

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: P648045

Luminaire Tested: **GALN-SA7A-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20631.2 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

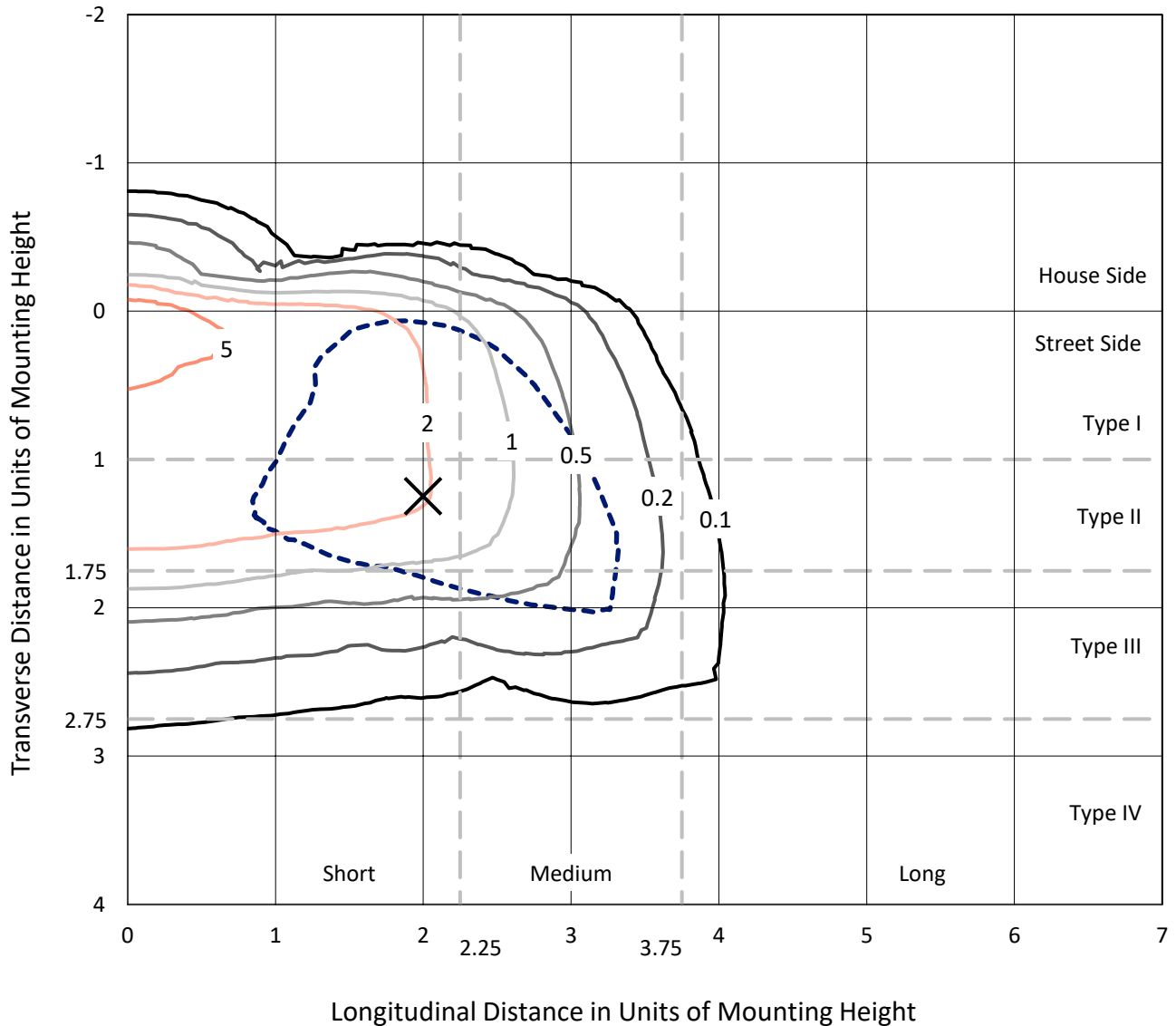
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

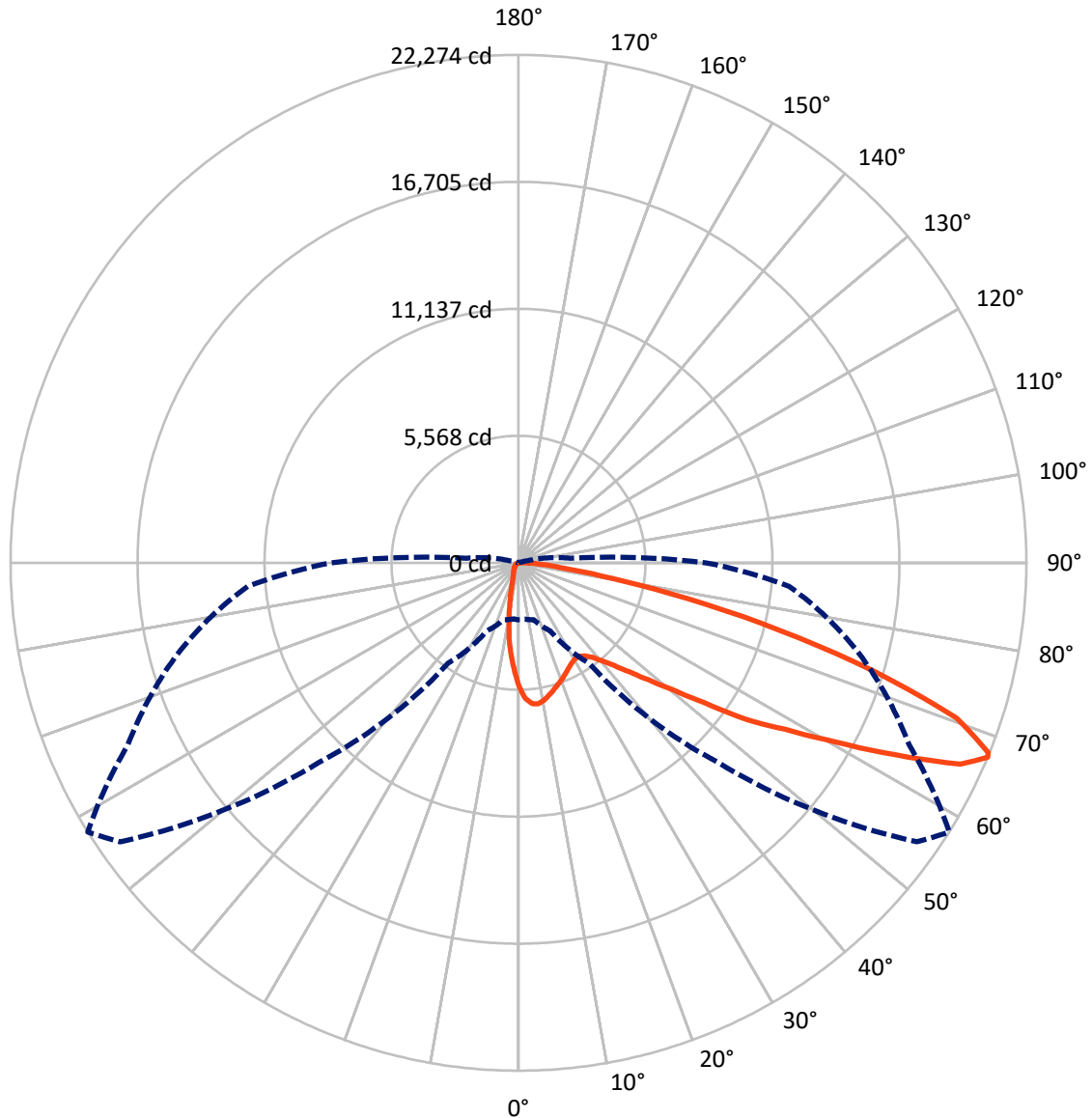
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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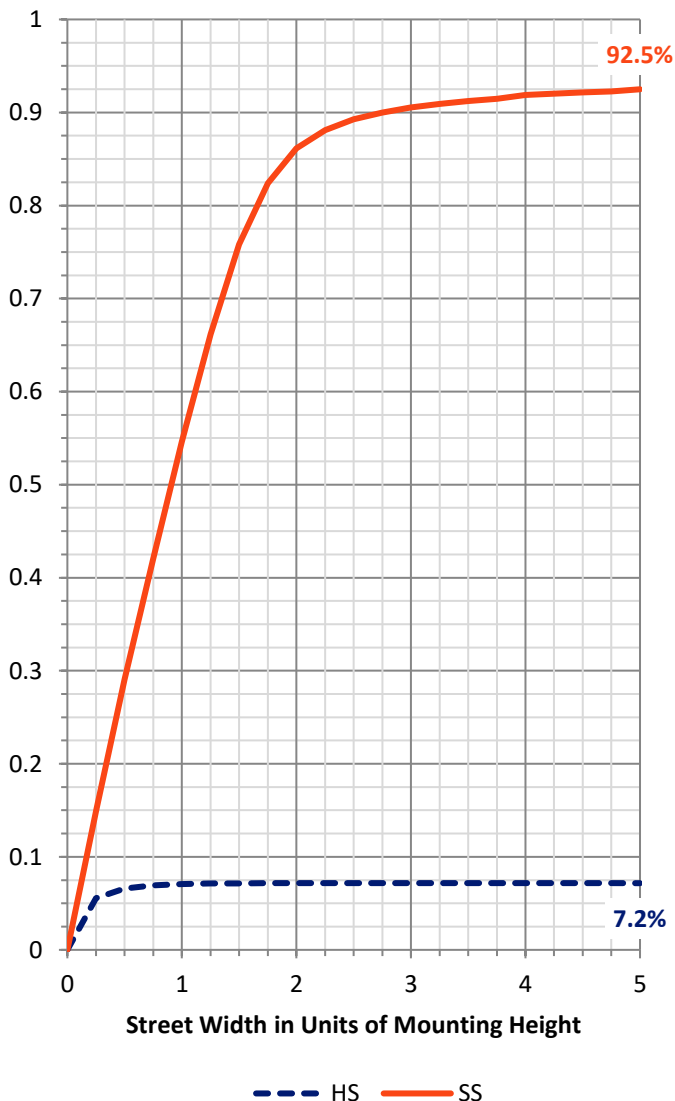
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1488.9	0.0	1488.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	19142.4	0.0	19142.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	20631.2	0.0	20631.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.8	2.2
10°-20°	958.5	4.6
20°-30°	1298.9	6.3
30°-40°	1801.5	8.7
40°-50°	2873.1	13.9
50°-60°	4966.4	24.1
60°-70°	5673.2	27.5
70°-80°	2365.2	11.5
80°-90°	250.8	1.2
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°	20631.2	100.0
0°-180°	20631.2	100.0

Coefficient of Utilization



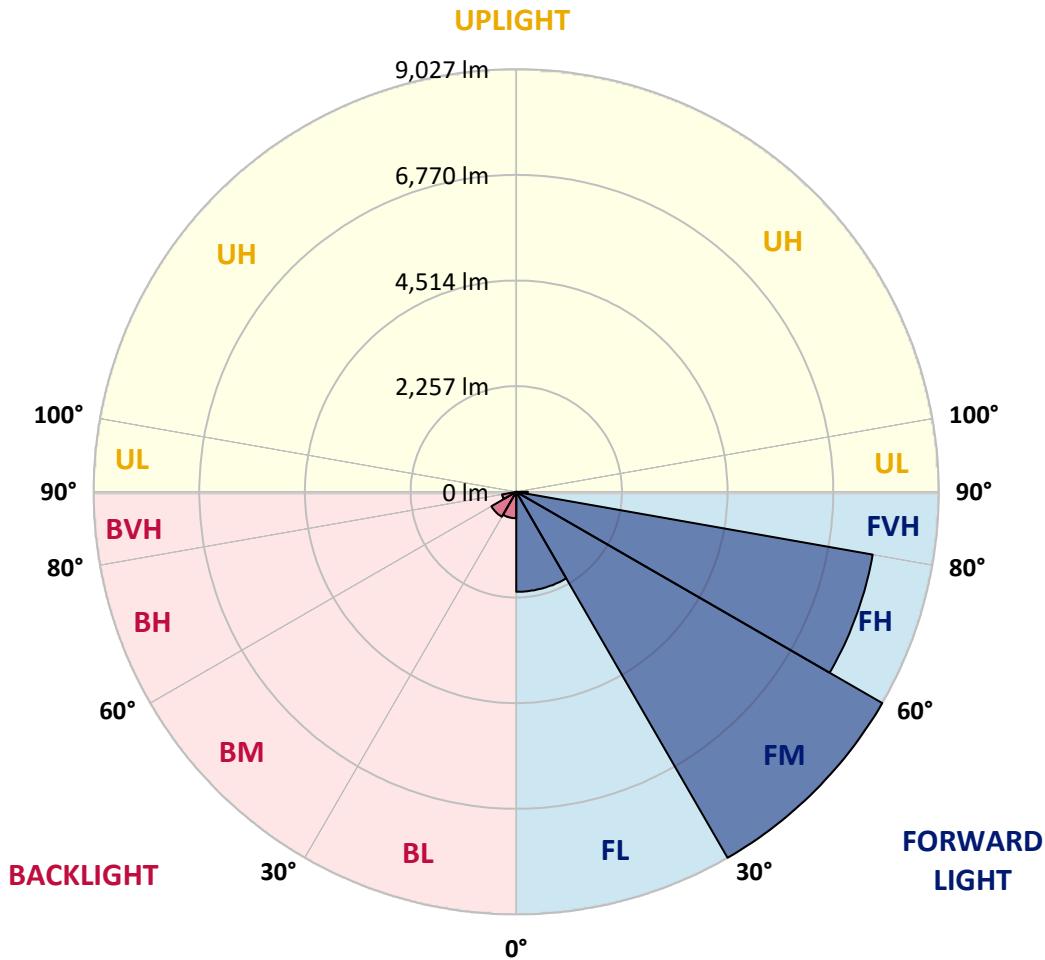
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2135.8	10.4			
FM (30°-60°)	9027.0	43.8			
FH (60°-80°)	7730.6	37.5			G4/12000
FVH (80°-90°)	249.0	1.2			G3/500
BL (0°-30°)	565.4	2.7	B2/1000		
BM (30°-60°)	613.9	3.0	B1/1000		
BH (60°-80°)	307.8	1.5	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5469.2	5469.2	5469.2	5469.2	5469.2	5469.2	5469.2	5469.2	5469.2	5469.2	5469.2
2.5°	6347.4	6357.0	6321.2	6292.2	6217.8	6137.8	6031.7	5975.2	5878.6	5711.8	5527.0
5°	6496.2	6508.7	6503.1	6496.2	6467.3	6390.1	6255.0	6205.4	6063.4	5791.8	5458.1
7.5°	6165.4	6210.9	6216.4	6270.2	6321.2	6328.0	6277.1	6239.8	6108.9	5790.4	5335.4
10°	5726.9	5757.3	5801.4	5863.5	5986.2	6088.2	6137.8	6132.3	6056.5	5747.6	5192.1
12.5°	5284.4	5301.0	5368.5	5474.7	5624.9	5798.7	5931.0	5957.2	5958.6	5696.6	5072.1
15°	4903.9	4897.0	4949.4	5072.1	5283.1	5500.9	5738.0	5779.3	5845.6	5647.0	4960.5
17.5°	4578.5	4614.4	4622.7	4757.7	4952.2	5234.8	5536.7	5609.8	5742.1	5604.2	4868.1
20°	4377.3	4396.5	4414.5	4490.3	4665.4	4963.2	5347.8	5448.5	5645.7	5565.6	4764.6
22.5°	4318.0	4330.4	4315.2	4338.7	4462.7	4727.4	5142.4	5276.2	5553.3	5529.9	4680.5
25°	4363.5	4375.9	4340.0	4312.5	4355.2	4535.8	4943.9	5106.6	5478.8	5522.9	4617.1
27.5°	4473.7	4497.2	4447.6	4398.0	4373.1	4432.4	4788.1	4977.0	5427.8	5556.0	4588.2
30°	4646.1	4659.9	4622.7	4562.0	4505.5	4446.2	4706.8	4887.3	5414.0	5633.2	4585.4
32.5°	4833.6	4862.5	4841.8	4801.9	4728.9	4588.2	4730.2	4890.1	5447.1	5744.9	4619.9
35°	5065.2	5098.3	5117.6	5109.3	5015.6	4840.5	4879.1	5014.2	5535.3	5950.3	4713.7
37.5°	5292.7	5321.7	5430.6	5467.8	5385.1	5219.6	5168.6	5258.2	5729.8	6219.1	4883.3
40°	5553.3	5591.9	5744.9	5886.9	5846.9	5673.2	5579.4	5653.9	6027.5	6624.5	5204.4
42.5°	5802.8	5871.7	6104.7	6355.6	6392.9	6198.5	6136.4	6161.3	6468.7	7207.7	5652.6
45°	6157.1	6221.9	6522.5	6863.0	7038.1	6886.4	6823.0	6818.8	7073.9	8027.9	6379.1
47.5°	6668.6	6726.5	7080.8	7417.2	7728.8	7749.5	7629.6	7670.9	7834.9	8987.5	7269.7
50°	7295.9	7432.4	7665.3	8015.6	8431.9	8768.3	8805.5	8750.4	8891.0	10098.7	8339.6
52.5°	8207.2	8259.6	8473.2	8761.4	9249.4	9820.2	10262.8	10186.9	10142.8	11157.5	9420.4
55°	8886.9	8957.2	9289.4	9685.1	10400.7	11153.4	12112.9	12139.2	11582.1	12174.9	10477.9
57.5°	8681.4	8789.0	9292.2	10087.7	11660.7	13036.6	13750.8	13768.7	12913.9	13163.5	11671.8
60°	7626.7	7677.8	8398.8	9460.4	11768.3	15077.1	16073.8	15929.1	14269.2	14269.2	12726.4
62.5°	5408.5	5488.4	6073.0	7635.0	10628.1	15785.7	18856.0	18556.8	16135.9	15326.6	13355.1
65°	3456.3	3379.1	3766.5	4819.8	7917.7	14739.3	21278.3	21296.2	17892.3	15749.9	13011.8
67°	2503.6	2473.3	2585.0	3295.0	5368.5	12390.0	21329.3	22273.7	18901.5	15482.4	11914.4
67.5°	2290.0	2313.4	2394.7	2972.4	4877.7	11274.7	21097.7	22215.8	19128.9	15321.1	11517.4
70°	1735.8	1695.7	1784.0	2102.4	2924.1	7112.5	18148.8	20375.3	18846.3	13720.4	9202.6
72.5°	1276.7	1272.5	1395.2	1719.2	2251.4	3788.5	13624.0	16337.1	15396.9	10447.5	5794.5
75°	861.7	900.3	1096.0	1436.6	2040.4	2456.7	9288.0	11852.3	10688.8	5932.4	2368.6
77.5°	490.8	493.5	705.9	1153.9	1832.2	1977.0	5503.6	7550.9	5658.0	1972.8	703.1
80°	212.3	233.0	350.2	838.2	1519.3	1750.9	3155.7	4149.7	2288.6	417.7	227.5
82.5°	78.6	92.4	154.4	515.6	1108.4	1442.1	1906.7	1981.1	776.2	147.5	142.0
85°	0.0	2.7	56.5	241.2	577.7	643.9	1273.9	1174.7	343.3	70.3	92.4
87.5°	0.0	0.0	0.0	24.8	75.8	239.9	395.6	441.1	82.7	24.8	22.1
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°	5469.2	5469.2	5469.2	5469.2	5469.2	5469.2	5469.2	5469.2	5469.2	5469.2	5469.2
2.5°	5427.8	5338.2	5113.5	4888.7	4722.0	4582.7	4373.1	4258.7	4198.1	4108.4	4114.0
5°	5291.3	5109.3	4713.7	4304.2	3973.3	3650.7	3264.6	3108.9	2977.9	2903.4	2853.8
7.5°	5088.6	4819.8	4233.8	3687.9	3179.2	2615.3	2192.1	1909.4	1719.2	1648.9	1581.3
10°	4866.7	4509.6	3747.2	2990.4	2284.5	1702.6	1344.2	1085.0	992.6	907.2	915.4
12.5°	4661.3	4226.9	3300.5	2360.3	1600.6	1082.3	843.8	737.6	707.3	697.6	697.6
15°	4493.1	3956.7	2820.8	1774.4	1097.5	777.6	675.6	646.6	635.6	632.8	632.8
17.5°	4313.9	3700.3	2387.8	1311.1	798.3	650.8	616.3	597.0	592.8	590.1	590.1
20°	4153.9	3442.5	1977.0	976.1	645.2	585.9	563.8	551.5	547.3	544.6	546.0
22.5°	4002.2	3213.7	1591.0	737.6	568.0	533.5	511.5	499.1	490.8	483.9	485.3
25°	3867.2	2993.1	1279.4	603.8	511.5	481.2	459.1	441.1	423.2	415.0	413.6
27.5°	3772.0	2800.1	996.8	517.0	460.5	427.4	399.8	377.7	354.3	341.9	339.1
30°	3693.4	2604.3	788.6	456.3	409.4	377.7	343.3	311.6	286.7	274.4	268.8
32.5°	3642.4	2418.1	621.8	406.7	366.8	328.2	289.6	257.8	230.2	217.8	215.1
35°	3634.1	2262.4	508.7	365.3	328.2	286.7	246.8	212.3	188.9	176.5	173.7
37.5°	3693.4	2142.4	426.0	332.2	296.4	251.0	206.8	175.1	154.4	144.8	143.4
40°	3852.0	2066.7	369.5	304.7	267.5	217.8	176.5	148.9	128.2	118.5	118.5
42.5°	4153.9	2069.4	332.2	278.5	238.5	186.1	150.3	124.1	106.2	97.9	95.1
45°	4625.4	2163.1	300.5	252.3	210.9	161.3	128.2	102.0	84.1	77.2	77.2
47.5°	5256.8	2349.2	273.0	226.1	186.1	137.9	108.9	82.7	67.6	60.7	60.7
50°	6082.7	2648.4	249.5	204.0	165.4	118.5	88.2	67.6	52.4	46.9	45.5
52.5°	6945.7	3017.9	222.0	184.7	142.0	100.6	71.7	52.4	40.0	35.9	34.5
55°	7898.4	3379.1	195.8	165.4	115.8	84.1	56.5	41.3	29.0	24.8	24.8
57.5°	8859.3	3733.4	164.0	137.9	91.0	62.0	44.1	30.3	19.3	15.2	15.2
60°	9672.7	3847.8	139.2	111.7	68.9	44.1	31.7	19.3	11.0	6.9	6.9
62.5°	9784.4	3461.8	117.2	85.5	49.6	30.3	16.5	11.0	4.1	2.7	2.7
65°	9177.8	2812.5	97.9	64.8	33.1	15.2	6.9	4.1	1.4	0.0	0.0
67°	8223.7	2280.3	79.9	48.2	23.4	9.6	4.1	1.4	0.0	0.0	0.0
67.5°	7979.7	2174.2	77.2	45.5	20.7	8.3	2.7	1.4	0.0	0.0	0.0
70°	6261.9	1628.2	55.1	27.6	12.4	5.5	0.0	0.0	0.0	0.0	0.0
72.5°	3892.0	921.0	40.0	16.5	8.3	2.7	0.0	0.0	0.0	0.0	0.0
75°	1471.0	322.6	27.6	11.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	457.7	122.7	16.5	8.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	154.4	46.9	11.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	95.1	19.3	6.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	59.3	8.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	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)