

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: P450193

Luminaire Tested: **GALN-SA1A-727-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
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-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3171 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0

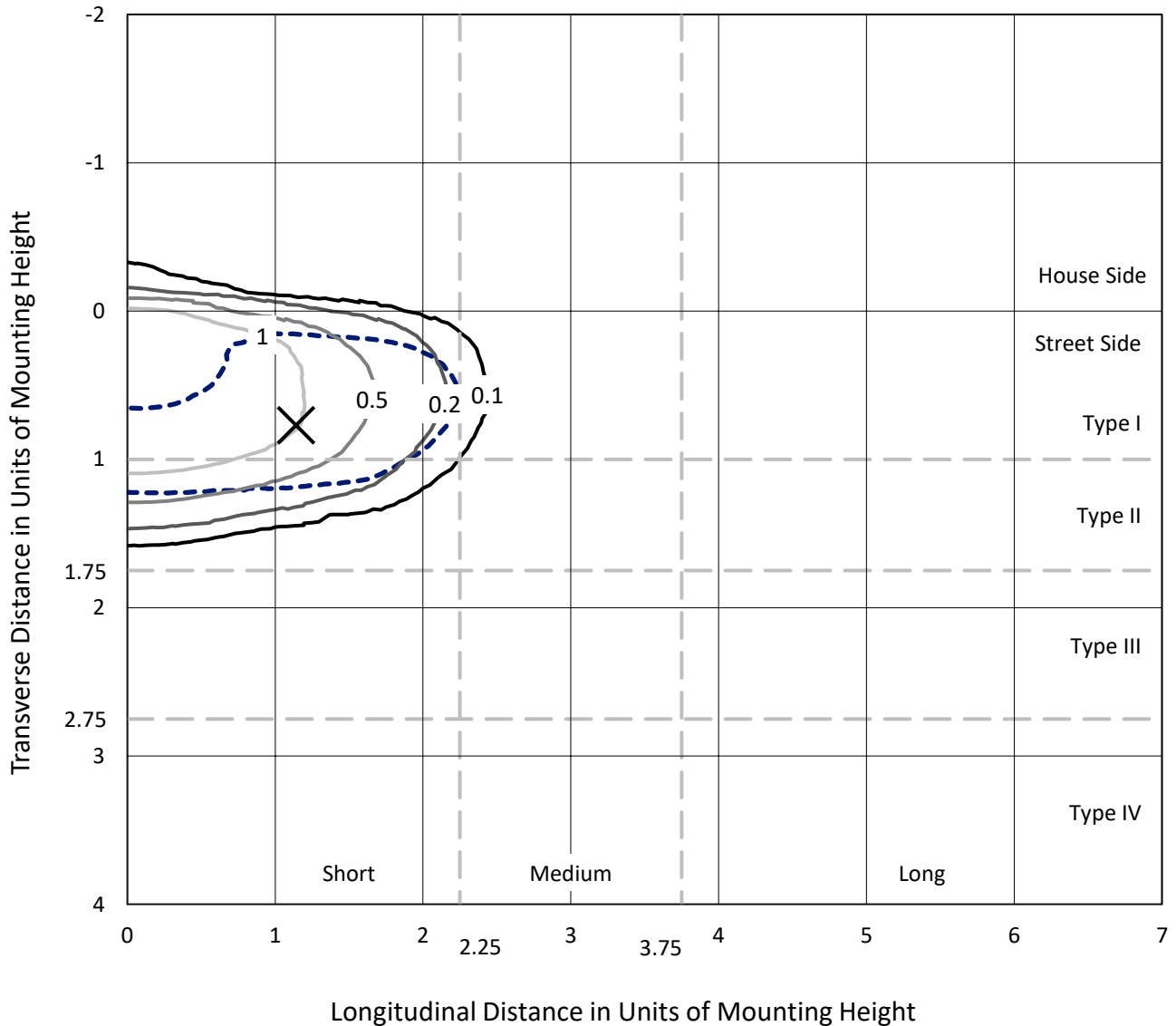
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

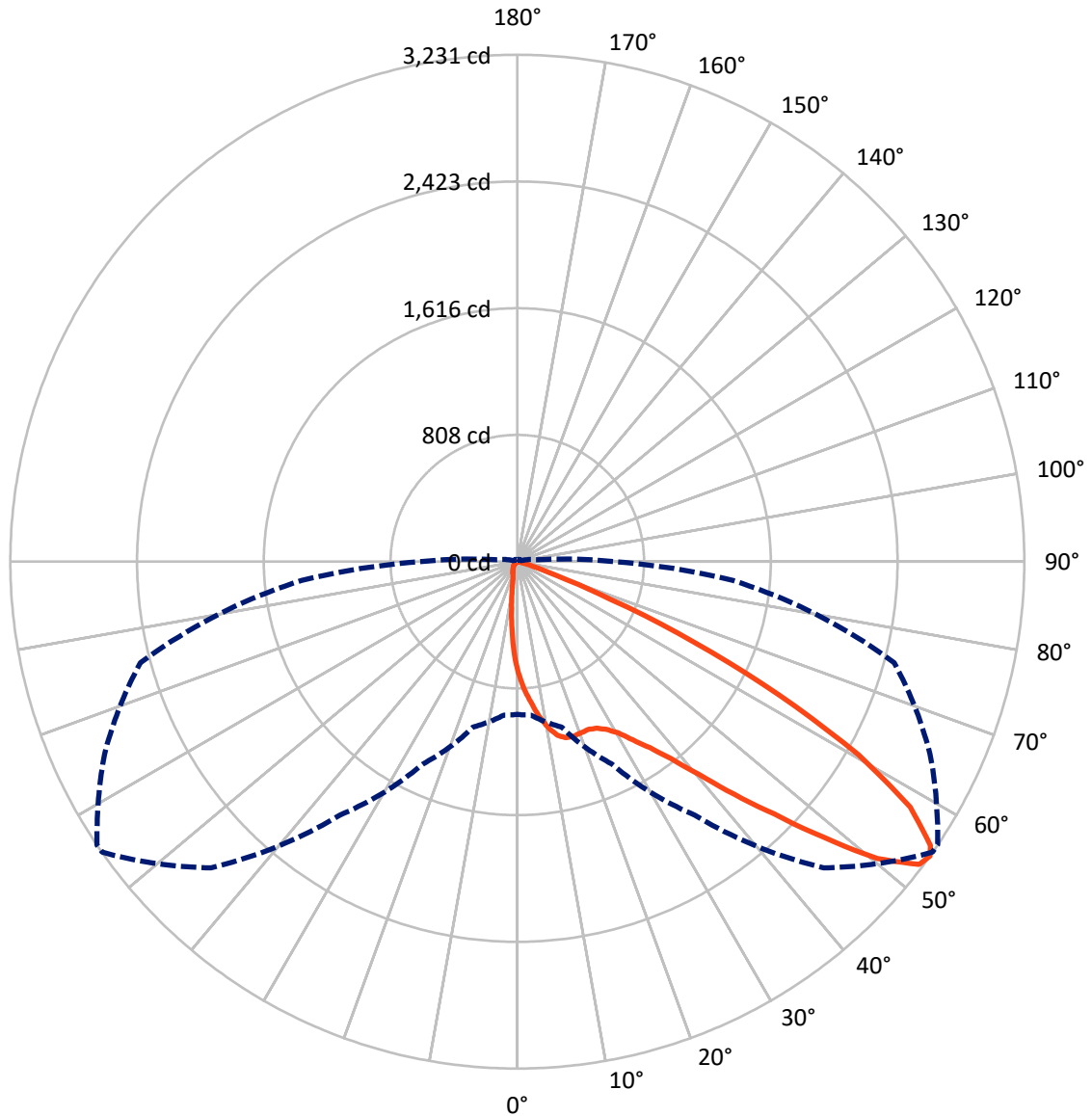
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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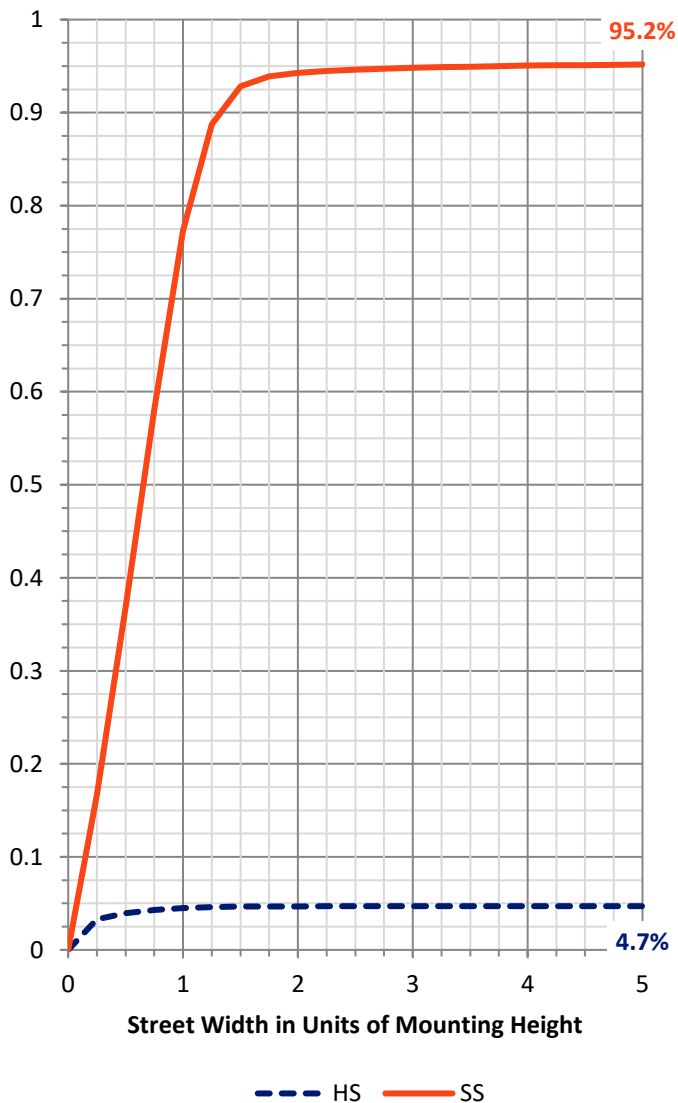
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	149.9	0.0	149.9
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	3021.1	0.0	3021.1
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	3171.0	0.0	3171.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.3	2.0
10°-20°	168.3	5.3
20°-30°	291.5	9.2
30°-40°	503.1	15.9
40°-50°	856.3	27.0
50°-60°	847.5	26.7
60°-70°	386.8	12.2
70°-80°	49.7	1.6
80°-90°	5.6	0.2
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°	3171.0	100.0
0°-180°	3171.0	100.0



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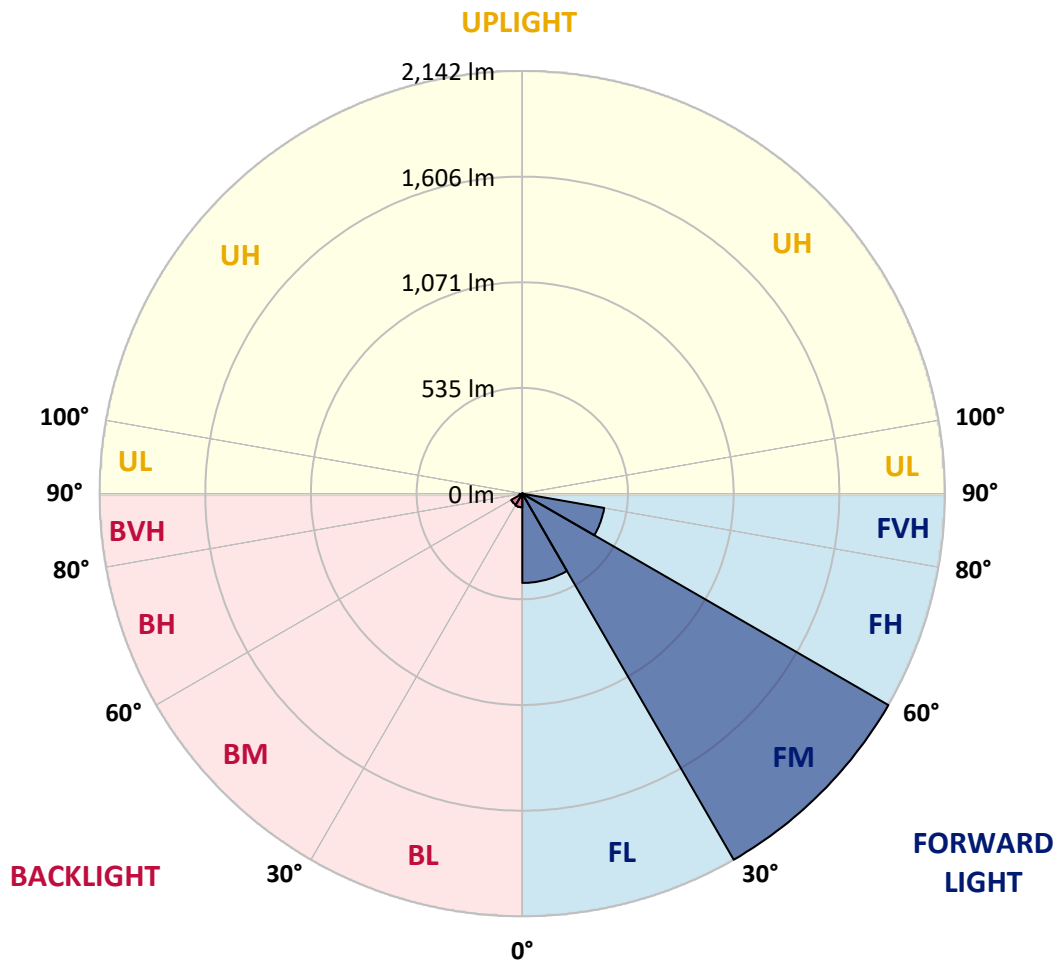
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	452.7	14.3			
FM	(30°-60°)	2141.9	67.5			
FH	(60°-80°)	421.5	13.3			G0/660
FVH	(80°-90°)	5.0	0.2			G0/10
BL	(0°-30°)	69.3	2.2	B0/110		
BM	(30°-60°)	65.0	2.0	B0/220		
BH	(60°-80°)	15.0	0.5	B0/110		G0/110
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	704.5	704.5	704.5	704.5	704.5	704.5	704.5	704.5	704.5	704.5	704.5
2.5°	895.3	889.1	880.6	873.9	858.3	835.9	812.1	812.1	789.2	757.3	724.8
5°	1032.7	1028.6	1020.3	1003.2	985.6	954.2	906.5	898.1	857.3	799.5	738.7
7.5°	1088.5	1090.5	1090.9	1086.4	1078.0	1047.0	999.7	994.0	928.7	851.3	756.9
10°	1035.0	1044.5	1053.7	1072.3	1098.6	1106.1	1079.3	1073.3	1009.2	903.7	776.6
12.5°	955.5	960.6	965.7	995.0	1047.9	1108.4	1136.5	1136.2	1081.9	955.9	801.6
15°	918.4	922.9	923.4	936.4	982.2	1070.3	1160.8	1164.0	1152.9	1020.3	828.6
17.5°	926.1	929.8	926.8	930.0	954.0	1028.4	1158.1	1168.8	1210.5	1082.1	853.0
20°	976.4	983.5	971.9	962.9	970.2	1017.3	1148.6	1163.6	1251.1	1142.4	875.2
22.5°	1066.7	1070.6	1056.0	1031.4	1018.6	1040.6	1146.1	1160.8	1285.8	1191.9	888.1
25°	1167.0	1165.8	1149.7	1122.1	1095.2	1087.7	1163.0	1176.2	1314.4	1236.4	891.9
27.5°	1267.4	1271.2	1244.3	1210.0	1177.7	1158.3	1200.8	1210.7	1346.8	1287.1	896.6
30°	1384.0	1377.8	1351.2	1312.1	1275.1	1247.9	1261.8	1264.6	1391.3	1354.2	909.0
32.5°	1535.7	1518.5	1488.8	1420.3	1393.8	1347.8	1351.2	1354.7	1445.4	1420.8	924.0
35°	1741.5	1740.6	1682.4	1590.2	1525.6	1468.5	1453.5	1456.3	1527.3	1519.6	957.2
37.5°	1989.2	1992.6	1926.3	1833.5	1714.5	1623.8	1593.0	1593.4	1651.8	1656.1	1007.7
40°	2191.0	2199.9	2160.4	2097.7	1980.2	1838.4	1786.6	1781.9	1826.8	1821.5	1079.8
42.5°	2277.8	2286.2	2300.9	2322.7	2258.1	2141.1	2019.0	2025.4	2039.1	2001.6	1160.6
45°	2235.2	2248.5	2306.5	2441.3	2502.0	2462.7	2317.0	2294.5	2236.5	2197.4	1241.9
47.5°	2057.9	2090.2	2187.1	2411.5	2624.2	2757.3	2653.3	2623.5	2434.2	2340.3	1293.7
50°	1766.3	1768.2	1903.2	2190.1	2560.9	2943.2	2996.7	2974.4	2618.4	2420.5	1319.8
52.5°	1280.4	1322.6	1446.2	1778.5	2286.6	2914.9	3215.5	3206.3	2808.4	2461.6	1357.5
54°	973.4	981.6	1091.5	1421.2	1971.5	2759.8	3229.0	3231.1	2902.7	2486.4	1379.7
55°	798.0	778.5	894.1	1210.7	1756.4	2622.7	3184.9	3195.2	2945.1	2499.2	1396.2
57.5°	378.2	378.5	466.8	638.6	1100.1	2036.5	2915.6	2951.9	2949.8	2521.3	1446.9
60°	191.5	192.8	212.2	294.8	543.4	1353.8	2410.7	2497.3	2722.8	2524.5	1463.6
62.5°	133.9	132.4	129.2	141.8	228.7	688.0	1794.7	1870.1	2313.3	2402.3	1410.5
65°	114.7	111.5	102.5	100.6	115.5	274.1	1117.8	1240.6	1766.3	2080.1	1259.5
67.5°	98.0	96.7	88.6	83.7	81.7	119.4	576.8	641.4	1207.3	1495.2	954.0
70°	83.2	82.6	77.7	71.5	66.1	71.5	213.9	265.1	672.8	805.1	450.1
72.5°	67.6	68.2	69.1	61.2	55.6	50.7	91.4	106.3	281.5	287.7	157.5
75°	59.3	58.6	58.6	53.3	46.4	37.7	50.3	54.1	86.2	80.0	36.6
77.5°	41.7	40.2	47.1	43.9	38.7	26.7	28.7	30.4	35.7	30.6	17.1
80°	28.9	28.9	30.2	39.4	34.9	19.5	17.5	18.8	21.2	18.2	9.8
82.5°	16.3	16.7	19.7	21.0	20.3	13.1	11.6	11.8	14.1	12.4	6.2
85°	1.9	3.2	11.3	11.1	8.3	5.8	6.4	6.6	8.8	7.7	3.6
87.5°	0.2	0.4	2.4	3.0	2.1	2.4	2.4	2.4	3.0	3.4	2.6
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°	704.5	704.5	704.5	704.5	704.5	704.5	704.5	704.5	704.5	704.5	704.5
2.5°	707.3	691.0	652.3	607.4	578.7	532.1	492.7	464.3	457.2	443.5	447.6
5°	706.4	672.6	593.7	510.2	421.2	354.9	305.5	266.6	249.5	238.1	230.2
7.5°	706.9	654.0	527.4	394.5	288.2	223.1	177.4	153.6	137.8	131.1	132.0
10°	708.1	633.0	450.3	292.2	194.5	144.2	116.2	104.8	99.5	98.6	98.4
12.5°	711.1	610.2	376.7	216.9	136.1	104.8	94.1	90.3	88.6	88.6	87.9
15°	714.3	584.9	315.6	161.3	104.8	90.1	85.1	83.2	82.2	82.2	81.9
17.5°	714.3	555.8	258.4	125.2	90.3	82.8	78.9	76.4	75.5	75.5	75.3
20°	709.9	522.0	207.7	100.8	81.9	75.9	72.1	69.3	68.2	67.8	67.6
22.5°	694.2	476.9	165.4	86.6	75.1	70.0	65.0	61.8	61.0	60.5	60.8
25°	666.4	426.0	130.9	76.2	68.9	62.7	58.4	56.1	55.2	55.2	55.4
27.5°	637.8	372.7	103.8	68.2	61.4	55.8	52.4	50.9	50.7	51.3	51.6
30°	611.2	319.2	84.1	61.8	54.8	50.1	47.7	47.3	47.3	47.5	47.7
32.5°	581.7	272.3	70.4	56.3	49.4	45.4	44.1	44.1	44.5	44.5	44.9
35°	563.1	232.1	61.8	50.9	45.4	41.9	41.1	41.3	41.9	42.8	43.2
37.5°	553.0	200.0	56.3	46.6	41.5	39.2	38.3	38.7	40.2	41.7	41.9
40°	553.9	175.9	51.8	43.0	38.5	35.9	35.3	36.6	38.1	39.6	39.8
42.5°	563.3	157.9	47.5	38.7	35.9	32.3	32.1	33.4	34.0	35.5	35.7
45°	574.4	144.8	43.0	34.2	31.2	28.0	28.2	29.3	30.2	32.5	32.9
47.5°	577.9	135.9	37.9	29.1	25.7	24.6	24.8	25.5	27.2	29.3	29.5
50°	581.7	130.3	32.9	24.6	21.8	21.6	21.8	22.2	23.3	24.2	24.0
52.5°	598.2	130.1	28.9	21.4	18.6	19.0	19.3	19.0	18.2	16.9	16.5
54°	613.6	130.7	27.0	19.9	17.1	17.8	17.5	16.5	14.3	13.1	12.4
55°	626.0	131.4	25.9	18.8	16.3	16.5	16.7	14.5	11.8	10.5	10.1
57.5°	650.4	129.9	23.3	16.5	14.3	13.5	13.3	9.6	6.4	5.6	5.1
60°	638.2	117.2	21.2	14.1	12.2	10.9	9.0	5.3	3.2	2.4	2.4
62.5°	590.3	99.5	18.8	11.6	10.1	8.3	4.7	3.0	1.5	0.9	0.6
65°	528.0	83.7	16.9	9.2	7.9	5.3	2.6	1.9	0.6	0.0	0.0
67.5°	392.6	62.0	14.3	7.3	6.0	3.4	1.7	1.1	0.2	0.0	0.0
70°	181.8	37.9	12.2	5.6	4.3	2.6	1.3	0.6	0.0	0.0	0.0
72.5°	52.2	23.7	10.1	4.1	3.0	2.1	1.1	0.4	0.2	0.0	0.0
75°	18.2	19.0	7.5	3.0	2.4	1.5	0.9	0.4	0.2	0.0	0.0
77.5°	10.9	15.4	4.7	2.6	1.9	1.3	0.9	0.4	0.2	0.2	0.0
80°	6.2	10.3	3.0	2.1	1.7	1.1	0.6	0.4	0.2	0.2	0.0
82.5°	3.4	4.9	2.4	1.9	1.5	1.1	0.6	0.4	0.2	0.2	0.2
85°	2.8	2.6	1.9	1.7	1.3	0.9	0.6	0.2	0.0	0.0	0.0
87.5°	2.1	1.7	1.7	1.7	1.3	0.9	0.6	0.2	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)