

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: P451193

Luminaire Tested: **GALN-SA2A-740-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451193  
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-SA2A-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 615mA 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: 6875 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

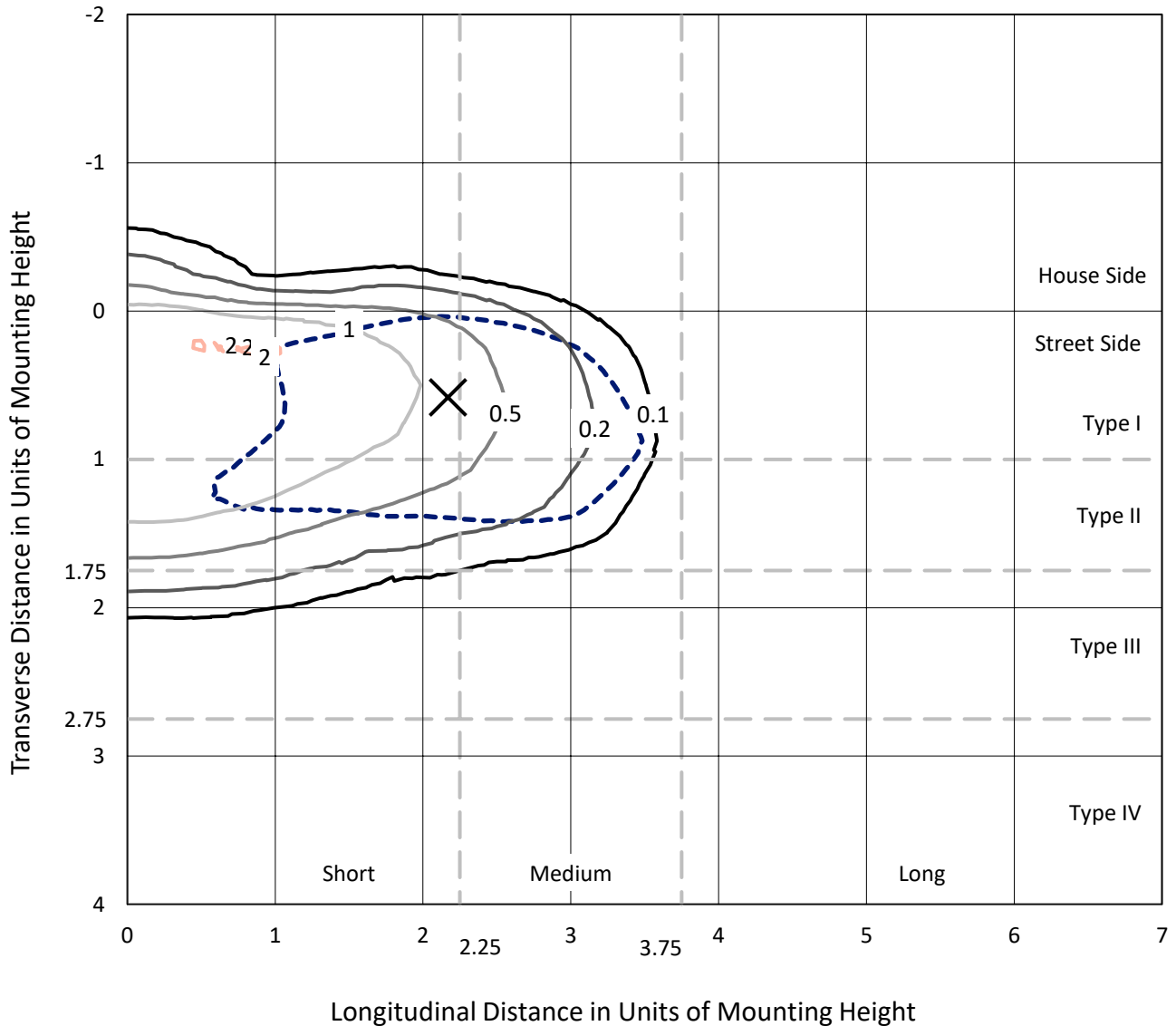
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

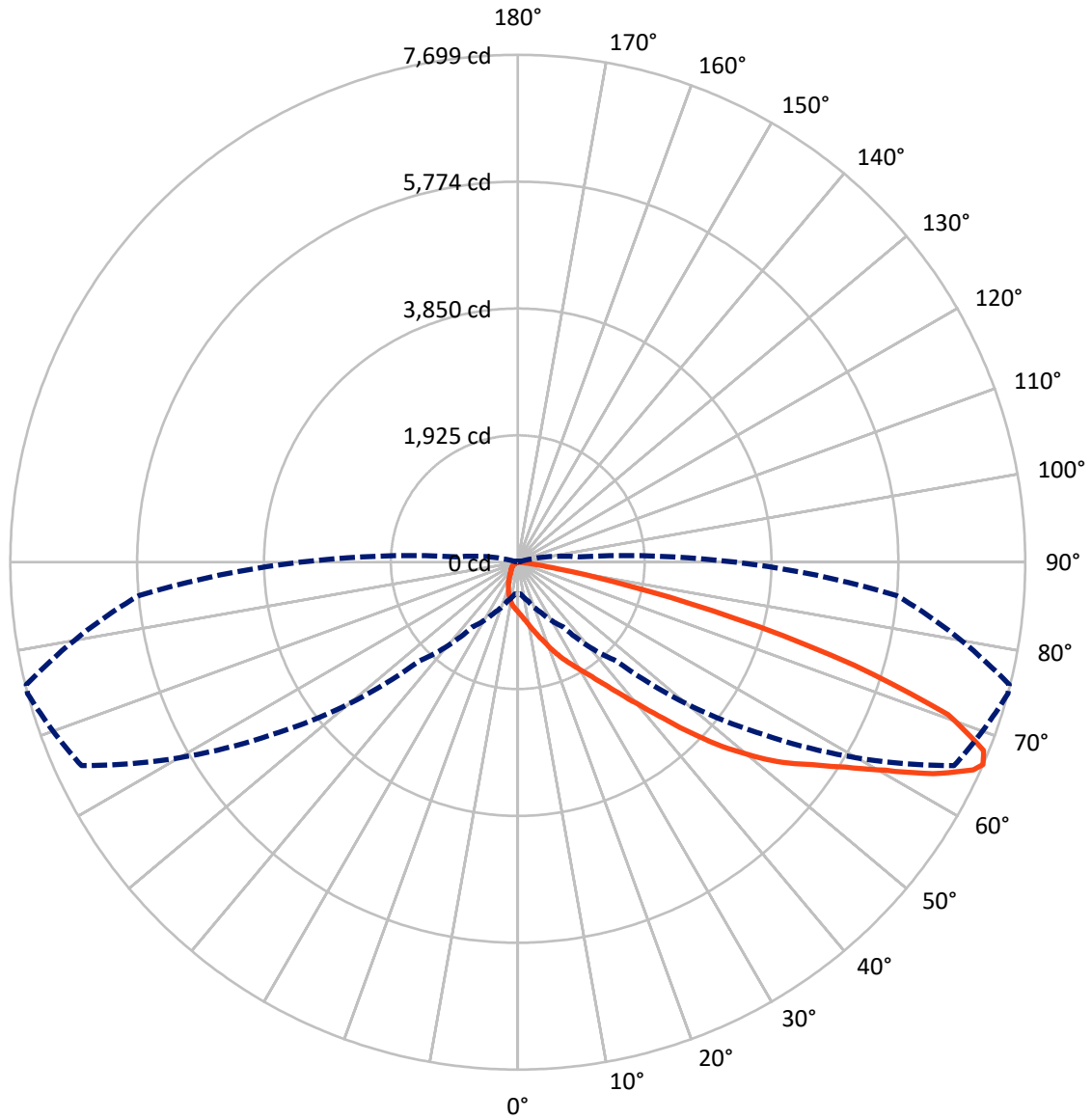
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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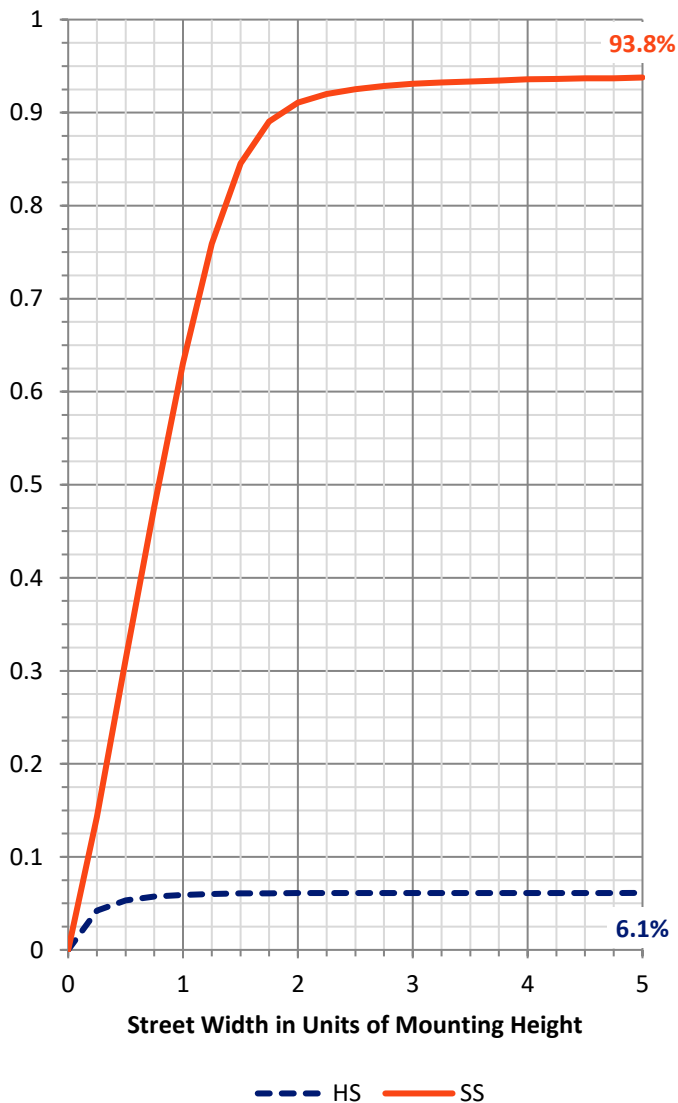
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	424.4	0.0	424.4
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	6450.6	0.0	6450.6
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	6875.0	0.0	6875.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	1.1
10°-20°	213.4	3.1
20°-30°	368.5	5.4
30°-40°	664.8	9.7
40°-50°	1200.9	17.5
50°-60°	1872.2	27.2
60°-70°	1778.5	25.9
70°-80°	666.5	9.7
80°-90°	37.6	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°	6875.0	100.0
0°-180°	6875.0	100.0



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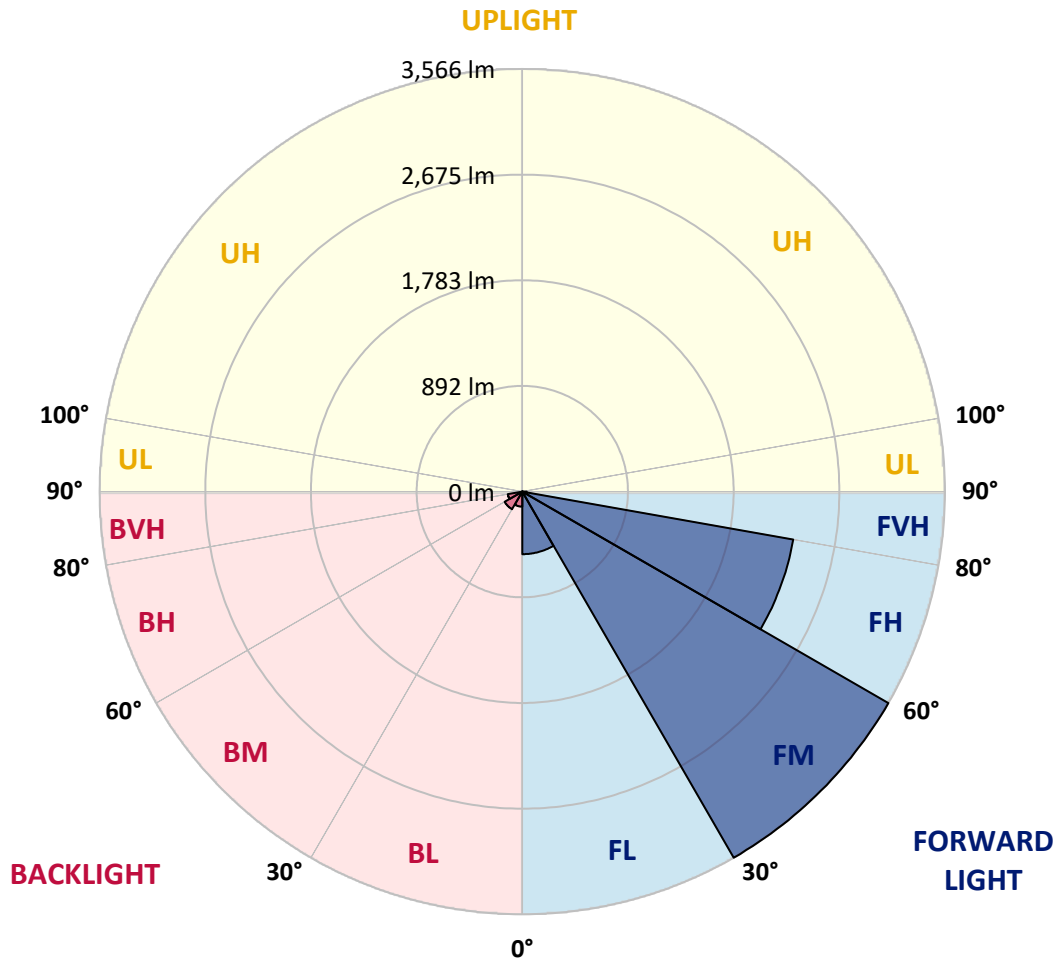
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.7	7.7			
FM (30°-60°)	3566.1	51.9			
FH (60°-80°)	2321.1	33.8			G2/5000
FVH (80°-90°)	35.7	0.5			G1/100
BL (0°-30°)	126.8	1.8	B1/500		
BM (30°-60°)	171.8	2.5	B0/220		
BH (60°-80°)	123.9	1.8	B1/500		G1/500
BVH (80°-90°)	1.9	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8
2.5°	898.3	887.1	890.6	885.5	873.9	856.6	841.3	819.5	797.6	794.0	769.6
5°	1016.7	1013.6	1009.6	994.8	986.7	960.3	928.8	891.1	845.9	837.8	793.5
7.5°	1097.5	1096.0	1098.0	1090.4	1083.3	1059.4	1025.8	974.5	904.4	899.8	826.1
10°	1124.0	1128.0	1135.7	1147.9	1159.0	1151.4	1126.0	1061.9	980.1	966.9	863.2
12.5°	1108.7	1113.3	1131.6	1164.1	1200.2	1221.1	1210.9	1164.1	1060.4	1049.7	904.9
15°	1069.6	1075.2	1101.1	1151.4	1216.0	1274.9	1300.4	1266.8	1154.0	1136.7	955.2
17.5°	1011.6	1019.7	1056.9	1123.5	1211.9	1313.6	1385.3	1374.1	1253.6	1237.3	1010.1
20°	967.9	974.0	1005.5	1081.8	1194.6	1334.9	1466.1	1497.6	1376.6	1348.7	1074.7
22.5°	996.9	998.9	1009.6	1055.3	1163.6	1340.5	1537.2	1626.2	1507.3	1482.3	1141.8
25°	1138.7	1118.4	1107.7	1097.5	1157.0	1335.4	1601.8	1760.4	1637.4	1611.0	1208.3
27.5°	1362.4	1353.2	1299.3	1227.2	1213.4	1342.0	1644.5	1887.5	1759.9	1731.4	1273.4
30°	1605.9	1590.1	1557.1	1451.3	1345.1	1388.8	1675.5	2011.0	1904.8	1867.2	1332.9
32.5°	1829.6	1839.7	1790.4	1681.6	1558.6	1488.4	1715.7	2145.7	2071.0	2024.2	1402.0
35°	2090.3	2110.7	2034.9	1930.7	1786.8	1668.4	1794.0	2297.7	2282.0	2223.0	1508.8
37.5°	2355.2	2367.4	2321.1	2174.7	2045.1	1897.2	1941.4	2485.3	2541.7	2491.4	1636.4
40°	2577.8	2594.6	2560.6	2430.4	2292.1	2162.0	2155.4	2689.7	2850.8	2799.0	1826.5
42.5°	2748.1	2760.8	2761.9	2669.9	2545.3	2486.3	2428.4	2950.5	3238.2	3178.2	2047.1
45°	2963.2	2981.5	2970.8	2908.3	2815.2	2804.6	2774.6	3265.6	3701.8	3626.1	2333.3
47.5°	3295.6	3307.8	3281.4	3207.7	3113.1	3129.9	3112.1	3618.9	4174.6	4109.5	2629.7
50°	3526.4	3546.8	3584.4	3613.9	3545.2	3483.2	3430.3	3948.9	4623.4	4565.0	2932.7
52.5°	3523.9	3557.4	3676.4	3824.8	3974.8	3956.0	3804.0	4313.3	5052.0	4979.8	3217.3
55°	3286.5	3351.5	3526.4	3789.7	4205.1	4412.0	4342.8	4735.3	5422.1	5373.3	3547.3
57.5°	2796.4	2836.1	3079.1	3447.1	4076.5	4626.5	4967.1	5307.2	5865.8	5843.0	4059.7
60°	1880.9	1898.7	2211.3	2666.3	3470.5	4412.5	5424.6	5999.0	6412.3	6401.1	4658.0
62.5°	1077.7	1085.3	1312.1	1695.9	2469.6	3739.4	5463.2	6852.6	7067.6	7073.7	5350.4
65°	580.0	584.1	767.1	995.3	1502.7	2665.3	4912.7	7320.2	7597.3	7609.0	5779.4
66°	500.7	481.4	610.5	848.4	1195.6	2121.3	4564.5	7303.5	7699.0	7686.2	5764.2
67.5°	380.8	398.0	487.5	652.2	886.1	1508.3	3768.4	6978.6	7621.7	7582.0	5529.8
70°	272.5	279.6	347.2	465.1	603.4	827.6	2408.1	5796.2	6927.3	6873.9	4817.6
72.5°	175.9	183.5	246.0	336.5	436.2	451.9	1348.1	4187.8	5340.7	5333.1	3628.1
75°	125.6	132.7	162.7	241.0	327.9	279.6	649.2	2822.4	3395.3	3372.4	2244.4
77.5°	91.0	94.6	108.8	157.6	234.3	200.3	300.9	1507.3	1690.3	1770.1	991.8
80°	52.4	55.4	75.7	96.1	158.6	136.7	143.9	604.9	623.7	593.8	310.1
82.5°	25.9	29.5	45.2	65.6	99.1	92.0	66.1	182.0	192.2	187.1	78.3
85°	6.1	7.6	25.4	43.2	48.3	41.2	32.0	53.4	66.1	64.6	30.0
87.5°	0.5	1.0	9.2	7.6	8.1	13.7	11.2	13.7	21.4	19.8	10.7
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°	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8	751.8
2.5°	758.5	748.8	720.8	693.4	670.5	646.6	624.8	612.1	607.0	601.4	603.9
5°	769.1	745.7	689.3	640.5	592.7	552.1	519.5	498.7	488.5	487.0	484.5
7.5°	783.4	743.2	655.8	579.5	517.0	471.7	434.6	404.6	395.5	387.4	380.8
10°	800.7	738.6	614.1	515.5	448.9	391.9	343.1	307.6	289.3	284.2	287.7
12.5°	819.0	730.0	570.4	456.5	379.7	307.0	261.8	244.0	238.9	236.9	237.4
15°	837.3	719.3	524.6	399.6	302.5	245.0	224.2	219.6	217.6	216.6	215.5
17.5°	854.0	702.0	473.3	344.2	245.0	209.4	201.8	197.7	193.7	192.2	189.6
20°	873.9	682.2	427.0	282.1	207.4	189.6	180.5	172.8	166.7	162.7	162.2
22.5°	892.7	656.8	378.7	233.8	189.1	170.3	155.6	147.4	140.3	135.2	136.7
25°	902.8	625.8	335.5	203.8	172.3	151.0	134.7	124.5	116.9	114.4	113.9
27.5°	902.8	587.7	293.3	186.6	157.1	133.7	116.9	107.3	102.2	98.6	99.1
30°	895.7	545.5	254.2	173.3	143.9	118.4	102.7	94.0	90.0	87.4	86.9
32.5°	890.1	505.3	220.6	160.6	130.1	105.2	91.5	84.9	80.8	78.3	78.3
35°	898.8	470.7	194.7	147.9	117.4	95.1	82.9	76.8	72.7	70.7	70.2
37.5°	921.6	439.2	174.9	134.2	105.7	86.4	76.8	69.6	65.6	63.0	62.0
40°	978.1	421.4	160.1	121.5	94.6	79.3	69.6	63.0	58.0	55.4	54.9
42.5°	1068.6	421.9	145.9	109.8	85.9	73.2	63.5	55.9	50.3	47.8	47.3
45°	1204.8	441.2	134.7	98.6	78.3	66.6	56.9	48.8	43.7	41.2	41.2
47.5°	1368.0	478.9	125.1	89.0	71.2	60.5	50.3	42.2	37.1	35.1	35.1
50°	1544.9	527.7	115.4	78.8	65.1	53.9	43.2	36.6	32.5	31.0	31.0
52.5°	1725.3	586.6	105.7	70.7	58.5	46.8	37.1	32.5	29.0	28.0	27.5
55°	1962.2	661.9	95.6	62.0	51.3	40.2	33.0	28.5	24.4	22.9	22.4
57.5°	2326.7	775.2	84.4	54.4	42.2	33.6	28.5	23.9	19.3	16.8	16.3
60°	2766.4	913.5	72.7	47.8	34.1	27.5	22.9	18.3	14.2	11.2	10.7
62.5°	3178.2	1001.4	61.5	40.2	26.9	20.8	16.3	13.7	10.2	7.1	6.6
65°	3360.2	972.0	50.8	32.5	21.4	14.7	10.7	9.7	6.1	3.1	2.5
66°	3299.7	928.2	46.8	29.5	19.3	12.7	9.2	8.1	4.6	1.5	1.5
67.5°	3121.3	825.1	40.7	25.4	16.8	10.2	7.1	6.1	2.5	0.5	0.0
70°	2674.4	667.5	32.0	18.8	12.2	7.1	4.1	3.1	1.5	0.0	0.0
72.5°	2054.2	497.2	25.4	14.2	8.6	4.1	2.0	1.0	1.5	0.0	0.0
75°	1258.7	284.2	19.8	10.7	5.6	2.5	1.5	0.0	1.5	0.5	0.0
77.5°	558.7	127.6	13.2	7.1	4.1	2.0	1.0	0.0	1.0	0.5	0.0
80°	141.3	41.7	7.6	5.1	3.1	1.5	0.5	0.0	1.0	1.0	0.5
82.5°	38.6	15.3	5.6	4.1	2.5	1.5	0.5	0.0	1.0	1.0	1.0
85°	15.3	7.1	5.1	4.1	3.1	1.5	0.5	0.0	1.0	1.0	1.0
87.5°	7.1	5.1	5.1	4.6	3.6	1.5	0.5	0.0	1.0	0.5	1.0
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)