

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: P530038

Luminaire Tested: **GALN-SA5B-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20319 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

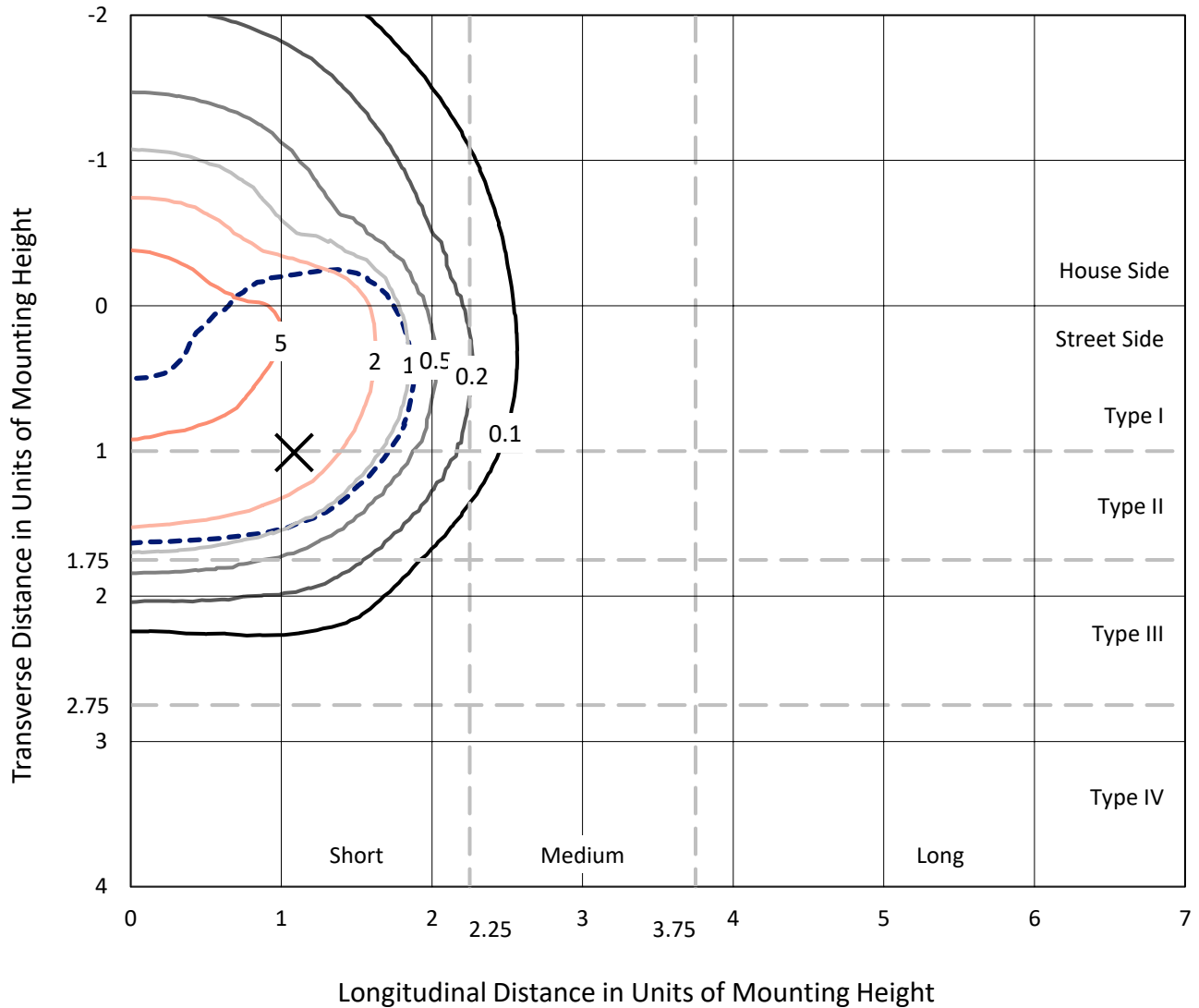
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

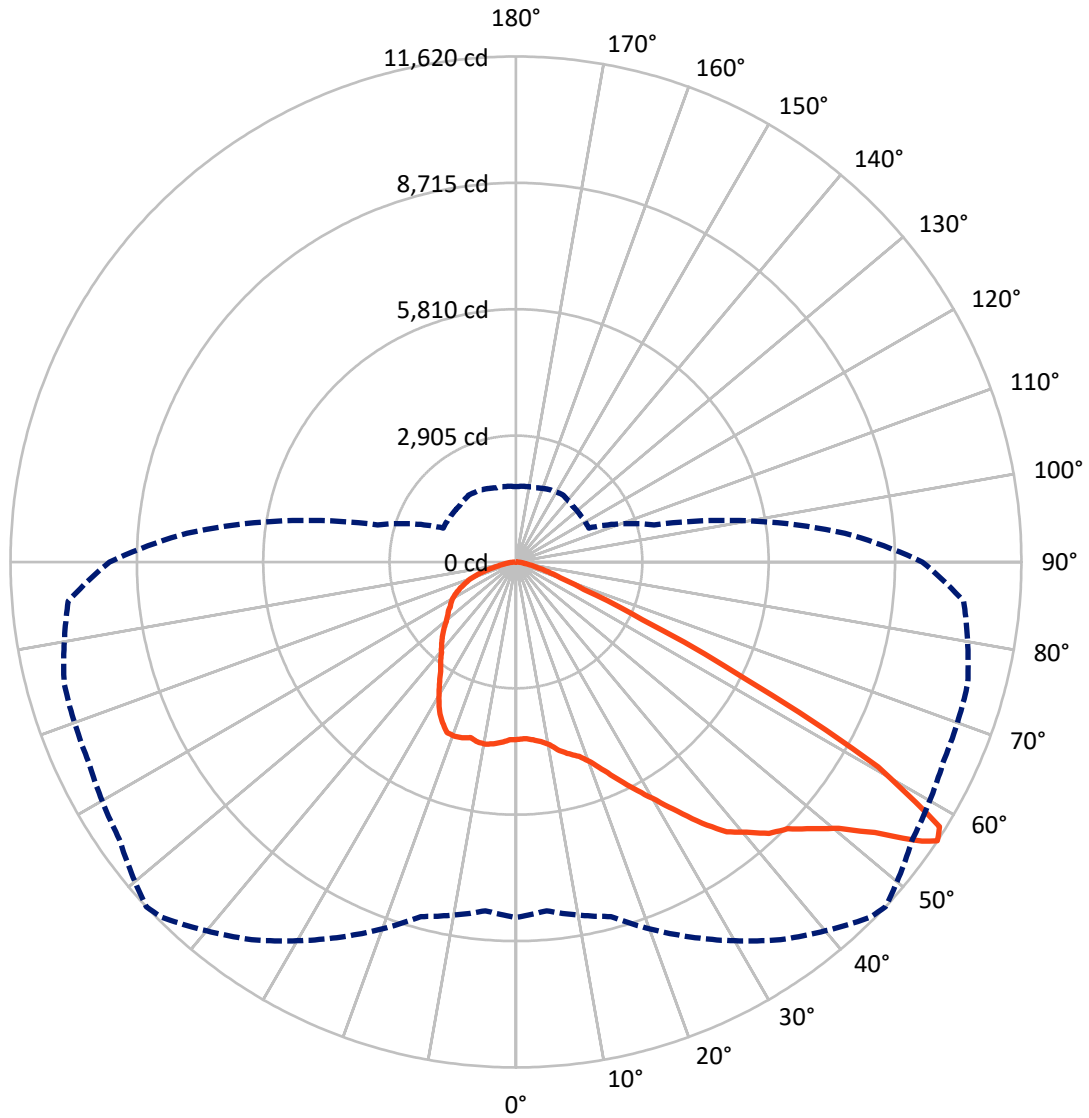
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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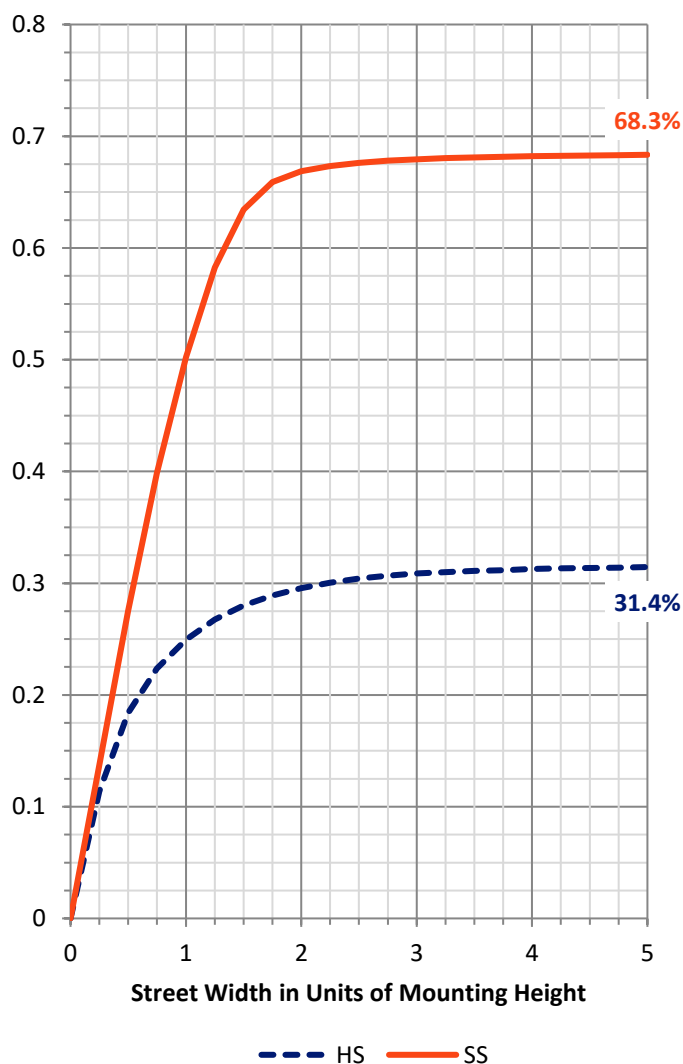
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6438.8	0.0	6438.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	13880.1	0.0	13880.1
	% Fixture	68.3	0.0	68.3
Total	Lumens	20319.0	0.0	20319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.7	2.0
10°-20°	1254.5	6.2
20°-30°	2217.6	10.9
30°-40°	3330.8	16.4
40°-50°	4571.2	22.5
50°-60°	5446.0	26.8
60°-70°	2330.6	11.5
70°-80°	659.5	3.2
80°-90°	111.0	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°	20319.0	100.0
0°-180°	20319.0	100.0

Coefficient of Utilization



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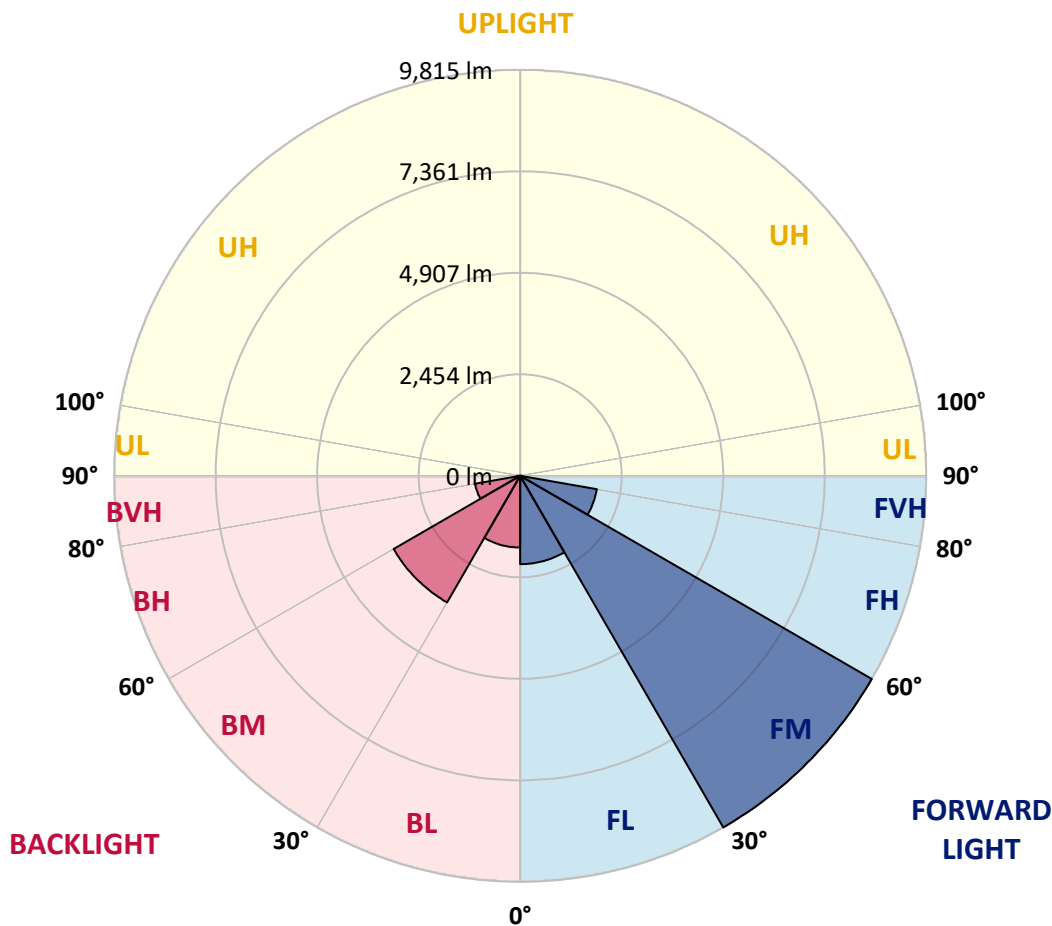
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2136.2	10.5			
FM (30°-60°)	9814.5	48.3			
FH (60°-80°)	1882.3	9.3			G2/5000
FVH (80°-90°)	47.1	0.2			G1/100
BL (0°-30°)	1733.6	8.5	B3/2500		
BM (30°-60°)	3533.5	17.4	B3/5000		
BH (60°-80°)	1107.8	5.5	B3/2500		G3/2500
BVH (80°-90°)	63.9	0.3			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4081.5	4081.5	4081.5	4081.5	4081.5	4081.5	4081.5	4081.5	4081.5	4081.5	4081.5
2.5°	4065.9	4058.1	4053.0	4094.4	4078.9	4081.5	4065.9	4081.5	4091.8	4068.5	4102.2
5°	4058.1	4081.5	4060.7	4073.7	4107.4	4097.0	4107.4	4138.5	4130.7	4122.9	4112.6
7.5°	4130.7	4133.3	4148.8	4154.0	4164.4	4154.0	4169.6	4198.1	4190.3	4146.3	4151.4
10°	4234.4	4239.5	4242.1	4270.6	4288.8	4291.4	4273.2	4247.3	4244.7	4304.3	4262.9
12.5°	4353.6	4340.6	4371.7	4382.1	4402.8	4426.1	4449.4	4395.0	4428.7	4431.3	4382.1
15°	4527.2	4540.1	4503.9	4503.9	4511.6	4514.2	4579.0	4553.1	4547.9	4519.4	4540.1
17.5°	4786.3	4698.2	4695.6	4659.4	4654.2	4674.9	4698.2	4719.0	4788.9	4731.9	4620.5
20°	4975.5	4996.2	4921.1	4877.0	4884.8	4931.5	4908.1	5001.4	5050.7	4957.4	4848.5
22.5°	5309.8	5239.8	5258.0	5159.5	5167.3	5216.5	5213.9	5309.8	5338.3	5190.6	5032.5
25°	5535.3	5517.1	5532.7	5454.9	5465.3	5504.2	5566.3	5724.4	5677.8	5514.5	5149.1
27.5°	5864.4	5828.1	5815.1	5786.6	5776.3	5879.9	5952.5	6120.9	6087.2	5848.8	5356.4
30°	6201.2	6177.9	6190.9	6074.3	6115.7	6336.0	6356.7	6587.4	6571.8	6152.0	5587.1
32.5°	6434.5	6447.4	6470.7	6406.0	6590.0	6766.2	6836.1	7097.9	7110.8	6672.9	6032.8
35°	6810.2	6766.2	6779.1	6854.3	6939.8	7261.1	7375.2	7548.8	7657.6	7219.7	6460.4
37.5°	7046.0	7092.7	7038.3	7157.5	7380.3	7766.5	7870.1	8048.9	8162.9	7758.7	7043.5
40°	7414.0	7338.9	7377.7	7463.3	7691.3	8194.0	8165.5	8349.5	8385.8	8217.4	7587.6
42.5°	7810.5	7774.2	7719.8	7914.2	8105.9	8471.3	8528.3	8442.8	8626.8	8665.7	8365.1
45°	8284.7	8328.8	8336.6	8341.7	8510.2	8828.9	8751.2	8676.0	8888.5	9171.0	8847.1
47.5°	8725.3	8585.3	8686.4	8826.3	9064.7	9067.3	9158.0	8979.2	9204.7	9456.1	9282.4
50°	8873.0	8805.6	8940.4	9204.7	9572.7	9611.5	9621.9	9367.9	9484.6	9684.1	9432.7
52.5°	8816.0	8792.7	9137.3	9546.8	10085.8	10282.7	10334.5	10021.0	10085.8	9995.1	9764.4
55°	8543.9	8613.8	8961.1	9795.5	10622.2	11231.2	11329.6	10933.2	10521.1	10591.1	10337.1
56°	8170.7	8048.9	8437.6	9513.1	10598.9	11539.5	11619.9	11124.9	10845.0	10754.3	10331.9
57.5°	6932.0	6773.9	7284.5	8559.4	10010.6	11422.9	11482.5	11205.3	10790.6	10606.6	9577.8
60°	4058.1	4135.9	4783.7	5903.2	7722.4	9365.4	9564.9	9767.0	9489.7	8665.7	7129.0
62.5°	1959.1	1909.9	2373.7	3384.4	4706.0	5978.4	5918.8	6486.3	6797.3	6157.2	4501.3
65°	1026.2	1021.0	1295.7	1847.7	2586.2	3140.8	3195.2	3501.0	3928.6	3171.9	2285.6
67.5°	754.1	774.8	912.2	1298.3	1663.7	1697.4	1689.6	1842.5	1884.0	1593.7	1404.5
70°	590.8	601.2	702.3	987.3	1238.7	1109.1	1085.8	1103.9	1225.7	1277.6	1215.4
72.5°	427.6	437.9	523.5	666.0	774.8	756.7	772.2	873.3	1023.6	1078.0	1013.2
75°	285.1	292.8	339.5	406.9	458.7	495.0	523.5	640.1	780.0	811.1	780.0
77.5°	196.9	204.7	235.8	287.6	292.8	316.2	326.5	380.9	466.5	505.3	484.6
80°	111.4	111.4	127.0	147.7	181.4	212.5	217.7	261.7	300.6	326.5	331.7
82.5°	51.8	54.4	67.4	90.7	119.2	147.7	152.9	181.4	209.9	235.8	243.6
85°	25.9	28.5	38.9	54.4	72.6	88.1	85.5	88.1	93.3	88.1	90.7
87.5°	7.8	7.8	10.4	13.0	10.4	13.0	13.0	15.5	18.1	20.7	23.3
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°	4081.5	4081.5	4081.5	4081.5	4081.5	4081.5	4081.5	4081.5	4081.5	4081.5	4081.5
2.5°	4104.8	4112.6	4060.7	4110.0	4091.8	4089.2	4125.5	4120.3	4133.3	4128.1	4097.0
5°	4107.4	4089.2	4143.7	4094.4	4117.7	4167.0	4133.3	4211.0	4172.2	4198.1	4141.1
7.5°	4187.7	4192.9	4182.5	4203.3	4192.9	4216.2	4198.1	4216.2	4185.1	4187.7	4239.5
10°	4257.7	4242.1	4260.3	4234.4	4252.5	4244.7	4203.3	4190.3	4200.7	4187.7	4221.4
12.5°	4387.3	4358.8	4345.8	4314.7	4294.0	4216.2	4151.4	4115.2	4164.4	4172.2	4156.6
15°	4519.4	4522.0	4462.4	4392.4	4262.9	4146.3	4161.8	4174.8	4174.8	4195.5	4156.6
17.5°	4602.3	4602.3	4547.9	4408.0	4275.8	4208.4	4192.9	4151.4	4115.2	4110.0	4107.4
20°	4747.5	4703.4	4579.0	4405.4	4270.6	4239.5	4122.9	4024.5	3949.3	3923.4	3920.8
22.5°	4913.3	4801.9	4628.3	4410.6	4262.9	4218.8	4001.1	3853.4	3718.7	3661.7	3669.4
25°	5066.2	4887.4	4656.8	4387.3	4234.4	4021.9	3778.3	3573.6	3433.6	3387.0	3363.6
27.5°	5172.5	4978.1	4656.8	4408.0	4128.1	3801.6	3552.8	3291.1	3169.3	3138.2	3143.4
30°	5315.0	5092.1	4737.1	4363.9	3915.6	3516.5	3218.5	3047.5	2974.9	2949.0	2967.2
32.5°	5649.3	5390.1	4848.5	4257.7	3664.3	3231.5	2990.5	2894.6	2788.4	2736.5	2718.4
35°	6012.1	5672.6	4957.4	4078.9	3381.8	2972.3	2822.0	2733.9	2607.0	2549.9	2560.3
37.5°	6525.2	6035.4	4965.1	3783.5	3076.0	2827.2	2689.9	2552.5	2448.9	2360.8	2334.9
40°	7217.1	6530.4	4947.0	3472.5	2829.8	2656.2	2555.1	2384.1	2267.5	2205.3	2218.2
42.5°	7826.1	7110.8	4871.8	3120.1	2607.0	2539.6	2425.6	2257.1	2143.1	2078.3	2073.1
45°	8339.2	7538.4	4729.3	2819.5	2420.4	2410.0	2277.8	2148.3	2057.6	1998.0	2023.9
47.5°	8813.4	7883.1	4514.2	2518.8	2249.3	2270.1	2143.1	2062.8	2005.8	1951.3	1948.7
50°	8984.4	7877.9	4325.1	2270.1	2112.0	2101.6	2096.5	2010.9	1951.3	1904.7	1925.4
52.5°	9269.5	7966.0	4120.3	2099.0	1987.6	1990.2	2008.3	1946.1	1878.8	1850.3	1876.2
55°	9678.9	7978.9	3669.4	1899.5	1884.0	1902.1	1902.1	1860.6	1803.6	1780.3	1767.3
56°	9344.6	7592.8	3291.1	1847.7	1832.1	1832.1	1881.4	1834.7	1764.7	1746.6	1731.1
57.5°	8619.0	6652.1	2754.7	1785.5	1762.2	1798.4	1824.4	1775.1	1710.3	1684.4	1700.0
60°	5944.7	4501.3	2070.5	1650.7	1650.7	1710.3	1731.1	1658.5	1630.0	1627.4	1606.7
62.5°	3469.9	2622.5	1619.6	1528.9	1534.1	1583.4	1598.9	1557.4	1521.2	1565.2	1585.9
65°	1839.9	1565.2	1389.0	1399.4	1402.0	1440.8	1508.2	1505.6	1503.0	1516.0	1518.6
67.5°	1332.0	1300.9	1262.0	1251.7	1256.8	1285.3	1352.7	1404.5	1402.0	1370.9	1347.5
70°	1186.9	1142.8	1119.5	1122.1	1101.3	1135.0	1189.5	1223.1	1163.5	1127.3	1111.7
72.5°	987.3	974.4	958.8	961.4	920.0	912.2	850.0	850.0	834.4	824.1	842.2
75°	754.1	748.9	756.7	743.7	699.7	653.0	616.8	583.1	531.2	510.5	500.1
77.5°	476.8	492.4	510.5	482.0	463.9	430.2	393.9	360.2	318.7	295.4	295.4
80°	323.9	336.9	349.8	344.7	323.9	292.8	264.3	228.0	199.5	181.4	178.8
82.5°	246.2	256.5	274.7	254.0	233.2	207.3	184.0	158.1	132.2	111.4	111.4
85°	88.1	101.1	111.4	121.8	129.6	132.2	114.0	93.3	75.2	59.6	57.0
87.5°	23.3	25.9	28.5	25.9	25.9	25.9	28.5	25.9	23.3	18.1	18.1
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)