

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: P450199

Luminaire Tested: **GALN-SA1A-727-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450199  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-727-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3836 lumens  
Efficiency: N/A  
Efficacy: 116.2 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

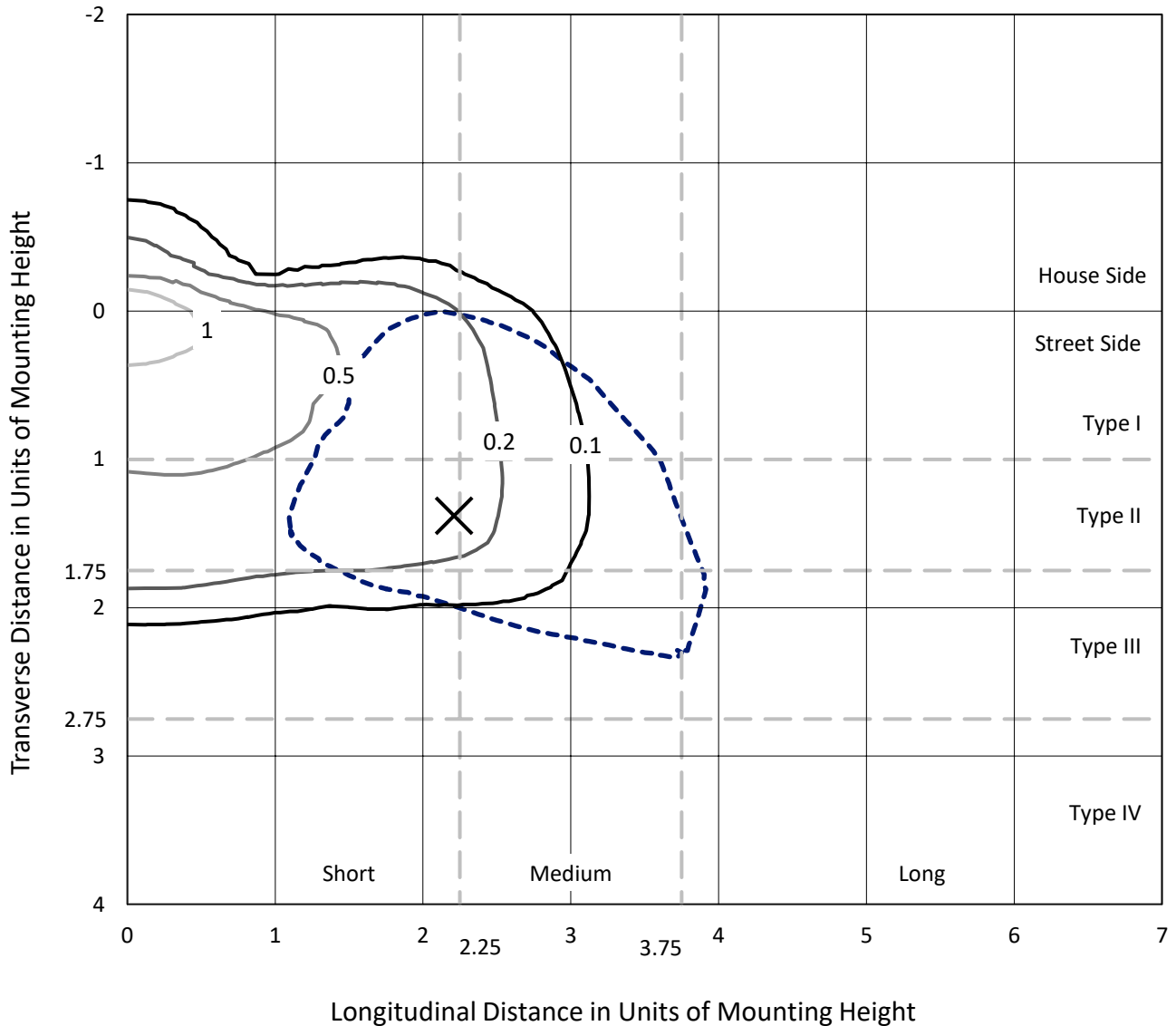
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P450199  
 CATALOG NUMBER: GALN-SA1A-727-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

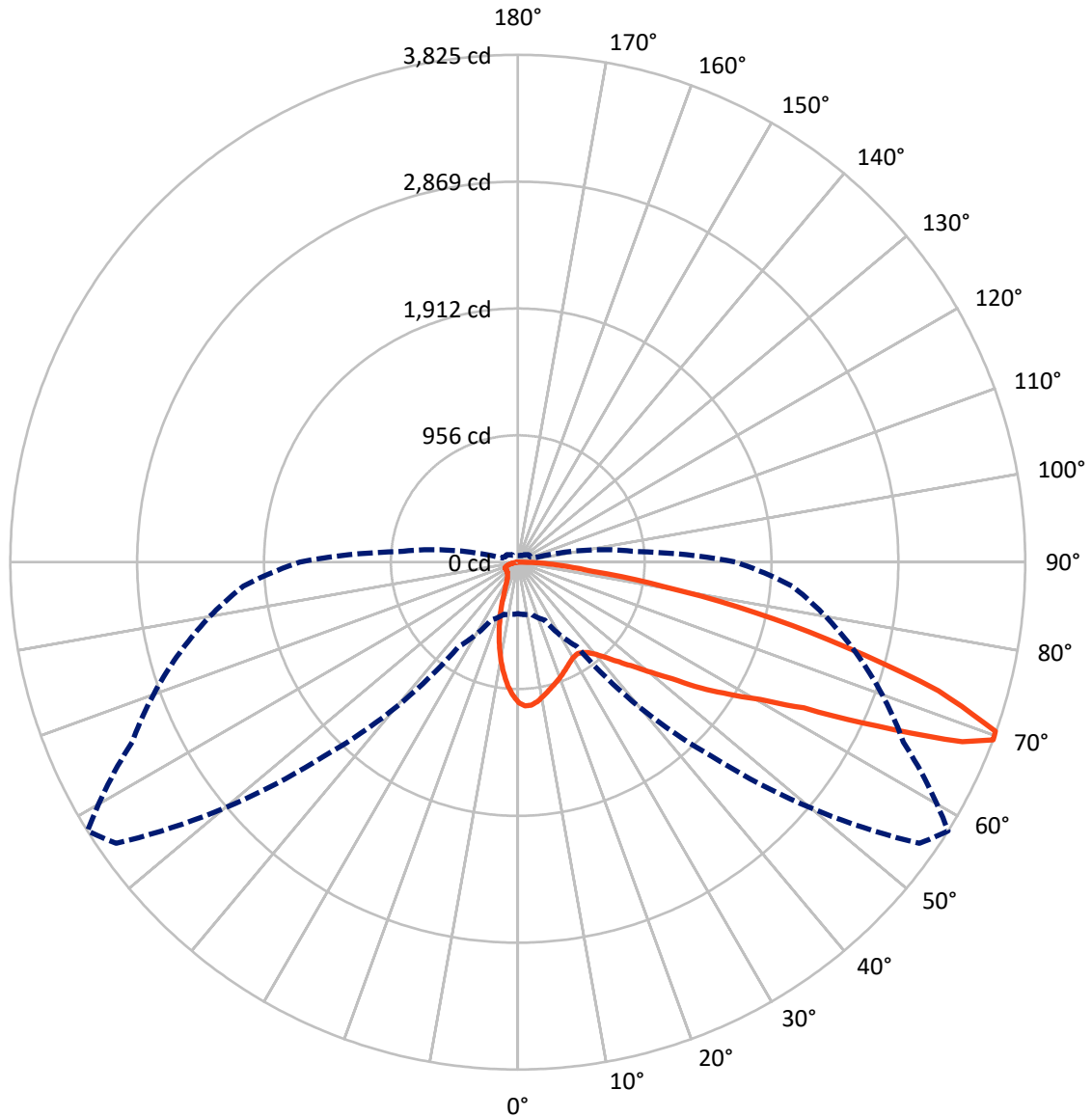
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P450199  
CATALOG NUMBER: GALN-SA1A-727-U-SL3

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P450199

CATALOG NUMBER: GALN-SA1A-727-U-SL3

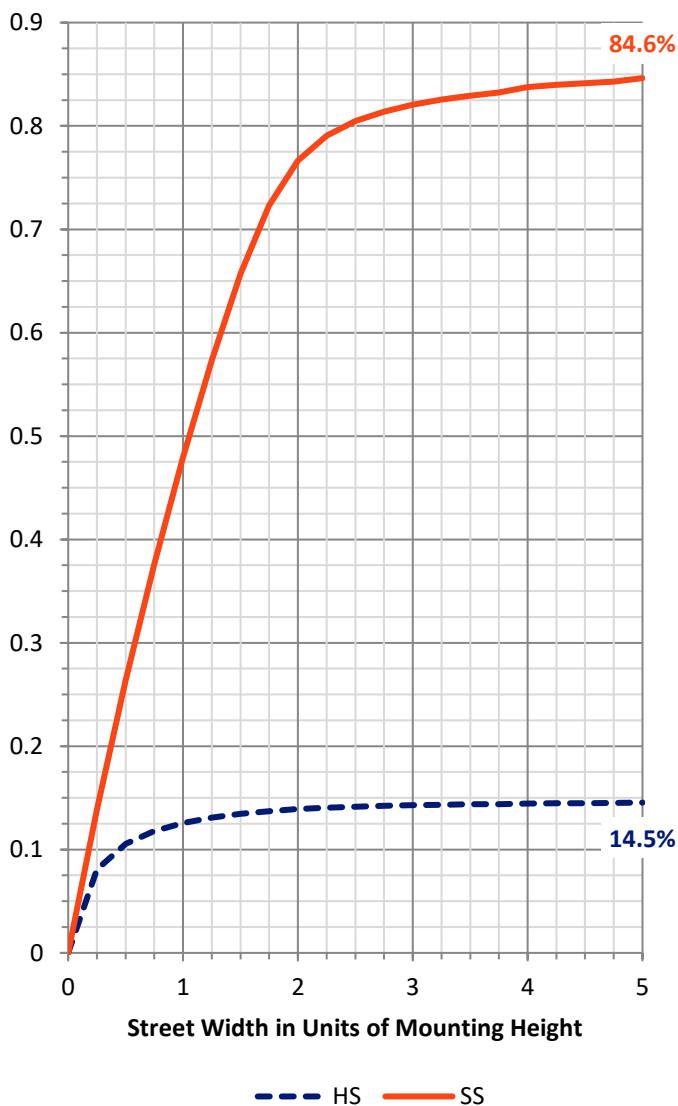
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	562.2	0.0	562.2
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	3273.8	0.0	3273.8
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	3836.0	0.0	3836.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.0	2.3
10°-20°	197.7	5.2
20°-30°	255.4	6.7
30°-40°	331.7	8.6
40°-50°	482.3	12.6
50°-60°	769.5	20.1
60°-70°	1028.0	26.8
70°-80°	592.6	15.4
80°-90°	88.8	2.3
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°	3836.0	100.0
0°-180°	3836.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P450199

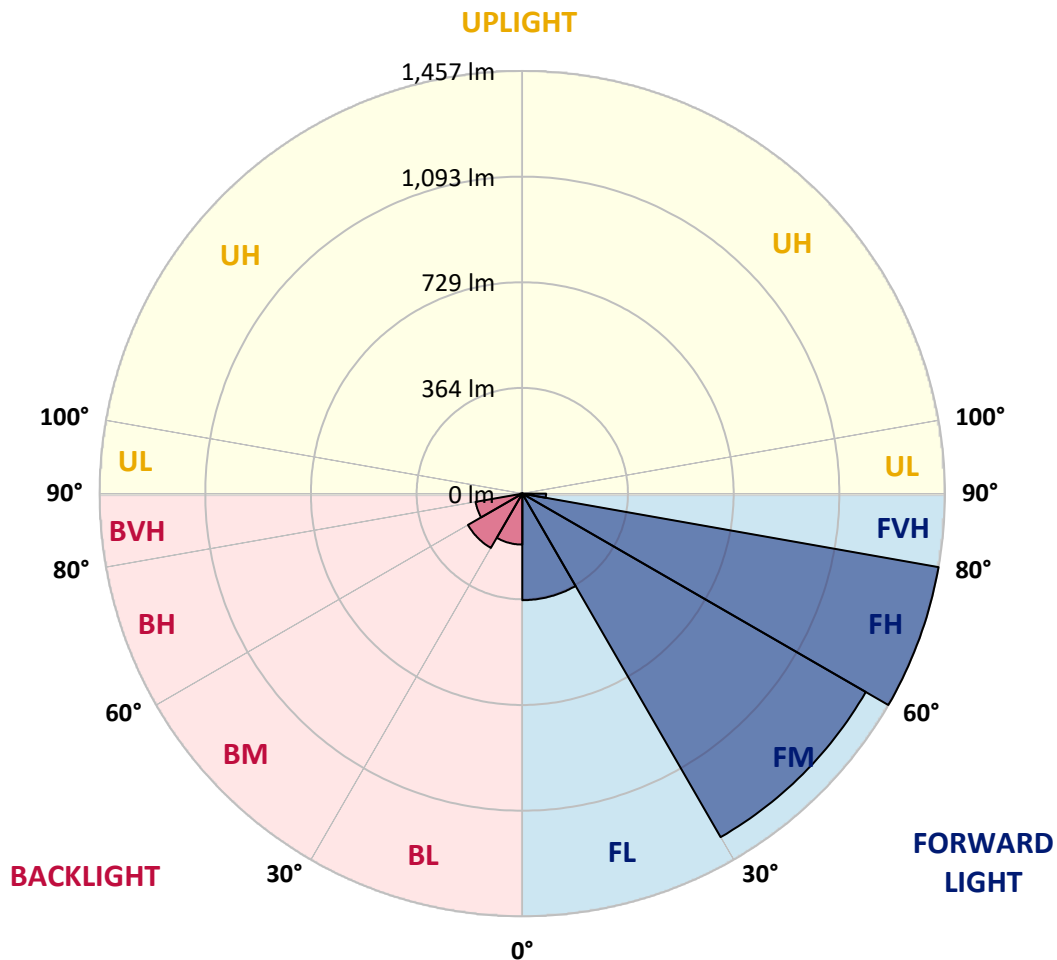
CATALOG NUMBER: GALN-SA1A-727-U-SL3

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	367.4	9.6			
FM	(30°-60°)	1367.3	35.6			
FH	(60°-80°)	1457.1	38.0			G1/1800
FVH	(80°-90°)	82.0	2.1			G1/100
BL	(0°-30°)	175.7	4.6	B1/500		
BM	(30°-60°)	216.2	5.6	B0/220		
BH	(60°-80°)	163.5	4.3	B1/500		G1/500
BVH	(80°-90°)	6.8	0.2			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: P450199

CATALOG NUMBER: GALN-SA1A-727-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0
2.5°	1099.4	1102.4	1101.5	1100.5	1098.8	1094.1	1086.4	1085.1	1080.2	1069.7	1056.6
5°	1082.5	1085.1	1085.3	1086.8	1088.9	1088.1	1082.5	1081.9	1074.6	1060.5	1038.7
7.5°	1024.5	1028.0	1035.4	1043.8	1051.3	1058.3	1060.0	1061.1	1056.6	1040.4	1011.3
10°	959.3	962.7	966.1	978.5	996.9	1014.5	1029.0	1031.0	1032.0	1017.0	981.5
12.5°	887.0	894.0	901.3	919.7	944.3	971.9	997.6	1001.6	1008.9	997.6	955.9
15°	825.6	832.8	843.3	859.8	889.5	929.3	965.5	972.1	986.5	980.7	931.9
17.5°	783.0	785.6	792.8	811.7	843.8	885.7	934.0	947.3	970.2	968.7	911.4
20°	749.4	752.6	757.1	768.7	802.0	846.3	904.7	921.8	952.9	958.0	891.0
22.5°	735.3	737.6	737.0	743.2	765.9	810.4	875.0	895.3	937.5	950.7	872.2
25°	736.1	738.3	735.1	733.6	747.1	778.7	844.0	869.9	925.1	945.8	855.1
27.5°	750.5	752.0	746.0	740.0	741.1	759.0	818.3	847.0	914.6	947.9	840.8
30°	769.7	772.5	768.7	761.4	753.5	754.3	801.8	830.1	909.6	955.4	833.9
32.5°	794.6	797.1	795.4	789.6	779.4	768.0	797.8	823.9	910.1	970.6	832.4
35°	820.7	825.8	828.6	828.1	819.8	800.1	813.8	835.4	920.3	996.1	841.2
37.5°	850.2	854.5	866.4	874.1	866.4	843.5	850.0	864.9	943.0	1032.9	860.4
40°	878.8	885.3	902.8	926.8	923.8	903.7	905.2	915.0	983.0	1087.6	898.1
42.5°	908.8	916.5	947.1	982.6	989.7	974.0	978.1	986.9	1039.9	1163.6	962.7
45°	947.3	956.5	994.2	1038.4	1066.2	1056.6	1068.2	1072.5	1116.1	1262.4	1047.9
47.5°	996.9	1007.6	1054.1	1109.3	1148.6	1157.4	1177.5	1174.9	1210.4	1379.5	1158.2
50°	1080.6	1086.6	1130.4	1186.7	1240.8	1280.4	1302.2	1306.3	1327.5	1493.3	1281.7
52.5°	1180.1	1185.4	1217.1	1266.3	1334.1	1418.0	1471.9	1458.6	1463.7	1631.9	1426.1
55°	1292.0	1300.9	1321.0	1353.8	1441.7	1565.1	1673.4	1676.6	1619.7	1764.5	1564.5
57.5°	1378.6	1393.8	1428.2	1474.9	1586.3	1728.8	1874.3	1876.4	1803.7	1906.2	1717.3
60°	1335.0	1352.9	1431.7	1545.2	1776.1	2014.4	2114.3	2102.1	1982.7	2067.5	1903.6
62.5°	1146.7	1149.9	1264.4	1441.9	1834.5	2396.5	2471.6	2420.0	2221.7	2272.0	2092.9
65°	742.1	763.1	853.8	1102.6	1642.6	2608.5	3097.6	2978.4	2556.7	2504.1	2251.4
67.5°	468.5	463.2	500.8	629.6	1129.8	2421.7	3631.8	3612.9	2994.9	2650.6	2213.6
69°	388.5	394.5	407.3	482.6	777.4	2067.7	3694.9	3824.9	3207.3	2639.1	2076.0
70°	352.4	355.1	368.6	427.9	599.9	1731.8	3591.3	3819.2	3290.7	2590.7	1976.3
72.5°	279.6	279.4	302.5	356.0	448.4	988.6	2948.9	3315.8	3197.5	2365.7	1633.0
75°	212.4	215.9	241.3	301.2	413.1	540.2	2057.8	2553.5	2553.7	1868.5	1019.0
77.5°	153.2	155.3	185.1	252.9	389.1	437.9	1370.7	1831.5	1721.7	856.2	320.3
80°	100.3	101.6	124.3	200.2	350.9	413.1	812.7	1121.0	812.1	227.2	105.9
82.5°	55.0	61.4	75.9	129.6	281.5	381.7	494.0	567.4	304.6	101.2	55.2
85°	27.6	29.3	42.8	75.7	184.0	315.8	344.0	325.4	157.2	50.3	28.7
87.5°	8.1	10.3	17.8	29.3	74.7	164.5	191.5	171.8	60.5	18.2	6.0
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: P450199  
 CATALOG NUMBER: GALN-SA1A-727-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0
2.5°	1051.3	1047.4	1030.3	1014.9	1000.8	985.8	973.2	962.1	963.1	963.3	952.0
5°	1027.3	1018.5	986.0	955.6	930.0	897.5	869.6	851.7	842.7	830.7	835.0
7.5°	994.8	977.9	932.8	882.3	835.0	792.8	747.1	715.6	695.5	676.0	678.6
10°	961.2	934.0	868.4	801.6	740.4	673.0	614.6	564.6	527.3	513.4	504.2
12.5°	926.8	891.0	807.6	718.8	634.3	553.7	470.9	417.2	376.1	354.3	357.1
15°	895.3	851.9	744.3	636.0	526.3	430.2	347.6	296.5	267.8	261.9	265.3
17.5°	866.2	809.3	685.0	555.6	427.4	322.6	261.2	232.3	220.8	217.6	217.4
20°	836.3	773.2	618.5	469.6	333.1	250.1	214.4	200.9	198.7	200.0	200.2
22.5°	805.9	728.4	550.0	384.2	265.3	204.5	187.4	183.8	185.5	188.5	188.9
25°	777.9	689.1	484.1	309.3	211.8	179.7	171.4	171.4	175.2	179.7	179.9
27.5°	754.8	651.0	418.5	245.6	177.4	161.7	159.0	160.5	165.8	169.2	169.4
30°	735.7	615.5	356.4	196.8	156.0	147.4	146.8	149.3	153.2	156.4	156.6
32.5°	721.4	584.3	298.4	165.4	141.2	136.5	136.3	138.2	140.3	141.2	142.1
35°	715.8	558.4	245.4	145.5	131.4	128.4	128.4	128.1	129.0	129.4	129.9
37.5°	720.3	538.5	204.3	132.6	124.1	121.9	120.7	119.4	118.9	118.9	119.2
40°	739.4	528.0	173.7	124.3	118.9	115.7	113.4	111.9	110.4	110.8	111.2
42.5°	779.8	529.9	153.0	118.7	114.5	110.0	106.5	104.8	103.8	105.0	104.8
45°	844.2	549.2	139.7	114.9	110.0	104.2	101.0	99.3	99.3	101.2	101.8
47.5°	934.3	586.0	132.6	111.9	106.5	99.7	96.5	95.2	95.6	98.8	99.1
50°	1044.2	649.9	131.4	110.4	104.8	96.5	92.8	91.6	92.6	96.1	96.5
52.5°	1165.5	732.3	137.6	110.6	103.3	94.6	89.9	87.9	89.0	91.8	92.6
55°	1309.3	835.4	153.6	111.5	101.2	93.5	87.7	83.4	84.7	86.6	86.9
57.5°	1456.0	965.5	181.8	111.7	99.5	91.6	84.1	78.5	78.5	79.8	80.4
60°	1635.3	1107.1	219.1	111.9	99.7	88.8	79.2	73.0	72.1	72.7	73.0
62.5°	1813.3	1225.6	225.3	111.2	101.8	86.0	73.8	67.4	65.9	65.7	65.3
65°	1891.8	1203.6	184.6	108.3	104.2	84.3	69.5	62.0	59.5	58.6	58.6
67.5°	1763.9	1018.1	138.8	104.2	102.7	82.6	65.5	57.5	54.6	52.8	52.8
69°	1643.7	905.6	124.7	101.4	98.8	79.8	62.9	55.2	51.6	49.6	49.0
70°	1550.8	828.1	118.7	99.1	95.2	76.6	61.0	53.5	49.4	47.3	46.9
72.5°	1237.6	649.7	104.0	90.1	81.1	64.4	54.1	48.1	44.3	41.9	41.3
75°	713.3	352.1	86.2	78.3	65.3	50.1	45.8	41.9	38.9	36.8	36.2
77.5°	219.5	136.1	62.5	61.8	47.9	38.7	36.6	35.1	32.9	30.6	30.2
80°	92.4	69.3	42.4	41.7	31.9	27.0	26.3	26.1	25.2	23.3	22.7
82.5°	50.7	39.2	29.5	25.7	19.3	15.6	16.3	16.5	15.8	13.9	12.6
85°	24.8	21.4	14.3	11.6	8.8	5.6	5.3	6.4	6.0	4.3	4.7
87.5°	4.9	6.0	3.9	1.7	0.9	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)