

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: P533026

Luminaire Tested: **GALN-SA8B-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32085 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 325
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



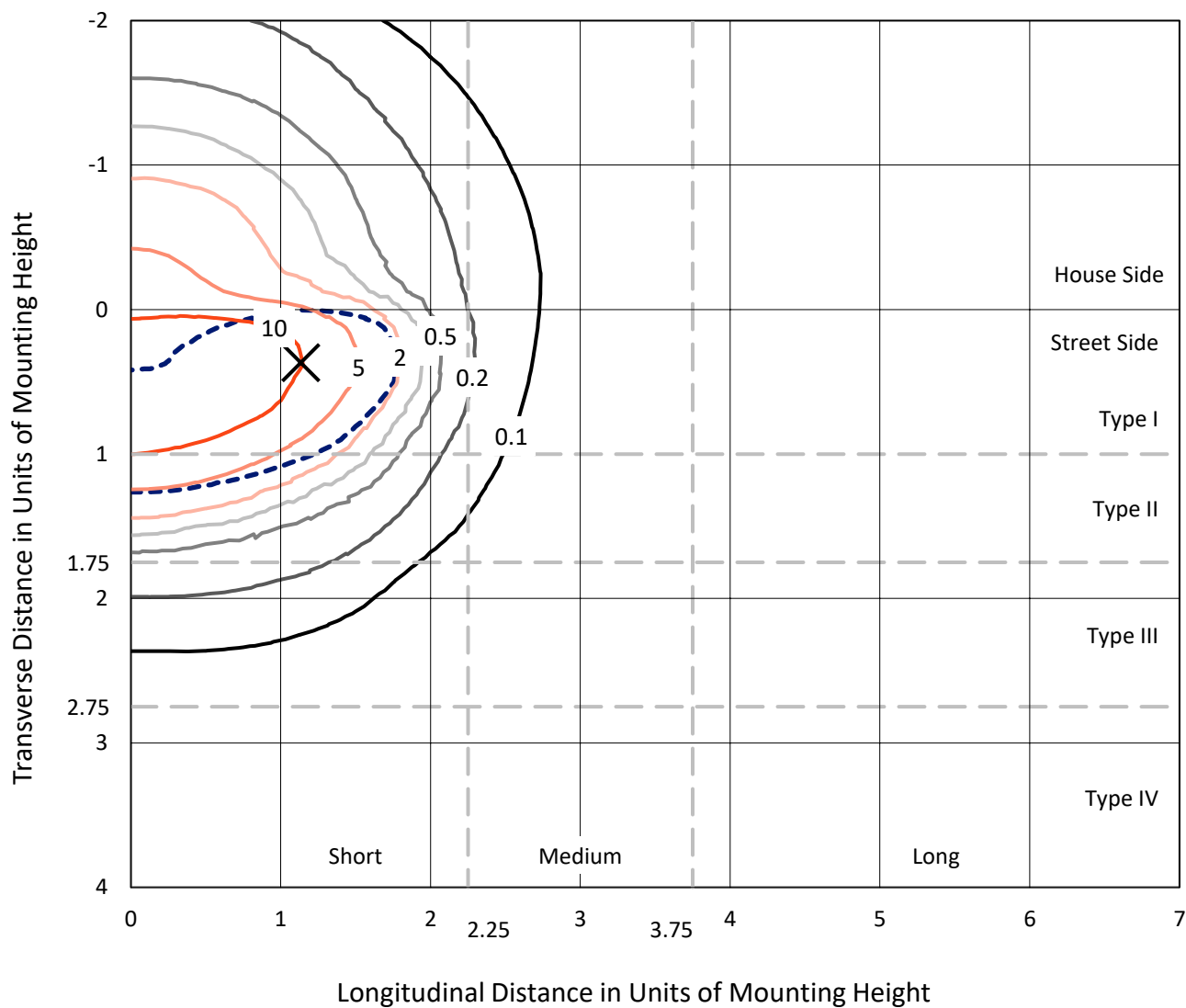
REPORT NUMBER: P533026

CATALOG NUMBER: GALN-SA8B-830-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

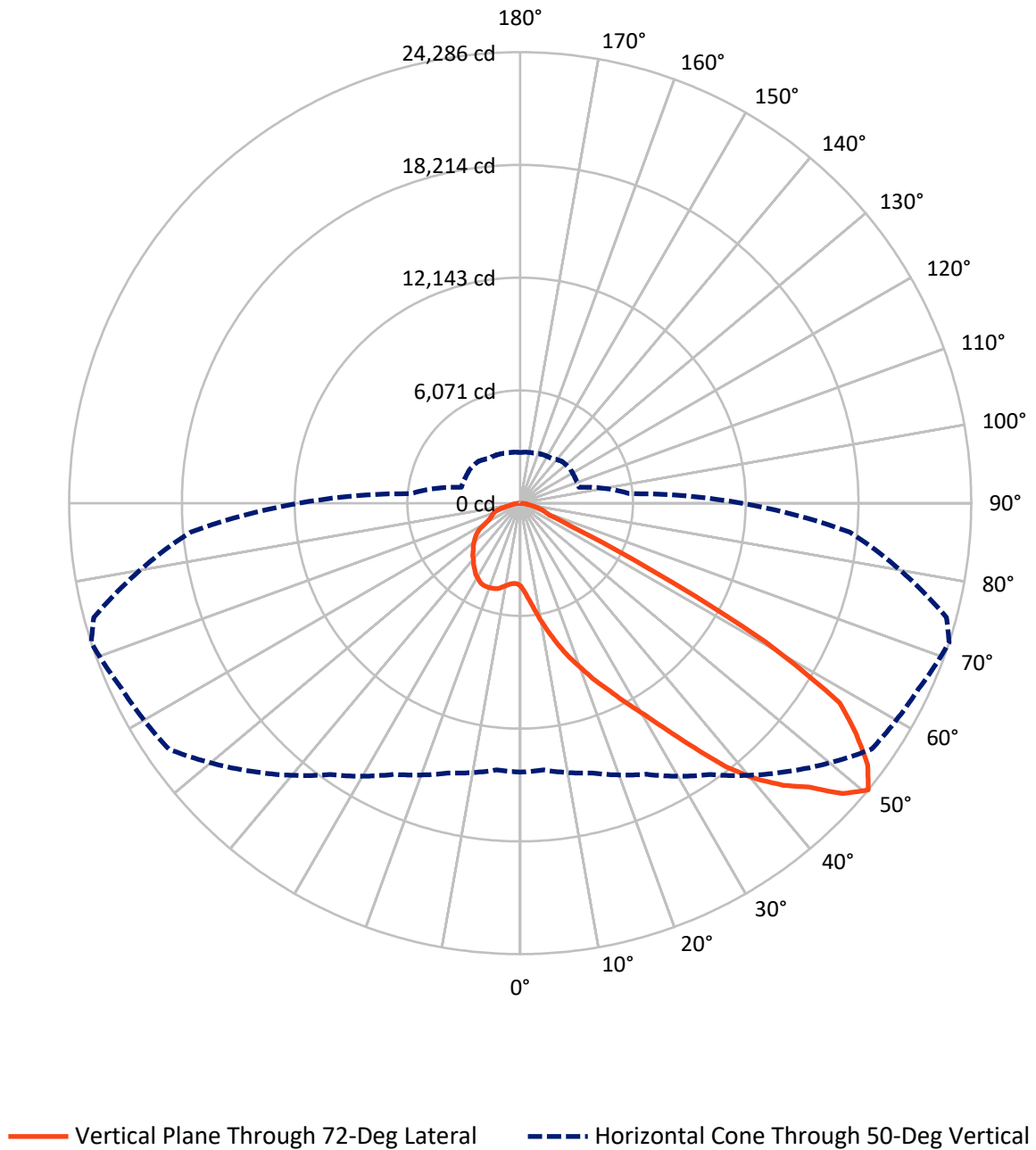
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type II - Short - N/A

REPORT NUMBER: P533026
CATALOG NUMBER: GALN-SA8B-830-U-T2R-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P533026

CATALOG NUMBER: GALN-SA8B-830-U-T2R-GRSWH

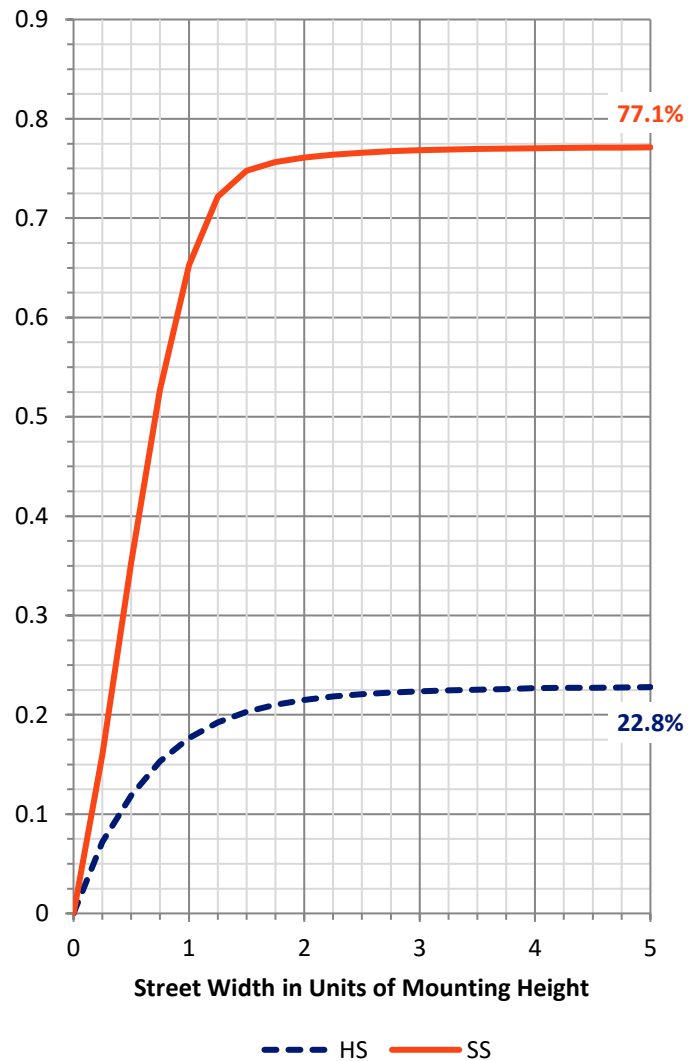
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7350.9	0.0	7350.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	24734.1	0.0	24734.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	32085.0	0.0	32085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.4	1.6
10°-20°	1964.0	6.1
20°-30°	3808.1	11.9
30°-40°	6308.7	19.7
40°-50°	8827.3	27.5
50°-60°	7446.9	23.2
60°-70°	2269.8	7.1
70°-80°	796.3	2.5
80°-90°	138.4	0.4
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°	32085.0	100.0
0°-180°	32085.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533026

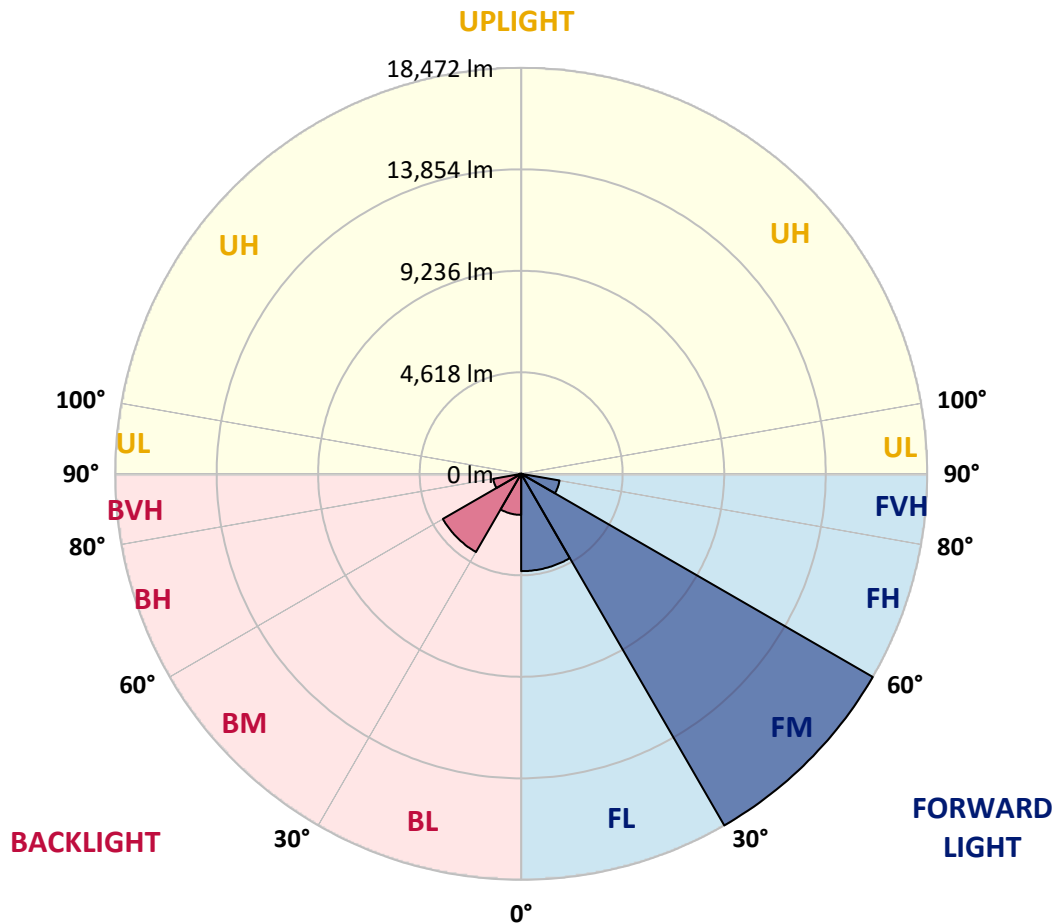
CATALOG NUMBER: GALN-SA8B-830-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4428.9	13.8			
FM	(30°-60°)	18472.2	57.6			
FH	(60°-80°)	1771.0	5.5			G1/1800
FVH	(80°-90°)	62.0	0.2			G1/100
BL	(0°-30°)	1868.6	5.8	B3/2500		
BM	(30°-60°)	4110.7	12.8	B3/5000		
BH	(60°-80°)	1295.1	4.0	B3/2500		G3/2500
BVH	(80°-90°)	76.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P533026

CATALOG NUMBER: GALN-SA8B-830-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4466.5	4466.5	4466.5	4466.5	4466.5	4466.5	4466.5	4466.5	4466.5	4466.5	4466.5
2.5°	5744.9	5709.2	5602.0	5566.3	5439.2	5208.9	5129.5	4895.3	4796.0	4704.7	4597.5
5°	7265.5	7098.8	7086.9	6884.4	6590.6	6419.9	5911.7	5570.2	5256.6	5097.8	4804.0
7.5°	8234.3	8238.2	8238.2	8071.5	7837.2	7404.5	6947.9	6332.5	5860.1	5625.8	5125.6
10°	9155.3	9075.9	9032.3	9016.4	8857.6	8436.7	7948.4	7186.1	6539.0	6265.0	5367.7
12.5°	9806.5	9739.0	9838.2	9786.6	9671.5	9397.5	8937.0	8067.5	7257.6	6888.3	5756.8
15°	10116.1	10163.8	10243.2	10386.1	10334.5	10231.3	9723.1	8972.7	8031.8	7614.9	6102.2
17.5°	10592.6	10461.5	10556.8	10735.5	10878.4	10830.8	10541.0	9627.8	8798.0	8285.9	6566.8
20°	10926.1	10850.6	10898.3	11104.7	11211.9	11481.9	11331.0	10485.4	9532.5	8992.6	7114.6
22.5°	11878.9	11767.8	11612.9	11644.7	11684.4	11874.9	11910.7	11426.3	10386.1	9814.4	7634.7
25°	13054.1	12950.9	12768.3	12581.7	12466.5	12430.8	12553.9	12164.8	11204.0	10612.4	8194.5
27.5°	14348.4	14173.7	14058.6	13673.5	13363.8	13316.1	13256.6	13046.2	12172.7	11533.5	8825.8
30°	15607.0	15468.0	15313.2	14697.8	14376.2	14324.6	14030.8	14090.3	13224.8	12514.2	9540.5
32.5°	16559.8	16571.7	16218.4	15753.9	15452.1	15178.2	15071.0	15241.7	14574.7	14003.0	10338.5
35°	17330.0	17365.8	17028.3	16607.5	16281.9	16472.5	16424.8	16504.2	16186.6	15487.9	11267.5
37.5°	18080.4	17901.8	17540.5	17338.0	17167.3	17480.9	17885.9	17953.4	18012.9	17191.1	12347.4
40°	18203.5	18219.4	18009.0	18151.9	17937.5	18409.9	19350.9	19263.5	19505.7	18787.1	13518.6
42.5°	18028.8	18064.5	18147.9	18350.4	18866.5	19434.3	20831.8	20474.5	20768.3	20129.1	14658.1
45°	17742.9	17596.0	17699.3	18469.5	19362.8	20625.3	22185.6	21907.7	21812.4	21276.4	16015.9
47.5°	16377.2	16528.1	16849.6	17798.5	19140.5	20831.8	23146.4	23082.9	23368.8	22991.6	17250.6
50°	14483.4	14423.8	15043.2	16111.2	17842.2	20426.8	23094.8	23670.5	24285.9	23761.8	17802.5
52.5°	10846.7	11164.3	11696.3	13022.3	15491.8	18219.4	21967.3	22928.1	23428.3	23317.1	17357.8
55°	6856.6	6951.9	7273.5	8849.6	11073.0	14622.3	18830.8	21058.1	21951.4	22368.3	16948.9
57.5°	3331.0	3152.4	3545.4	4811.9	6396.0	9834.3	14523.1	18342.4	20283.9	21038.2	16059.6
60°	1739.0	1806.5	1961.3	2413.9	3307.2	5105.7	9052.1	12224.3	15190.1	16349.4	12172.7
62.5°	1441.2	1465.0	1568.2	1794.5	2199.5	2938.0	4621.3	5959.3	7745.9	8790.1	6924.1
65°	1222.8	1234.7	1345.9	1496.8	1754.8	2068.5	2378.2	2489.3	3013.4	3092.8	2461.5
67.5°	1020.3	1032.3	1151.4	1294.3	1461.0	1544.4	1623.8	1615.9	1675.4	1651.6	1647.6
70°	786.1	798.0	921.1	1072.0	1155.3	1107.7	1353.8	1409.4	1433.3	1453.1	1484.9
72.5°	567.7	591.6	686.8	794.0	750.4	861.5	1115.6	1199.0	1230.8	1242.7	1282.4
75°	412.9	420.8	444.7	412.9	476.4	599.5	786.1	889.3	929.0	940.9	1000.5
77.5°	182.6	186.6	190.6	238.2	305.7	373.2	468.5	551.9	607.4	623.3	639.2
80°	95.3	99.3	123.1	162.8	218.4	273.9	341.4	389.1	424.8	428.8	444.7
82.5°	59.6	63.5	87.3	115.1	154.8	202.5	250.1	289.8	317.6	321.6	325.6
85°	27.8	35.7	51.6	71.5	103.2	131.0	135.0	115.1	123.1	127.0	119.1
87.5°	7.9	11.9	15.9	11.9	15.9	15.9	19.9	23.8	23.8	23.8	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P533026

CATALOG NUMBER: GALN-SA8B-830-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4466.5	4466.5	4466.5	4466.5	4466.5	4466.5	4466.5	4466.5	4466.5	4466.5	4466.5
2.5°	4538.0	4502.2	4363.3	4311.7	4176.7	4200.5	4129.0	4125.1	4109.2	4105.2	4101.2
5°	4649.1	4538.0	4371.2	4244.2	4168.7	4160.8	4109.2	4109.2	4125.1	4137.0	4109.2
7.5°	4831.8	4704.7	4422.8	4303.7	4236.2	4224.3	4188.6	4160.8	4196.5	4184.6	4152.9
10°	5042.2	4819.9	4522.1	4418.9	4307.7	4279.9	4279.9	4291.8	4232.3	4252.1	4220.4
12.5°	5276.4	4978.7	4649.1	4530.0	4399.0	4383.1	4375.2	4287.8	4319.6	4303.7	4224.3
15°	5574.2	5161.3	4811.9	4609.4	4498.3	4426.8	4323.6	4307.7	4287.8	4248.1	4212.4
17.5°	5895.8	5359.8	4887.3	4633.3	4466.5	4414.9	4335.5	4252.1	4192.6	4200.5	4172.7
20°	6169.7	5542.4	4915.1	4657.1	4442.7	4343.4	4220.4	4168.7	4105.2	4101.2	4097.3
22.5°	6495.3	5788.6	4954.8	4593.6	4371.2	4268.0	4184.6	4093.3	4049.6	3994.0	4021.8
25°	6884.4	5883.9	4962.8	4557.8	4319.6	4137.0	4093.3	3994.0	3978.2	3898.8	3914.6
27.5°	7166.3	5935.5	4899.3	4446.7	4200.5	4061.5	3982.1	3910.7	3882.9	3823.3	3807.4
30°	7543.4	6014.9	4764.3	4307.7	4081.4	3926.6	3878.9	3863.0	3783.6	3720.1	3712.2
32.5°	7972.2	6066.5	4676.9	4164.8	3958.3	3839.2	3863.0	3787.6	3688.3	3632.8	3616.9
35°	8313.7	6086.4	4458.6	4002.0	3874.9	3799.5	3771.7	3755.8	3612.9	3561.3	3521.6
37.5°	8833.8	6042.7	4275.9	3886.9	3783.6	3755.8	3732.0	3624.8	3462.0	3386.6	3331.0
40°	9441.2	6030.8	4041.7	3724.1	3696.3	3728.0	3656.6	3489.8	3263.5	3180.2	3140.4
42.5°	10024.8	6114.1	3894.8	3636.7	3601.0	3612.9	3513.7	3263.5	3152.4	3104.7	3041.2
45°	11001.5	6288.8	3652.6	3501.7	3485.9	3477.9	3358.8	3096.8	3033.3	2973.7	2961.8
47.5°	11882.9	6173.7	3497.8	3362.8	3378.7	3335.0	3080.9	2997.5	2926.1	2866.5	2846.7
50°	11934.5	5899.8	3279.4	3255.6	3259.6	3184.1	2941.9	2886.4	2795.0	2755.3	2727.5
52.5°	11664.5	5451.1	3076.9	3084.9	3096.8	2973.7	2771.2	2731.5	2656.1	2600.5	2584.6
55°	10906.2	4752.4	2878.4	2910.2	2941.9	2707.7	2644.2	2544.9	2485.4	2406.0	2409.9
57.5°	9607.9	3827.3	2600.5	2652.1	2719.6	2461.5	2413.9	2290.8	2203.5	2140.0	2132.0
60°	6439.7	2723.6	2183.6	2203.5	2354.3	2251.1	2247.1	2124.1	2005.0	1949.4	1917.6
62.5°	3799.5	2080.4	1885.9	1866.0	1862.0	1921.6	2020.8	1977.2	1822.3	1715.1	1746.9
65°	1989.1	1798.5	1754.8	1687.3	1647.6	1631.8	1707.2	1727.0	1623.8	1508.7	1500.7
67.5°	1671.5	1671.5	1635.7	1611.9	1556.3	1488.8	1441.2	1377.7	1361.8	1330.0	1290.3
70°	1520.6	1560.3	1548.4	1492.8	1445.2	1369.7	1246.7	1143.4	1044.2	1008.4	1032.3
72.5°	1326.1	1365.8	1365.8	1338.0	1274.4	1159.3	1040.2	921.1	837.7	774.2	766.3
75°	1020.3	1040.2	1087.8	1056.1	972.7	901.2	778.2	655.1	575.7	516.1	504.2
77.5°	651.1	682.9	682.9	678.9	619.4	551.9	472.5	385.1	325.6	281.9	270.0
80°	432.8	452.6	468.5	452.6	412.9	361.3	301.7	242.2	198.5	162.8	154.8
82.5°	317.6	341.4	353.4	337.5	297.8	258.1	214.4	170.7	127.0	99.3	91.3
85°	123.1	127.0	142.9	170.7	166.7	162.8	131.0	95.3	71.5	51.6	47.6
87.5°	31.8	27.8	31.8	31.8	27.8	23.8	23.8	23.8	23.8	11.9	15.9
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)