

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: P531027

Luminaire Tested: **GALN-SA6B-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19116 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

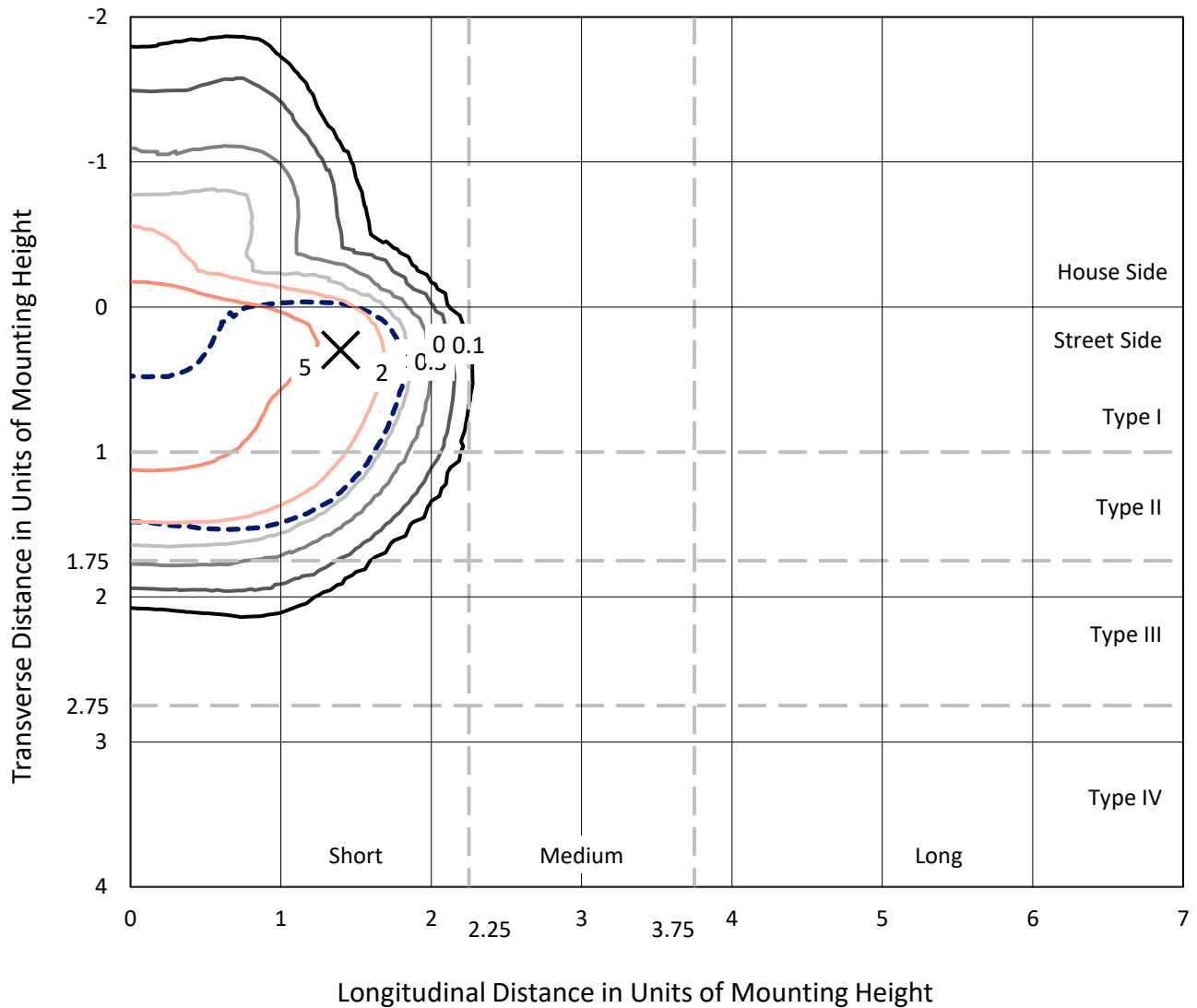
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

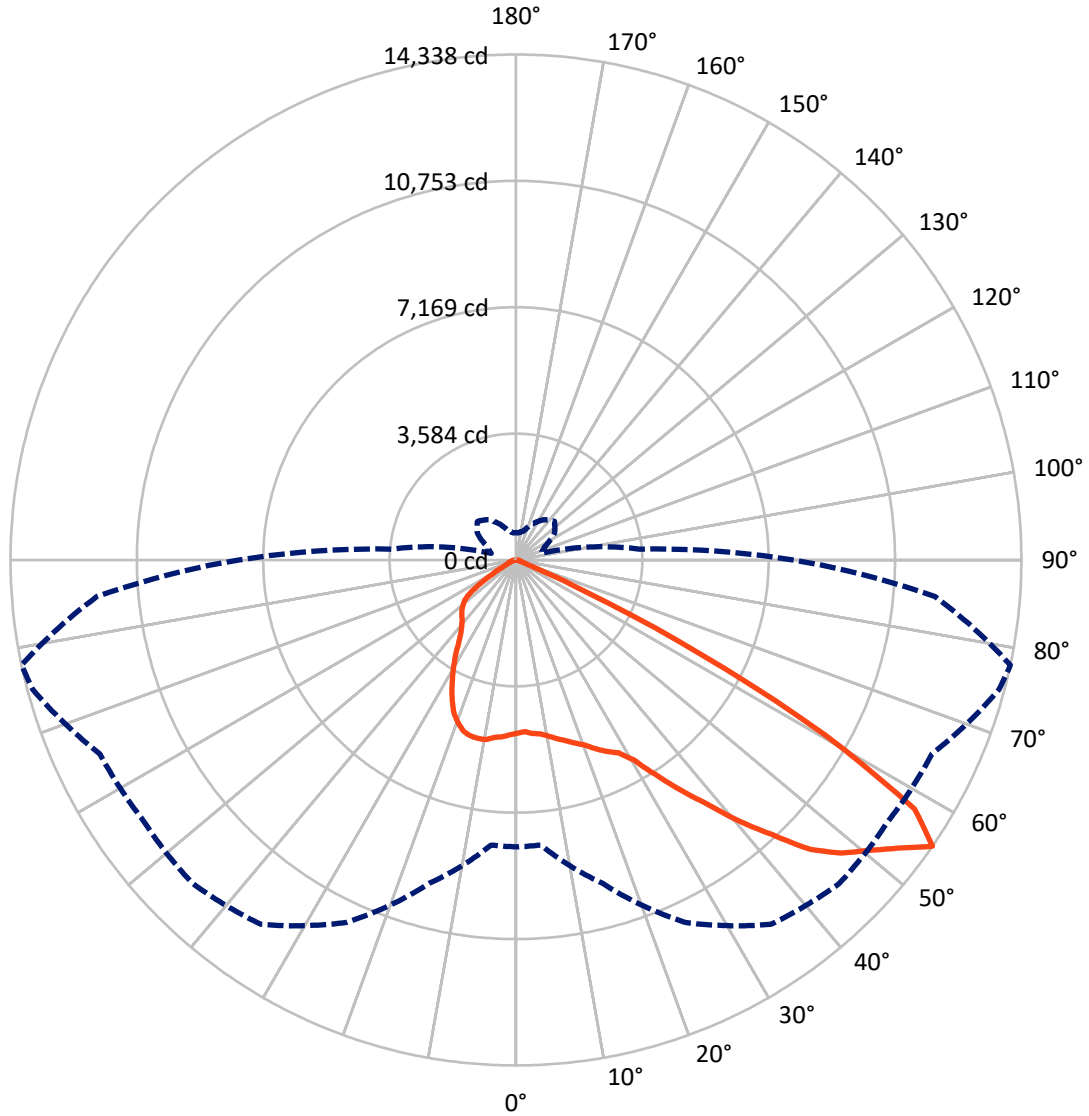
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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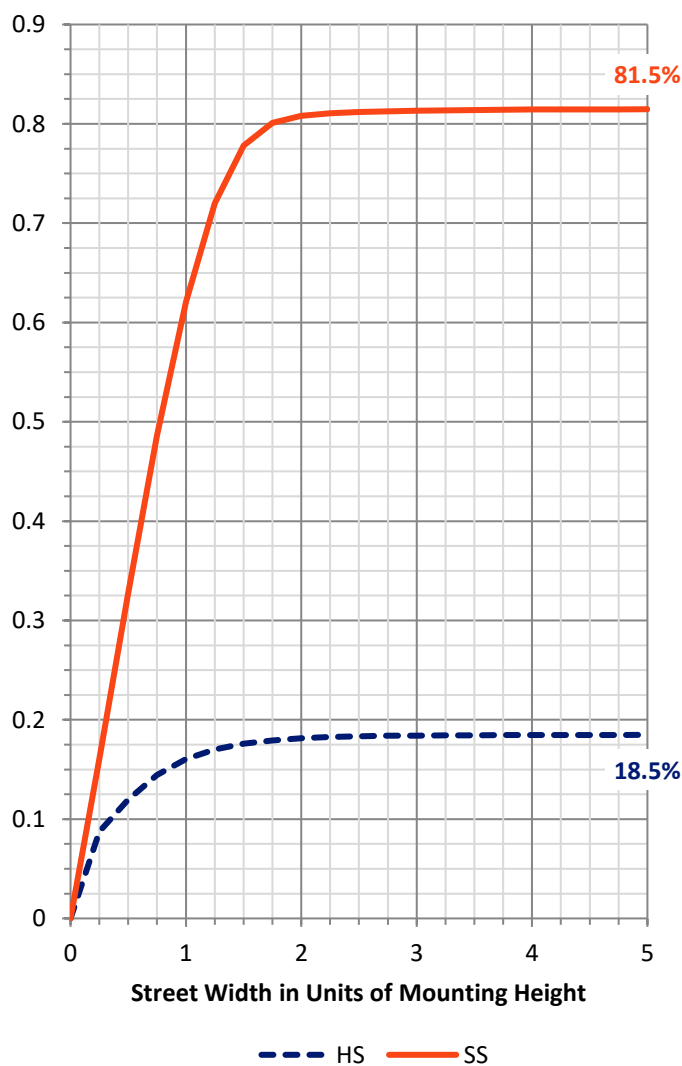
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3550.6	0.0	3550.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15565.4	0.0	15565.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	19116.0	0.0	19116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.2	2.3
10°-20°	1159.8	6.1
20°-30°	2032.9	10.6
30°-40°	3352.0	17.5
40°-50°	4877.6	25.5
50°-60°	5526.9	28.9
60°-70°	1580.2	8.3
70°-80°	122.7	0.6
80°-90°	25.5	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°	19116.0	100.0
0°-180°	19116.0	100.0

Coefficient of Utilization



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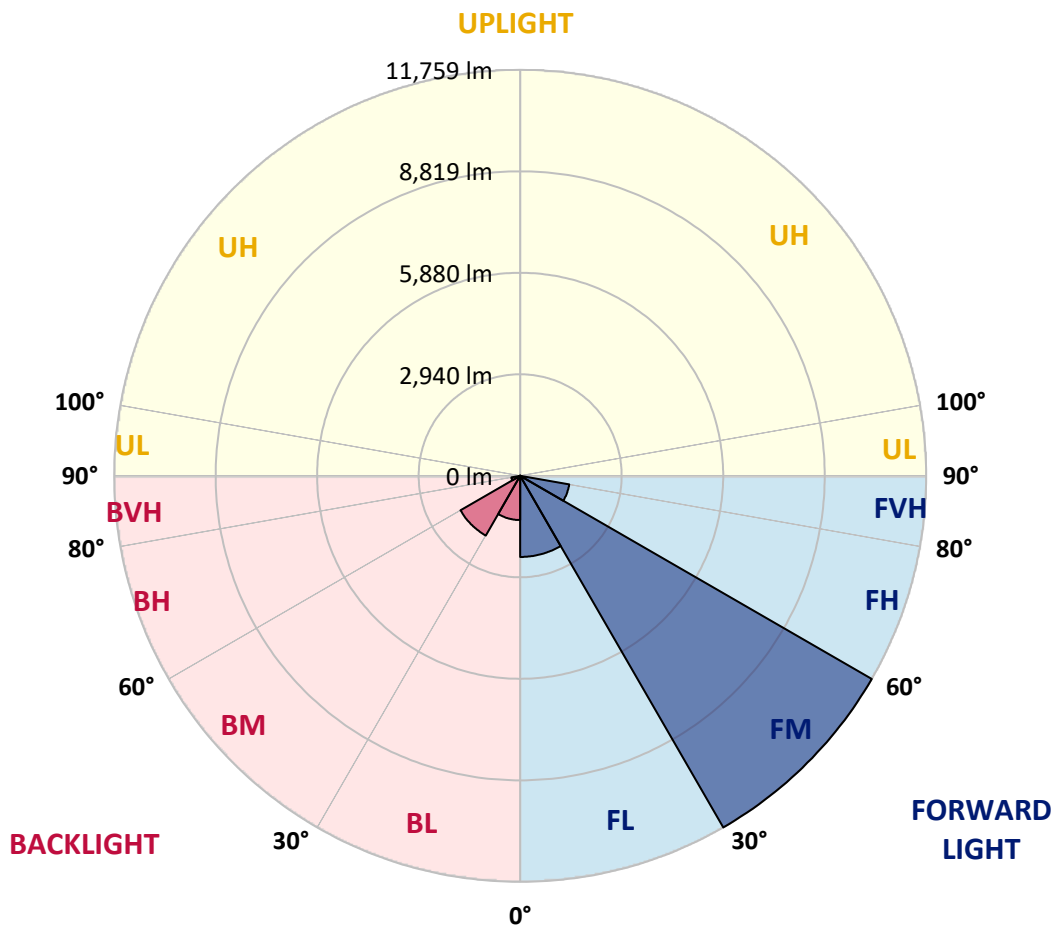
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2349.9	12.3			
FM (30°-60°)	11759.3	61.5			
FH (60°-80°)	1443.8	7.6			G1/1800
FVH (80°-90°)	12.4	0.1			G1/100
BL (0°-30°)	1281.1	6.7	B3/2500		
BM (30°-60°)	1997.3	10.4	B2/2500		
BH (60°-80°)	259.2	1.4	B1/500		G1/500
BVH (80°-90°)	13.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4914.7	4914.7	4914.7	4914.7	4914.7	4914.7	4914.7	4914.7	4914.7	4914.7	4914.7
2.5°	4620.8	4665.2	4672.1	4726.8	4723.3	4815.6	4843.0	4846.4	4907.9	4877.1	4955.7
5°	4490.9	4467.0	4456.8	4552.5	4579.8	4661.8	4730.2	4771.2	4897.6	4942.1	5024.1
7.5°	4374.7	4374.7	4381.6	4467.0	4456.8	4562.7	4634.5	4760.9	4945.5	4983.1	5082.2
10°	4261.9	4220.9	4272.2	4361.1	4436.2	4484.1	4634.5	4754.1	4969.4	5078.8	5215.5
12.5°	4203.8	4224.3	4231.2	4296.1	4378.1	4521.7	4603.7	4801.9	5140.3	5205.2	5352.2
15°	4569.5	4528.5	4429.4	4371.3	4439.7	4508.0	4713.1	4914.7	5229.2	5321.4	5485.5
17.5°	4993.3	4959.2	4877.1	4719.9	4566.1	4692.6	4853.2	5037.8	5324.9	5461.6	5704.2
20°	5547.0	5492.3	5410.3	5102.7	4969.4	4832.7	5003.6	5222.3	5482.1	5605.1	5854.6
22.5°	6206.6	6206.6	6022.1	5649.6	5372.7	5242.8	5314.6	5441.1	5656.4	5823.9	6069.9
25°	6893.6	6873.1	6705.6	6319.4	5851.2	5697.4	5779.4	5868.3	5926.4	6018.7	6182.7
27.5°	7679.7	7560.1	7348.2	6921.0	6507.4	6210.1	6298.9	6220.3	6148.5	6196.4	6432.2
30°	8212.9	8288.1	8018.1	7607.9	7218.3	6886.8	6903.9	6835.5	6507.4	6575.8	6715.9
32.5°	8766.5	8814.4	8664.0	8438.4	8048.8	7662.6	7522.5	7464.4	7218.3	7249.1	7112.4
35°	9227.9	9320.2	9186.9	9087.8	8975.0	8664.0	8277.8	8465.8	8069.3	7994.1	7638.7
37.5°	9651.7	9624.4	9781.6	9679.1	9655.2	9436.4	9012.6	9050.2	8783.6	8766.5	8356.4
40°	10031.1	10038.0	10253.3	10301.1	10205.4	9815.8	9200.6	9497.9	9713.3	9733.8	9207.4
42.5°	10345.6	10437.8	10622.4	11008.6	10865.1	10215.7	9395.4	9720.1	10519.9	10646.3	10014.0
45°	10619.0	10806.9	11035.9	11381.1	11299.1	10783.0	9880.7	10178.1	11381.1	11712.7	10772.8
47.5°	10636.1	10882.1	11131.6	11644.3	11746.8	11087.2	10383.1	10902.6	12064.7	12423.5	11326.4
50°	10567.7	10697.6	11196.6	11753.7	11986.1	11582.8	11087.2	11511.0	12727.7	12953.3	11606.7
52.5°	9757.7	9856.8	10858.2	11856.2	12416.7	12143.3	12020.3	12358.6	13404.4	13571.9	11869.9
55°	8134.3	8117.2	9494.5	11340.1	12614.9	12973.8	12898.6	13018.2	14187.1	14337.5	11934.8
57.5°	5564.1	5875.1	7064.5	9443.3	11401.6	12779.0	12857.6	12659.4	13274.6	13332.7	10403.7
60°	3000.8	3130.7	4087.6	6302.3	8681.1	10413.9	10619.0	10260.1	10212.3	10048.2	7426.8
62.5°	1192.8	1257.7	1801.2	3120.4	4730.2	6329.7	6770.6	6623.6	6309.2	5878.5	3845.0
65°	567.3	608.4	895.5	1459.4	2098.5	2638.5	3079.4	3216.1	2371.9	2136.1	1268.0
67.5°	386.2	417.0	652.8	833.9	748.5	782.7	1018.5	946.7	557.1	475.1	352.0
70°	293.9	314.4	522.9	567.3	334.9	235.8	263.2	246.1	229.0	232.4	229.0
72.5°	208.5	225.6	382.8	334.9	147.0	109.4	140.1	167.5	167.5	167.5	164.1
75°	126.5	143.5	222.2	129.9	58.1	58.1	88.9	112.8	119.6	123.0	116.2
77.5°	64.9	82.0	75.2	37.6	37.6	44.4	64.9	78.6	85.4	85.4	82.0
80°	13.7	13.7	13.7	20.5	37.6	47.8	64.9	71.8	82.0	82.0	75.2
82.5°	0.0	3.4	10.3	20.5	34.2	44.4	61.5	71.8	82.0	85.4	78.6
85°	0.0	3.4	6.8	13.7	23.9	27.3	23.9	20.5	20.5	20.5	20.5
87.5°	0.0	0.0	3.4	3.4	3.4	6.8	6.8	6.8	6.8	6.8	6.8
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°	4914.7	4914.7	4914.7	4914.7	4914.7	4914.7	4914.7	4914.7	4914.7	4914.7	4914.7
2.5°	4962.6	4972.8	4955.7	4952.3	4938.7	4979.7	4880.6	4856.6	4918.2	4860.1	4873.7
5°	5027.5	5051.4	5020.7	4969.4	4894.2	4778.0	4678.9	4549.0	4487.5	4443.1	4436.2
7.5°	5075.4	5092.5	5061.7	4897.6	4672.1	4378.1	4159.4	3998.8	3872.3	3834.7	3773.2
10°	5270.2	5273.6	5119.8	4757.5	4316.6	3930.4	3595.5	3349.4	3222.9	3144.3	3110.2
12.5°	5400.1	5393.2	5082.2	4480.7	3892.8	3380.2	2997.4	2700.0	2583.8	2546.2	2522.3
15°	5564.1	5526.5	4993.3	4197.0	3346.0	2792.3	2447.1	2242.0	2231.8	2207.9	2231.8
17.5°	5694.0	5588.0	4863.5	3680.9	2823.1	2300.2	2074.6	2088.2	2115.6	2139.5	2142.9
20°	5905.9	5687.1	4566.1	3229.8	2337.7	1972.0	1968.6	2030.1	2098.5	2125.8	2153.2
22.5°	6066.5	5728.2	4248.3	2747.9	1941.3	1838.8	1896.9	1989.1	2040.4	2067.7	2108.8
25°	6124.6	5615.4	3824.5	2266.0	1749.9	1777.2	1866.1	1927.6	1992.6	2023.3	2006.2
27.5°	6182.7	5557.3	3318.6	1866.1	1647.4	1736.2	1811.4	1872.9	1893.4	1934.5	1961.8
30°	6322.9	5355.6	2864.1	1613.2	1596.1	1708.9	1763.6	1784.1	1838.8	1862.7	1862.7
32.5°	6435.6	5277.0	2382.2	1493.6	1589.3	1722.5	1729.4	1729.4	1736.2	1719.1	1712.3
35°	6668.0	5007.0	1951.5	1421.8	1585.8	1726.0	1743.1	1685.0	1527.7	1466.2	1449.1
37.5°	6955.1	4832.7	1633.7	1404.7	1609.8	1767.0	1794.3	1575.6	1370.5	1271.4	1254.3
40°	7303.7	4709.7	1425.2	1397.9	1664.4	1862.7	1780.7	1490.1	1223.6	1080.0	1073.2
42.5°	7710.5	4596.9	1285.1	1394.4	1732.8	1961.8	1767.0	1418.4	1073.2	977.5	991.1
45°	8035.1	4535.4	1189.4	1370.5	1756.7	2019.9	1777.2	1291.9	1011.7	950.1	957.0
47.5°	8288.1	4405.5	1110.8	1329.5	1753.3	2040.4	1685.0	1240.6	980.9	998.0	1015.1
50°	8294.9	4231.2	1011.7	1240.6	1702.0	2002.8	1579.0	1192.8	974.1	1045.8	1080.0
52.5°	8202.6	3985.1	905.7	1114.2	1582.4	1872.9	1483.3	1172.3	943.3	936.5	977.5
55°	7874.5	3523.7	728.0	902.3	1336.3	1544.8	1397.9	1134.7	851.0	772.4	779.2
57.5°	6363.9	2525.7	536.6	646.0	946.7	1131.3	1261.2	1117.6	765.6	656.2	659.6
60°	3940.7	1432.0	393.0	440.9	584.4	687.0	1021.9	1039.0	683.6	553.7	546.8
62.5°	2023.3	707.5	304.2	311.0	358.9	403.3	700.6	871.5	618.6	526.3	526.3
65°	676.7	348.6	266.6	239.2	239.2	249.5	423.8	604.9	522.9	440.9	440.9
67.5°	290.5	259.7	232.4	208.5	191.4	181.1	239.2	352.0	389.6	334.9	321.3
70°	225.6	218.7	201.6	174.3	150.4	136.7	140.1	181.1	222.2	215.3	208.5
72.5°	167.5	167.5	160.6	136.7	116.2	99.1	92.3	95.7	106.0	109.4	112.8
75°	116.2	119.6	119.6	106.0	85.4	71.8	61.5	51.3	41.0	34.2	30.8
77.5°	78.6	82.0	88.9	78.6	64.9	47.8	37.6	27.3	17.1	6.8	6.8
80°	68.4	78.6	85.4	78.6	68.4	51.3	37.6	20.5	10.3	0.0	0.0
82.5°	71.8	78.6	88.9	75.2	64.9	47.8	37.6	23.9	10.3	3.4	0.0
85°	17.1	17.1	20.5	23.9	30.8	34.2	27.3	17.1	10.3	3.4	0.0
87.5°	6.8	6.8	6.8	6.8	6.8	3.4	3.4	3.4	3.4	0.0	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)