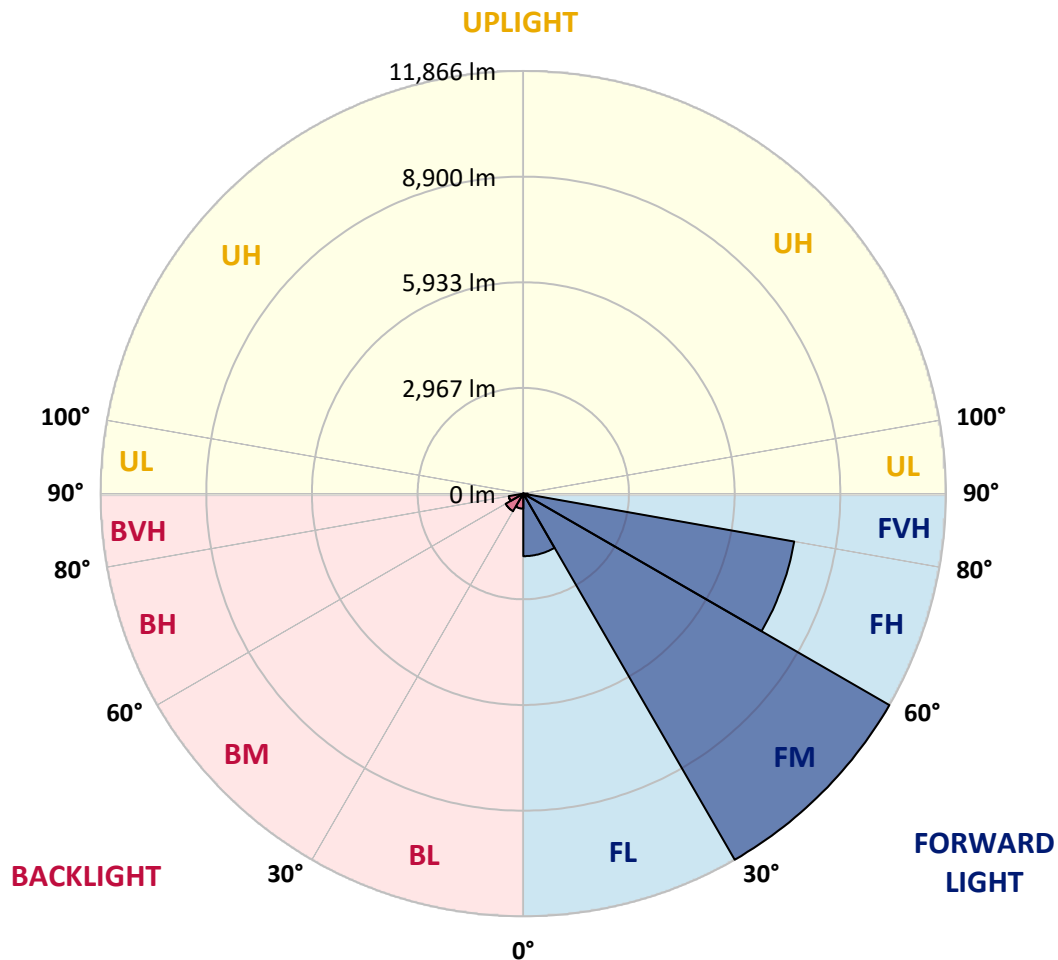
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1756.0	7.7			
FM (30°-60°)	11866.3	51.9			
FH (60°-80°)	7723.7	33.8			G4/12000
FVH (80°-90°)	118.7	0.5			G2/225
BL (0°-30°)	421.8	1.8	B1/500		
BM (30°-60°)	571.7	2.5	B1/1000		
BH (60°-80°)	412.4	1.8	B1/500		G1/500
BVH (80°-90°)	6.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8
2.5°	2989.0	2951.8	2963.6	2946.7	2907.8	2850.3	2799.5	2726.8	2654.1	2642.2	2561.0
5°	3383.1	3373.0	3359.5	3310.4	3283.3	3195.4	3090.5	2965.3	2814.8	2787.7	2640.5
7.5°	3652.1	3647.0	3653.8	3628.4	3604.7	3525.2	3413.6	3242.7	3009.3	2994.1	2748.8
10°	3740.1	3753.6	3779.0	3819.6	3856.8	3831.4	3746.8	3533.7	3261.3	3217.4	2872.3
12.5°	3689.3	3704.5	3765.4	3873.7	3993.8	4063.1	4029.3	3873.7	3528.6	3493.1	3011.0
15°	3559.1	3577.7	3663.9	3831.4	4046.2	4242.4	4327.0	4215.4	3839.9	3782.3	3178.5
17.5°	3366.2	3393.3	3516.8	3738.4	4032.7	4371.0	4609.5	4572.3	4171.4	4117.3	3361.1
20°	3220.7	3241.0	3345.9	3599.7	3975.2	4442.1	4878.5	4983.4	4580.8	4487.7	3576.0
22.5°	3317.2	3323.9	3359.5	3511.7	3872.0	4460.7	5115.3	5411.3	5015.5	4932.6	3799.3
25°	3789.1	3721.4	3685.9	3652.1	3850.0	4443.7	5330.1	5857.9	5448.5	5360.6	4020.9
27.5°	4533.4	4502.9	4323.6	4083.4	4037.8	4465.7	5472.2	6280.8	5856.2	5761.5	4237.4
30°	5343.7	5291.2	5181.3	4829.4	4475.9	4621.4	5575.4	6691.8	6338.3	6213.1	4435.3
32.5°	6087.9	6121.8	5957.7	5595.7	5186.3	4952.9	5709.0	7140.1	6891.4	6735.8	4665.3
35°	6955.7	7023.4	6771.3	6424.6	5945.9	5551.7	5969.5	7645.9	7593.4	7397.2	5020.6
37.5°	7837.0	7877.6	7723.7	7236.5	6805.2	6312.9	6460.1	8270.1	8457.8	8290.4	5445.2
40°	8577.9	8633.8	8520.4	8087.4	7627.3	7194.2	7172.2	8950.1	9486.3	9313.8	6077.8
42.5°	9144.6	9186.9	9190.3	8884.1	8469.7	8273.4	8080.6	9817.8	10775.3	10575.7	6811.9
45°	9860.1	9921.0	9885.5	9677.4	9367.9	9332.4	9232.6	10866.6	12318.0	12065.9	7764.3
47.5°	10966.4	11007.0	10919.1	10673.8	10359.2	10415.0	10355.8	12042.3	13891.1	13674.6	8750.5
50°	11734.4	11802.1	11927.2	12025.3	11797.0	11590.6	11414.7	13140.1	15384.8	15190.3	9758.6
52.5°	11725.9	11837.6	12233.4	12727.3	13226.4	13163.8	12658.0	14352.9	16810.8	16570.6	10705.9
55°	10936.0	11152.5	11734.4	12610.6	13992.6	14681.1	14451.0	15756.9	18042.2	17879.9	11803.7
57.5°	9305.3	9437.2	10245.8	11470.5	13564.7	15394.9	16528.3	17659.9	19519.0	19442.9	13508.8
60°	6258.8	6318.0	7358.3	8872.3	11548.3	14682.8	18050.7	19962.2	21337.4	21300.2	15499.8
62.5°	3586.1	3611.5	4365.9	5643.1	8217.6	12443.2	18179.3	22802.3	23517.8	23538.1	17803.7
65°	1930.1	1943.6	2552.6	3312.1	5000.3	8868.9	16347.3	24358.6	25280.5	25319.4	19231.4
66°	1666.2	1601.9	2031.6	2823.2	3978.6	7058.9	15188.6	24302.7	25618.8	25576.5	19180.7
67.5°	1267.0	1324.5	1622.2	2170.3	2948.4	5018.9	12539.6	23221.8	25361.6	25229.7	18400.9
70°	906.7	930.4	1155.3	1547.8	2007.9	2753.9	8012.9	19287.2	23051.0	22873.4	16031.0
72.5°	585.3	610.7	818.7	1119.8	1451.4	1503.8	4486.0	13935.1	17771.6	17746.2	12072.7
75°	417.8	441.5	541.3	801.8	1091.1	930.4	2160.1	9391.6	11298.0	11221.8	7468.3
77.5°	302.8	314.6	362.0	524.4	779.8	666.5	1001.4	5015.5	5624.5	5890.0	3300.2
80°	174.2	184.4	252.0	319.7	527.8	455.0	478.7	2013.0	2075.6	1975.7	1031.9
82.5°	86.3	98.1	150.5	218.2	329.9	306.2	219.9	605.6	639.4	622.5	260.5
85°	20.3	25.4	84.6	143.8	160.7	137.0	106.6	177.6	219.9	214.8	99.8
87.5°	1.7	3.4	30.4	25.4	27.1	45.7	37.2	45.7	71.0	66.0	35.5
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°	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8
2.5°	2523.8	2491.7	2398.6	2307.3	2231.2	2151.7	2078.9	2036.6	2019.7	2001.1	2009.6
5°	2559.3	2481.5	2293.8	2131.4	1972.4	1837.0	1728.8	1659.4	1625.6	1620.5	1612.1
7.5°	2606.7	2473.1	2182.1	1928.4	1720.3	1569.8	1446.3	1346.5	1316.0	1289.0	1267.0
10°	2664.2	2457.8	2043.4	1715.2	1493.7	1304.2	1141.8	1023.4	962.5	945.6	957.4
12.5°	2725.1	2429.1	1897.9	1519.0	1263.6	1021.7	871.2	812.0	795.0	788.3	790.0
15°	2786.0	2393.6	1745.7	1329.6	1006.5	815.3	746.0	730.8	724.0	720.6	717.2
17.5°	2841.8	2336.1	1574.8	1145.2	815.3	696.9	671.6	658.0	644.5	639.4	631.0
20°	2907.8	2270.1	1420.9	938.8	690.2	631.0	600.5	575.1	554.8	541.3	539.6
22.5°	2970.4	2185.5	1260.2	778.1	629.3	566.7	517.6	490.6	466.9	450.0	455.0
25°	3004.2	2082.3	1116.4	678.3	573.4	502.4	448.3	414.4	389.1	380.6	378.9
27.5°	3004.2	1955.5	976.0	620.8	522.7	444.9	389.1	356.9	340.0	328.2	329.9
30°	2980.5	1815.1	845.8	576.8	478.7	394.1	341.7	312.9	299.4	290.9	289.3
32.5°	2961.9	1681.4	734.1	534.5	433.0	350.2	304.5	282.5	269.0	260.5	260.5
35°	2990.7	1566.4	647.9	492.2	390.8	316.3	275.7	255.4	241.9	235.1	233.4
37.5°	3066.8	1461.5	581.9	446.6	351.8	287.6	255.4	231.7	218.2	209.8	206.4
40°	3254.6	1402.3	532.8	404.3	314.6	263.9	231.7	209.8	192.8	184.4	182.7
42.5°	3555.7	1404.0	485.5	365.4	285.9	243.6	211.4	186.1	167.5	159.0	157.3
45°	4009.0	1468.3	448.3	328.2	260.5	221.6	189.5	162.4	145.5	137.0	137.0
47.5°	4552.0	1593.5	416.1	296.0	236.8	201.3	167.5	140.4	123.5	116.7	116.7
50°	5140.7	1755.8	384.0	262.2	216.5	179.3	143.8	121.8	108.3	103.2	103.2
52.5°	5741.2	1952.1	351.8	235.1	194.5	155.6	123.5	108.3	96.4	93.0	91.3
55°	6529.4	2202.4	318.0	206.4	170.8	133.6	110.0	94.7	81.2	76.1	74.4
57.5°	7742.3	2579.6	280.8	181.0	140.4	111.6	94.7	79.5	64.3	55.8	54.1
60°	9205.5	3039.7	241.9	159.0	113.3	91.3	76.1	60.9	47.4	37.2	35.5
62.5°	10575.7	3332.4	204.7	133.6	89.7	69.4	54.1	45.7	33.8	23.7	22.0
65°	11181.3	3234.3	169.2	108.3	71.0	49.1	35.5	32.1	20.3	10.1	8.5
66°	10980.0	3088.8	155.6	98.1	64.3	42.3	30.4	27.1	15.2	5.1	5.1
67.5°	10386.2	2745.4	135.3	84.6	55.8	33.8	23.7	20.3	8.5	1.7	0.0
70°	8899.3	2221.0	106.6	62.6	40.6	23.7	13.5	10.1	5.1	0.0	0.0
72.5°	6835.6	1654.4	84.6	47.4	28.8	13.5	6.8	3.4	5.1	0.0	0.0
75°	4188.3	945.6	66.0	35.5	18.6	8.5	5.1	0.0	5.1	1.7	0.0
77.5°	1859.0	424.6	44.0	23.7	13.5	6.8	3.4	0.0	3.4	1.7	0.0
80°	470.3	138.7	25.4	16.9	10.1	5.1	1.7	0.0	3.4	3.4	1.7
82.5°	128.6	50.7	18.6	13.5	8.5	5.1	1.7	0.0	3.4	3.4	3.4
85°	50.7	23.7	16.9	13.5	10.1	5.1	1.7	0.0	3.4	3.4	3.4
87.5°	23.7	16.9	16.9	15.2	11.8	5.1	1.7	0.0	3.4	1.7	3.4
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)