

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: P458592

Luminaire Tested: **GALN-SA1C-735-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458592  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4865 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

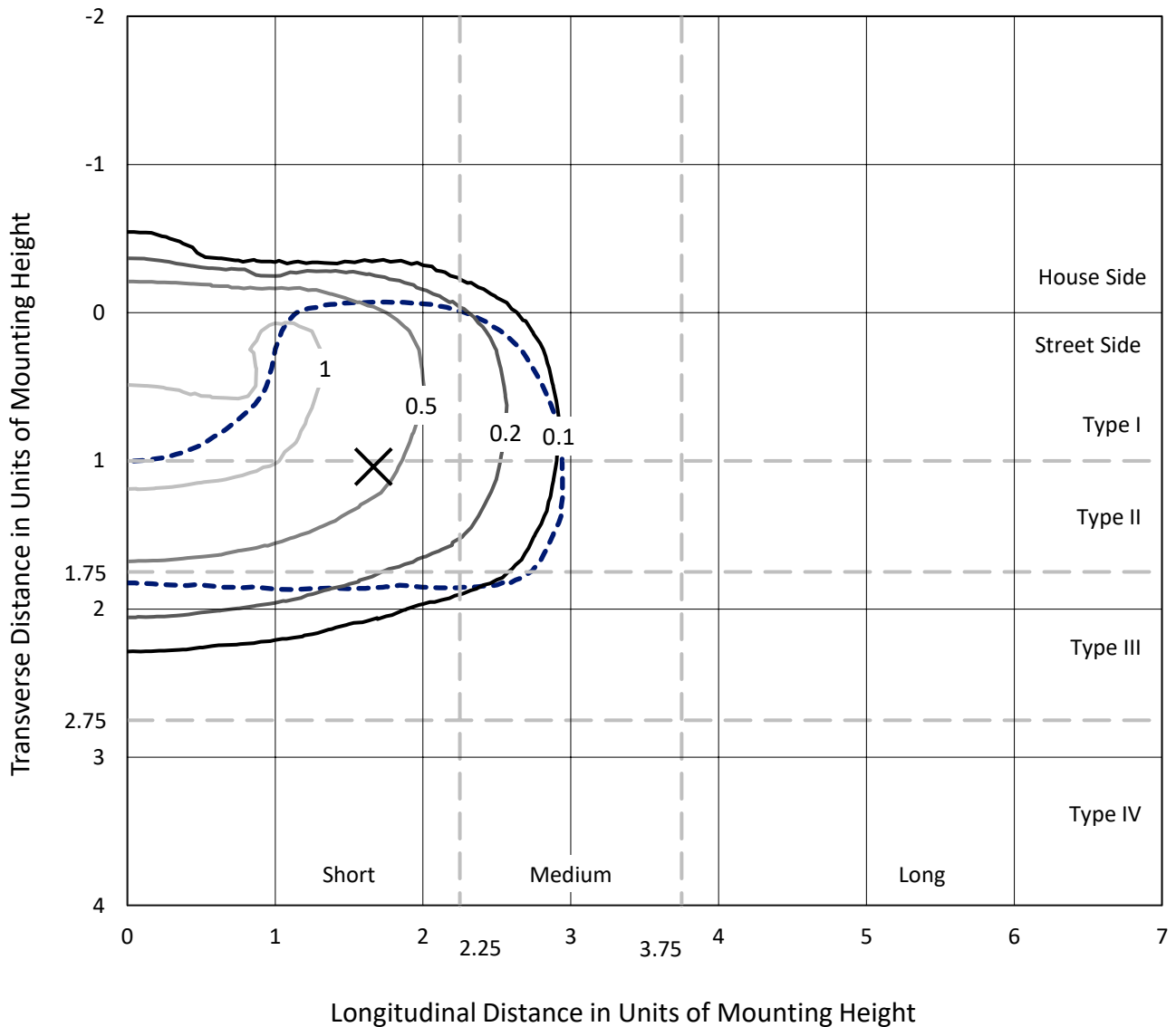
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458592  
 CATALOG NUMBER: GALN-SA1C-735-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

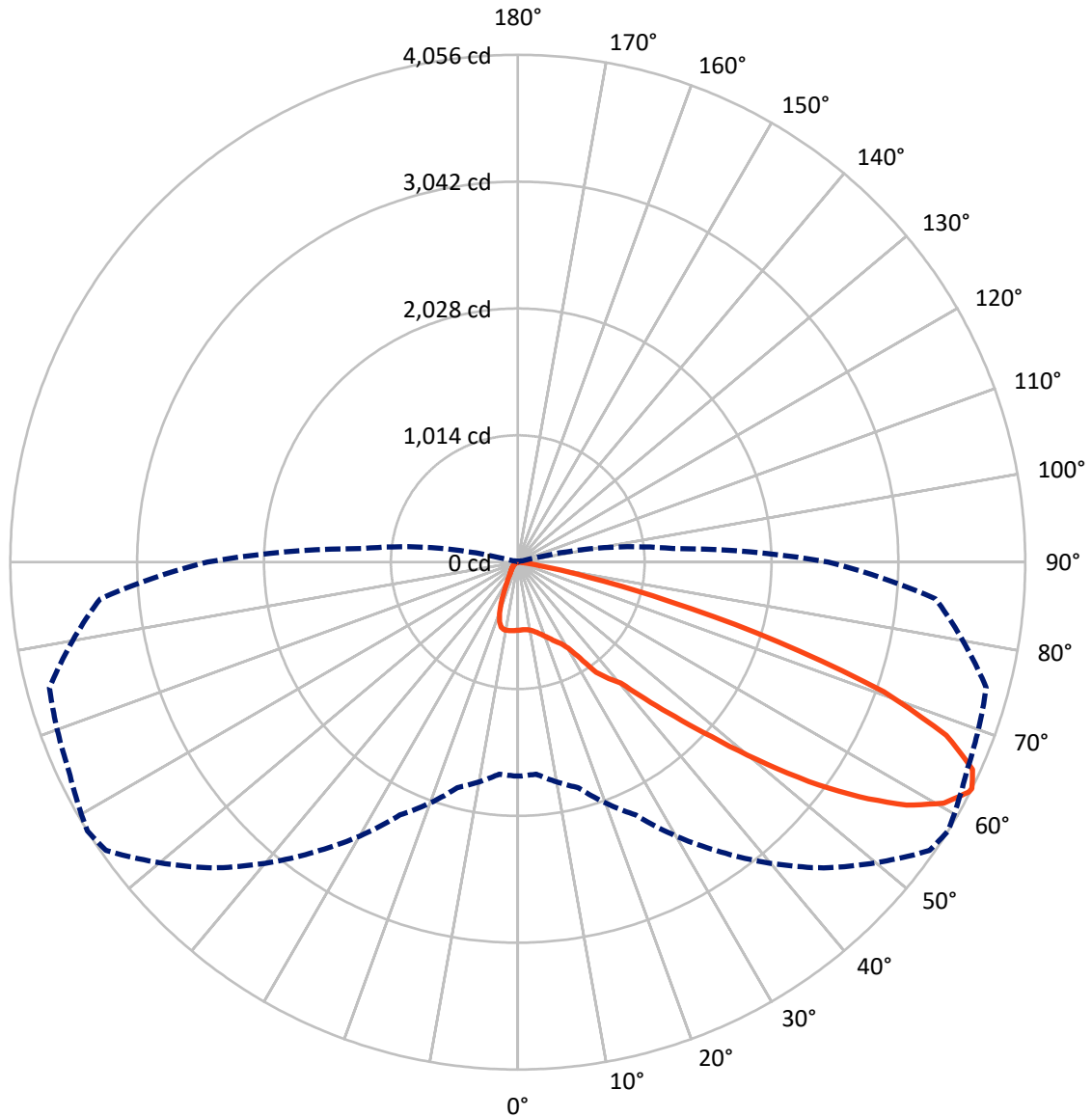
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P458592  
CATALOG NUMBER: GALN-SA1C-735-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P458592

CATALOG NUMBER: GALN-SA1C-735-U-T3-HSS

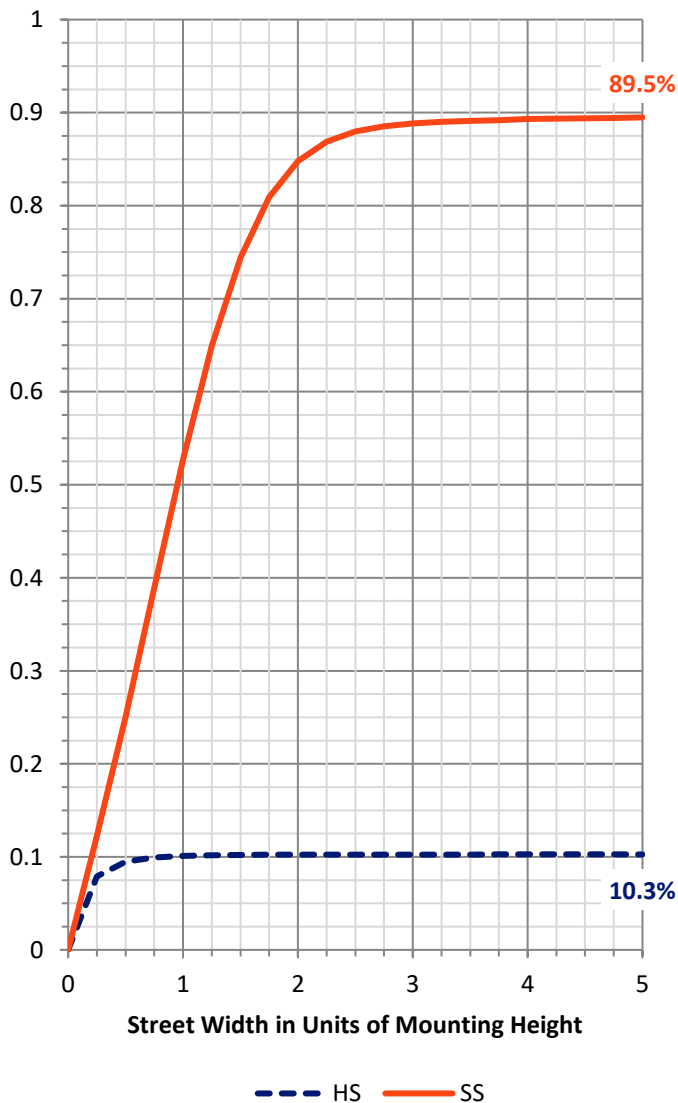
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	503.7	0.0	503.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	4361.3	0.0	4361.3
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	4865.0	0.0	4865.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.0	1.0
10°-20°	138.9	2.9
20°-30°	241.0	5.0
30°-40°	442.9	9.1
40°-50°	833.7	17.1
50°-60°	1426.1	29.3
60°-70°	1365.4	28.1
70°-80°	348.2	7.2
80°-90°	17.8	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°	4865.0	100.0
0°-180°	4865.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P458592

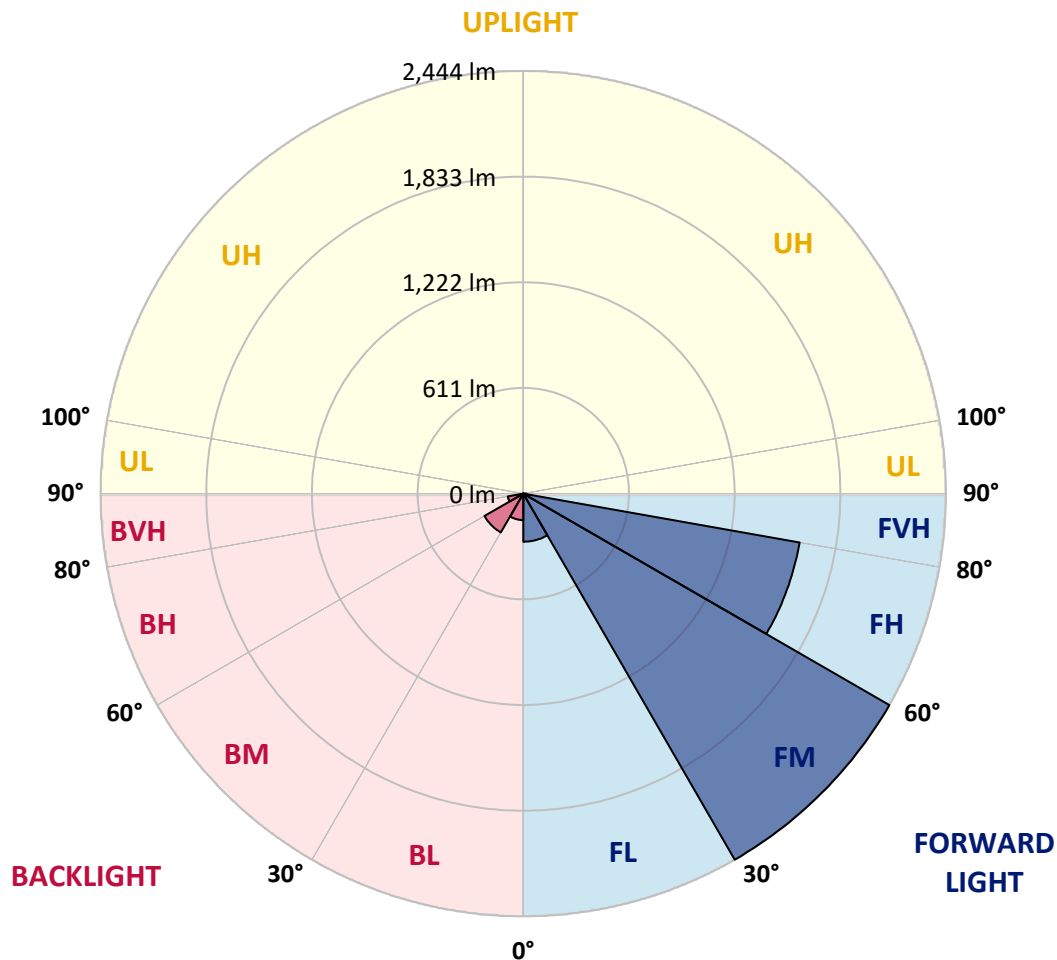
CATALOG NUMBER: GALN-SA1C-735-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	278.1	5.7			
FM (30°-60°)	2443.6	50.2			
FH (60°-80°)	1622.4	33.3			G1/1800
FVH (80°-90°)	17.1	0.4			G1/100
BL (0°-30°)	152.8	3.1	B1/500		
BM (30°-60°)	259.1	5.3	B1/1000		
BH (60°-80°)	91.2	1.9	B0/110		G0/110
BVH (80°-90°)	0.7	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-G1**

Type III Short





REPORT NUMBER: P458592

CATALOG NUMBER: GALN-SA1C-735-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7
2.5°	531.1	532.9	534.8	535.5	538.1	540.6	542.5	542.1	545.0	546.5	546.5
5°	509.9	509.9	514.6	519.0	526.3	533.7	540.6	542.1	547.6	552.7	554.5
7.5°	491.9	493.0	496.7	504.7	514.6	527.4	541.4	544.7	554.2	565.5	570.3
10°	483.5	484.2	489.0	497.4	509.9	527.4	546.9	553.1	567.7	585.7	592.3
12.5°	481.7	482.8	487.5	497.0	511.3	532.6	558.9	565.5	586.8	609.9	619.7
15°	485.0	485.7	490.4	500.7	516.5	541.7	575.1	584.2	609.5	636.2	649.0
17.5°	496.7	495.9	499.2	507.7	525.2	553.1	594.5	605.5	635.1	671.8	680.2
20°	546.5	541.7	538.8	531.5	538.4	569.2	617.9	634.0	670.7	708.0	713.9
22.5°	653.8	643.2	622.3	593.7	571.8	591.2	646.1	664.8	712.0	748.7	748.7
25°	790.4	776.9	756.0	693.7	639.9	627.4	678.0	701.4	757.1	794.1	782.0
27.5°	961.5	950.9	910.2	837.7	755.3	690.8	715.0	736.6	797.0	841.7	816.4
30°	1100.7	1095.5	1062.2	997.4	906.5	812.4	783.8	798.1	850.1	901.8	875.8
32.5°	1218.2	1218.2	1184.2	1123.7	1038.8	955.3	900.7	910.9	960.7	1020.5	972.1
35°	1347.5	1343.1	1315.7	1258.2	1162.9	1089.3	1067.0	1080.9	1125.9	1170.3	1051.2
37.5°	1483.4	1482.0	1453.4	1397.7	1320.1	1227.4	1175.0	1178.7	1201.8	1228.9	1143.9
40°	1631.0	1633.2	1595.9	1561.4	1488.2	1393.3	1293.0	1269.9	1291.5	1368.0	1314.9
42.5°	1805.4	1800.3	1784.1	1737.3	1678.3	1621.5	1501.0	1492.6	1511.6	1593.7	1536.2
45°	2007.9	2015.3	1987.4	1961.4	1921.9	1874.6	1773.9	1759.2	1780.1	1907.6	1825.9
47.5°	2210.9	2203.9	2221.8	2217.1	2238.3	2203.2	2114.2	2084.1	2134.3	2255.2	2135.0
50°	2365.4	2373.1	2410.5	2465.1	2556.3	2576.0	2490.7	2480.4	2502.8	2580.4	2411.6
52.5°	2465.8	2491.4	2550.0	2690.3	2854.8	2982.6	2917.8	2912.3	2903.1	2924.0	2676.0
55°	2531.3	2557.4	2633.9	2840.5	3123.6	3331.3	3334.6	3311.2	3250.7	3235.7	2923.3
57.5°	2491.1	2496.2	2605.3	2881.5	3272.7	3580.0	3687.7	3664.2	3552.5	3495.8	3141.6
60°	2239.1	2249.7	2401.7	2726.2	3207.9	3661.3	3921.7	3911.1	3788.8	3724.7	3311.5
62.5°	1792.6	1823.3	1979.7	2341.6	2906.4	3524.3	4016.6	4046.6	3951.4	3863.1	3365.0
63°	1710.5	1700.6	1865.8	2229.5	2826.6	3456.6	4018.1	4056.2	3958.7	3876.3	3350.3
65°	1266.2	1295.9	1403.2	1758.1	2352.2	3141.2	3927.6	3995.0	3931.6	3818.1	3188.1
67.5°	710.9	709.5	828.2	1150.5	1646.4	2464.0	3551.4	3693.9	3680.7	3426.2	2642.7
70°	348.0	353.5	402.2	596.3	954.9	1699.9	2951.1	3104.9	3109.7	2691.0	1827.4
72.5°	157.5	160.1	194.9	290.5	490.8	905.1	2033.6	2180.5	2153.3	1714.9	1009.1
75°	83.1	88.6	107.3	146.1	236.6	373.2	1106.2	1248.3	1191.5	783.5	371.4
77.5°	61.5	63.4	72.9	93.0	126.7	145.4	477.3	567.7	531.8	283.5	123.1
80°	45.1	46.5	54.2	65.9	79.8	74.0	179.8	206.2	185.0	96.3	37.7
82.5°	27.5	27.8	39.6	49.1	50.2	41.4	59.3	63.7	66.7	54.2	20.5
85°	9.9	12.5	26.7	35.5	29.7	20.9	24.9	27.5	30.0	34.4	12.1
87.5°	1.1	1.5	12.8	17.2	8.4	7.7	9.2	10.3	11.0	12.8	5.9
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: P458592  
 CATALOG NUMBER: GALN-SA1C-735-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7
2.5°	548.0	549.4	548.3	546.5	546.1	545.0	542.8	542.8	542.8	543.6	542.8
5°	556.0	557.1	554.5	550.9	546.9	541.7	536.2	532.9	532.6	531.8	530.0
7.5°	571.4	572.9	567.0	558.2	547.2	534.8	523.0	512.1	506.9	502.9	502.9
10°	593.7	595.2	583.5	567.7	545.8	520.5	492.6	467.4	447.6	438.4	436.2
12.5°	620.5	621.2	601.8	574.3	538.1	489.3	430.0	374.7	336.2	318.7	316.8
15°	649.8	644.6	619.0	576.9	516.1	425.2	322.7	254.9	215.0	203.3	207.7
17.5°	679.4	669.9	632.2	572.9	466.6	322.7	216.8	174.0	161.5	158.2	158.2
20°	707.3	694.1	641.7	555.3	380.9	222.3	160.8	150.5	148.3	146.1	146.5
22.5°	735.1	715.0	650.1	516.1	283.9	159.0	143.9	140.7	137.7	134.8	134.4
25°	762.2	734.4	653.4	443.6	193.4	136.6	131.5	127.1	121.2	117.9	117.2
27.5°	790.4	757.8	651.2	352.0	141.0	122.3	117.2	111.0	104.0	98.2	98.2
30°	844.6	802.5	643.6	253.1	118.7	107.7	101.1	91.2	83.5	77.7	77.3
32.5°	918.6	860.8	617.2	178.0	105.5	94.9	85.0	74.0	65.9	61.5	61.5
35°	984.6	919.4	567.7	131.1	94.9	82.4	70.3	59.7	53.5	50.5	49.4
37.5°	1084.9	1005.1	499.6	106.6	84.6	71.4	59.0	49.1	44.0	41.8	41.8
40°	1235.5	1109.8	416.1	93.4	74.7	60.8	49.1	41.4	37.4	34.8	34.8
42.5°	1422.3	1238.0	331.5	83.9	65.6	52.4	41.0	35.2	31.5	29.7	29.3
45°	1657.4	1373.2	255.3	75.1	58.2	44.7	34.8	29.7	26.0	24.9	25.3
47.5°	1902.8	1492.2	197.8	67.4	50.5	37.7	29.7	25.6	23.1	21.6	21.6
50°	2112.3	1574.3	150.2	58.6	44.7	31.9	26.0	23.1	20.9	20.1	19.8
52.5°	2287.4	1598.1	115.0	50.9	39.2	27.5	23.1	20.9	19.0	17.9	17.9
55°	2436.5	1577.2	90.1	42.9	33.0	23.8	20.5	18.7	16.5	15.4	15.0
57.5°	2523.7	1510.2	68.9	35.5	26.7	19.8	17.9	15.7	13.2	11.4	11.4
60°	2567.6	1412.7	52.7	29.3	20.5	15.7	14.7	11.7	9.2	7.7	7.3
62.5°	2514.9	1283.4	39.9	23.1	15.4	11.7	9.9	8.4	5.9	4.4	4.4
63°	2482.3	1246.1	38.5	22.0	14.3	11.0	9.2	7.7	5.1	4.0	3.7
65°	2262.9	1083.1	31.5	17.6	11.4	7.7	6.2	5.5	3.7	1.8	1.5
67.5°	1797.0	828.5	24.9	13.2	8.1	5.5	3.7	3.3	1.1	0.0	0.0
70°	1214.9	535.1	19.4	9.5	5.5	3.3	1.8	1.5	0.4	0.0	0.0
72.5°	633.7	274.3	15.0	7.0	3.3	2.2	1.1	0.4	0.0	0.0	0.0
75°	224.2	93.4	11.0	4.4	2.2	1.1	0.4	0.0	0.0	0.0	0.0
77.5°	67.8	34.8	7.0	3.3	1.5	0.7	0.0	0.0	0.0	0.0	0.0
80°	23.8	12.8	4.0	2.2	1.1	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	11.7	6.2	2.6	1.8	1.1	0.4	0.0	0.0	0.0	0.0	0.0
85°	6.6	4.0	2.2	1.8	1.1	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	2.9	2.2	1.8	1.5	0.7	0.4	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)