

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: P450208

Luminaire Tested: **GALN-SA1A-727-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450208  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
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-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3892 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

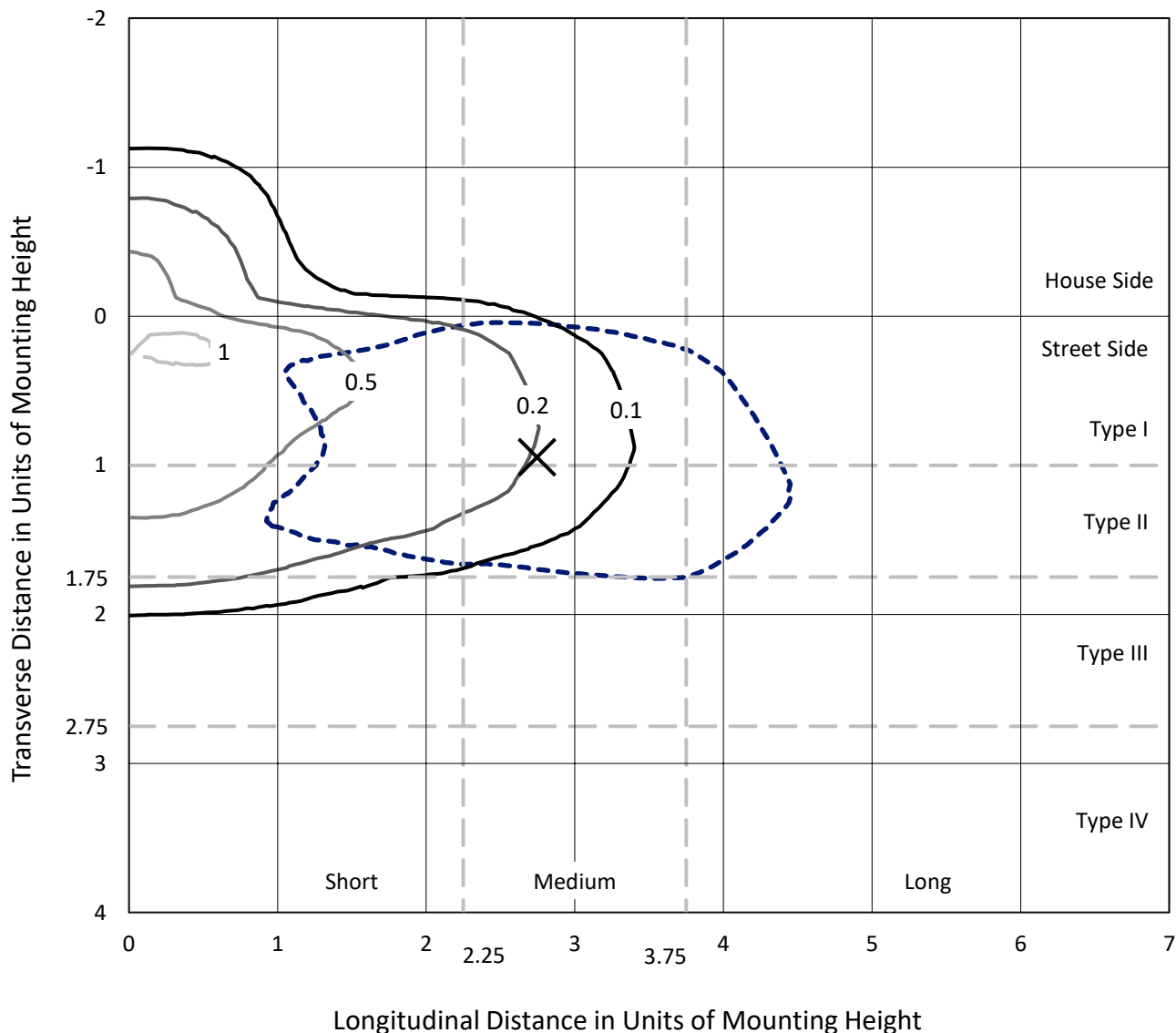
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

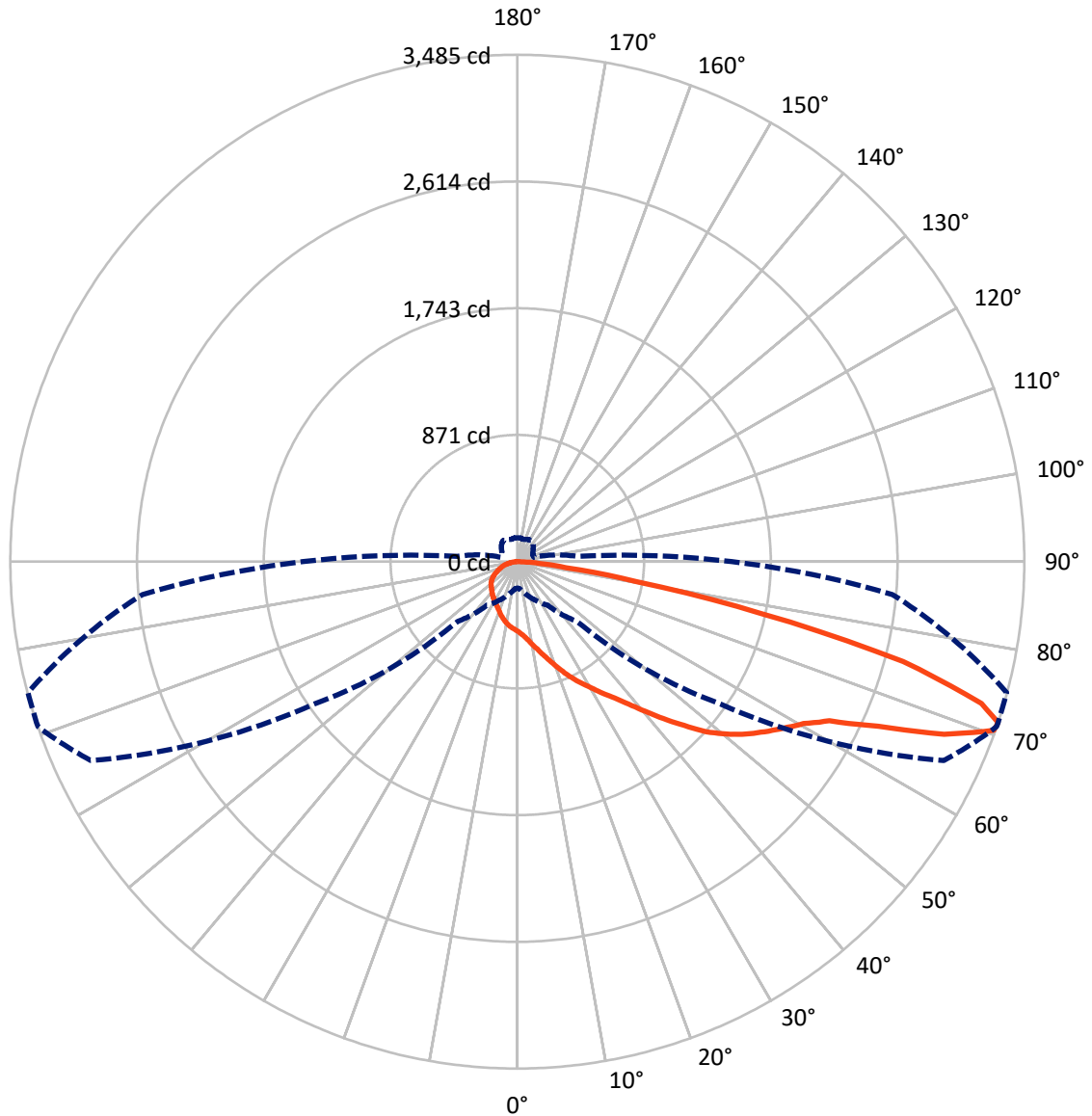
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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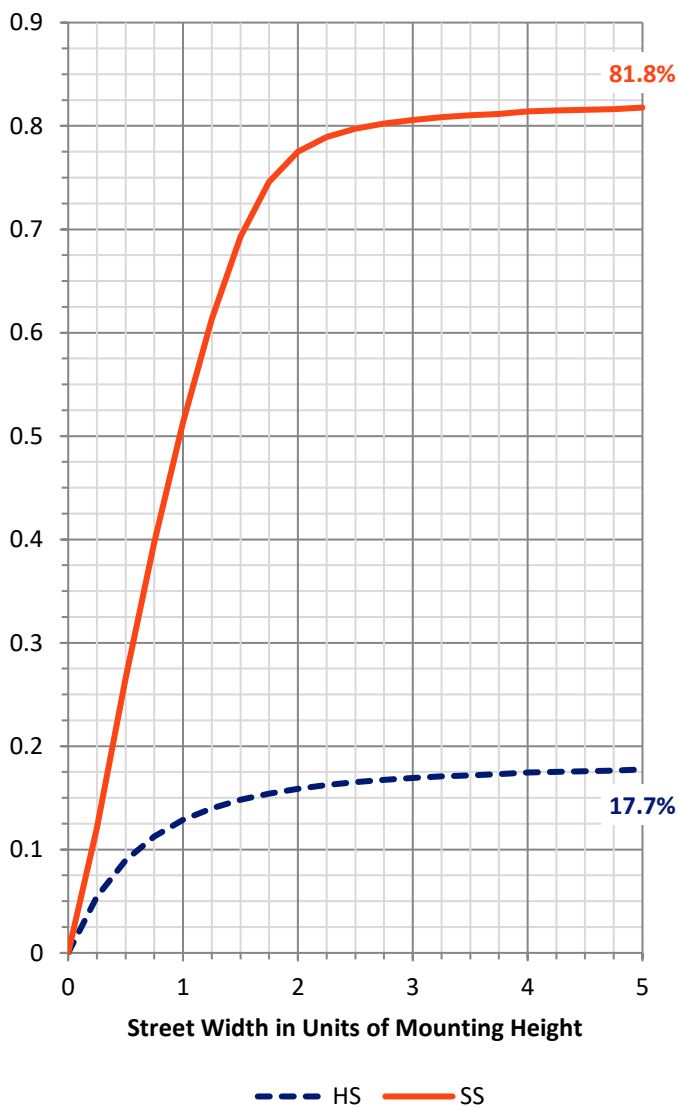
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	700.0	0.0	700.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	3192.0	0.0	3192.0
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	3892.0	0.0	3892.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.0	1.2
10°-20°	155.8	4.0
20°-30°	272.3	7.0
30°-40°	405.0	10.4
40°-50°	596.8	15.3
50°-60°	835.5	21.5
60°-70°	934.4	24.0
70°-80°	570.8	14.7
80°-90°	73.4	1.9
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°	3892.0	100.0
0°-180°	3892.0	100.0

**Coefficient of Utilization**



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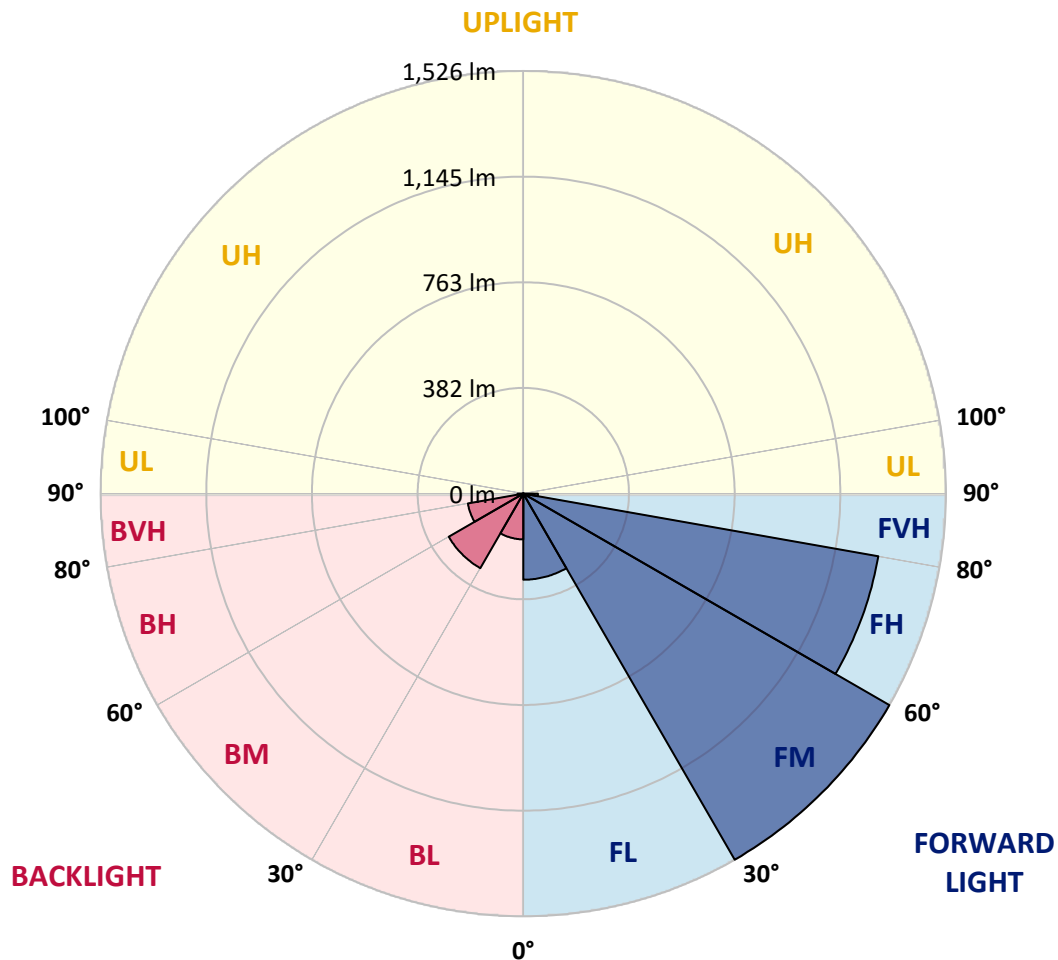
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.0	8.0			
FM (30°-60°)	1526.4	39.2			
FH (60°-80°)	1301.9	33.4			G1/1800
FVH (80°-90°)	52.8	1.4			G1/100
BL (0°-30°)	165.1	4.2	B1/500		
BM (30°-60°)	310.9	8.0	B1/1000		
BH (60°-80°)	203.4	5.2	B1/500		G1/500
BVH (80°-90°)	20.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7
2.5°	530.3	527.7	527.9	524.3	519.6	514.5	507.2	500.8	495.6	492.6	483.9
5°	587.6	585.1	581.8	573.9	570.5	557.9	541.8	527.3	516.2	510.0	492.4
7.5°	634.0	633.4	632.5	628.0	619.3	601.7	588.0	562.8	546.3	534.6	504.6
10°	662.7	663.8	664.4	665.3	661.6	652.4	633.6	601.7	580.8	565.8	520.4
12.5°	677.2	678.3	682.0	689.9	694.8	693.7	678.3	647.1	618.2	598.5	537.3
15°	686.2	687.9	694.4	704.8	721.3	731.8	724.3	695.4	663.8	640.5	557.5
17.5°	696.1	698.0	705.1	720.0	741.6	764.3	772.4	747.6	713.2	685.4	579.9
20°	701.6	704.2	714.3	733.9	759.2	792.1	819.1	806.0	768.4	737.6	605.8
22.5°	710.6	712.8	721.3	742.3	772.4	813.7	865.7	862.9	829.8	790.0	634.3
25°	735.0	738.4	742.7	755.3	784.4	835.8	904.4	923.7	889.2	844.7	660.3
27.5°	781.0	783.8	783.6	785.3	801.7	854.8	938.0	983.8	948.3	900.1	685.6
30°	833.4	834.5	835.3	831.5	835.1	874.3	968.8	1043.3	1007.7	957.0	707.6
32.5°	897.1	899.3	892.0	882.2	879.2	903.1	994.3	1102.7	1078.1	1014.8	729.4
35°	972.4	978.0	963.2	945.9	933.7	944.6	1028.5	1163.5	1150.2	1088.6	758.3
37.5°	1058.4	1065.3	1051.6	1017.6	1000.3	1003.2	1073.2	1238.6	1241.3	1172.7	801.3
40°	1128.8	1137.8	1138.2	1090.1	1063.8	1067.2	1129.9	1319.4	1351.3	1276.6	852.0
42.5°	1175.2	1184.0	1193.2	1165.0	1137.4	1156.8	1196.0	1407.1	1474.9	1402.8	922.8
45°	1226.1	1234.1	1239.2	1226.4	1211.0	1261.4	1275.8	1500.4	1606.7	1543.8	1000.3
47.5°	1285.2	1294.0	1298.9	1286.7	1280.9	1353.2	1361.8	1587.4	1747.4	1680.7	1085.8
50°	1363.9	1370.5	1368.0	1360.3	1359.0	1423.6	1444.3	1668.9	1863.6	1828.1	1174.6
52.5°	1461.9	1469.8	1472.6	1461.7	1456.7	1473.9	1510.9	1743.2	1969.3	1954.7	1269.4
55°	1521.1	1533.8	1576.1	1593.2	1605.0	1538.9	1582.5	1825.1	2064.0	2088.2	1371.2
57.5°	1445.2	1461.4	1556.2	1641.8	1752.4	1701.5	1684.1	1910.7	2158.8	2217.6	1493.1
60°	1259.9	1263.6	1385.7	1543.4	1765.8	1910.5	1896.1	2046.7	2261.5	2348.1	1653.8
62.5°	874.0	881.7	1026.1	1277.7	1599.4	1985.7	2256.8	2281.6	2408.7	2543.4	1889.3
65°	450.7	440.7	572.2	803.0	1205.8	1806.9	2549.0	2713.5	2727.8	2848.9	2220.8
67.5°	277.4	281.9	343.5	468.9	713.0	1313.2	2518.4	3241.2	3165.7	3223.9	2528.7
70°	208.4	213.9	256.3	320.9	434.7	750.8	2025.3	3369.1	3474.6	3459.6	2622.4
71°	181.2	187.0	231.0	292.0	365.1	579.5	1706.4	3235.2	3485.3	3482.7	2587.1
72.5°	154.4	158.1	192.5	247.3	307.8	406.2	1282.0	2901.5	3336.6	3422.0	2461.1
75°	121.3	124.1	139.5	188.7	242.4	249.4	687.9	2175.3	2740.4	2903.0	2048.9
77.5°	98.8	100.8	108.7	140.1	187.0	176.7	360.9	1415.9	1716.9	1880.5	1206.9
80°	78.5	80.6	85.4	95.0	140.1	126.0	172.2	717.5	829.3	827.6	481.7
82.5°	61.0	61.6	67.2	69.7	95.8	89.4	93.3	303.8	336.5	347.6	173.9
85°	38.5	40.4	59.5	53.5	57.3	52.4	46.0	120.6	148.7	146.5	69.5
87.5°	11.8	12.4	20.1	22.7	25.5	22.9	16.9	35.5	43.4	47.1	17.3
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°	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7	477.7
2.5°	480.4	478.1	469.8	462.9	456.5	449.4	443.4	441.7	440.2	439.6	439.4
5°	484.9	477.9	461.4	447.9	437.2	427.4	421.2	418.4	415.6	415.6	416.5
7.5°	491.4	478.5	453.1	433.0	419.5	410.3	405.8	405.4	406.0	406.6	406.9
10°	498.4	478.1	440.9	415.8	403.9	399.6	399.8	403.4	406.9	409.4	409.9
12.5°	505.3	475.5	426.5	399.8	392.1	393.0	398.9	407.1	413.7	417.3	417.6
15°	513.0	471.5	409.2	384.6	382.0	388.7	399.8	412.2	422.3	428.3	428.9
17.5°	519.4	464.6	391.0	369.9	373.1	385.3	400.7	416.7	428.9	436.4	437.7
20°	526.7	455.8	372.2	355.7	364.9	381.4	398.9	416.3	428.9	436.2	437.9
22.5°	532.4	443.4	354.2	344.2	357.7	376.7	393.2	407.1	417.3	421.2	423.8
25°	534.8	427.8	337.3	334.8	351.9	369.0	380.1	388.0	391.2	390.8	391.9
27.5°	533.5	409.9	322.8	327.3	344.6	357.0	362.6	361.9	356.2	350.8	353.4
30°	528.1	388.5	310.6	319.6	335.2	342.0	341.2	332.8	321.9	311.9	312.5
32.5°	518.5	365.4	299.3	310.8	321.9	324.9	319.2	308.2	292.6	279.6	277.7
35°	510.4	343.3	289.2	300.8	308.7	307.2	301.6	287.5	273.4	261.8	259.9
37.5°	509.1	324.5	279.6	289.4	293.9	291.8	284.9	273.0	267.8	259.0	258.0
40°	516.0	311.2	269.7	277.4	279.6	277.9	270.4	263.5	268.2	266.1	266.1
42.5°	534.6	304.2	261.0	265.5	267.2	268.5	263.1	257.3	263.1	253.3	250.1
45°	564.1	304.4	253.1	253.7	258.8	263.3	259.7	251.1	248.1	228.5	224.6
47.5°	607.5	311.7	246.6	242.6	251.8	259.3	254.1	241.7	228.5	215.4	213.1
50°	658.2	324.7	240.9	231.0	242.4	254.1	250.3	235.7	222.0	214.1	212.6
52.5°	714.5	341.2	233.8	218.2	230.8	251.8	251.1	234.9	216.1	210.7	209.4
55°	784.0	357.4	225.0	203.2	220.5	249.8	248.8	227.8	214.8	210.9	210.5
57.5°	864.8	381.0	212.4	188.0	208.8	241.9	239.6	223.5	210.5	207.7	207.5
60°	995.1	417.6	194.4	174.1	196.8	228.0	231.0	216.3	203.6	203.0	202.8
62.5°	1166.5	468.9	175.8	159.8	182.9	210.1	218.6	206.4	196.4	199.6	200.0
65°	1403.1	512.1	156.6	147.6	167.5	192.7	206.9	197.2	188.2	194.4	194.4
67.5°	1557.3	513.0	139.0	135.0	151.9	178.2	194.4	186.3	177.8	188.2	188.7
70°	1525.2	449.4	124.5	121.7	136.7	162.6	180.8	174.3	164.5	173.9	170.5
71°	1473.4	414.1	118.7	116.6	130.7	155.1	174.3	169.0	159.2	165.4	163.4
72.5°	1390.9	359.6	109.3	109.7	121.7	145.7	165.4	159.8	150.0	153.4	152.7
75°	1175.7	314.0	93.5	95.4	104.6	129.6	147.4	143.1	133.1	133.1	132.4
77.5°	735.0	219.5	77.7	78.7	88.8	111.0	126.6	123.0	113.4	110.2	109.3
80°	274.2	113.4	60.8	62.0	68.2	87.5	104.8	101.4	91.6	87.9	84.5
82.5°	103.7	56.9	44.7	43.6	50.3	66.7	82.1	78.1	70.4	61.6	59.0
85°	39.1	28.2	27.4	26.5	29.5	39.6	50.9	50.1	41.9	35.7	35.1
87.5°	10.3	9.2	10.7	7.9	8.3	7.5	7.7	3.2	1.5	0.6	0.4
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)