

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: P647716

Luminaire Tested: **GALN-SA1A-835-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647716  
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-835-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 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: 3590.8 lumens  
Efficiency: N/A  
Efficacy: 108.8 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

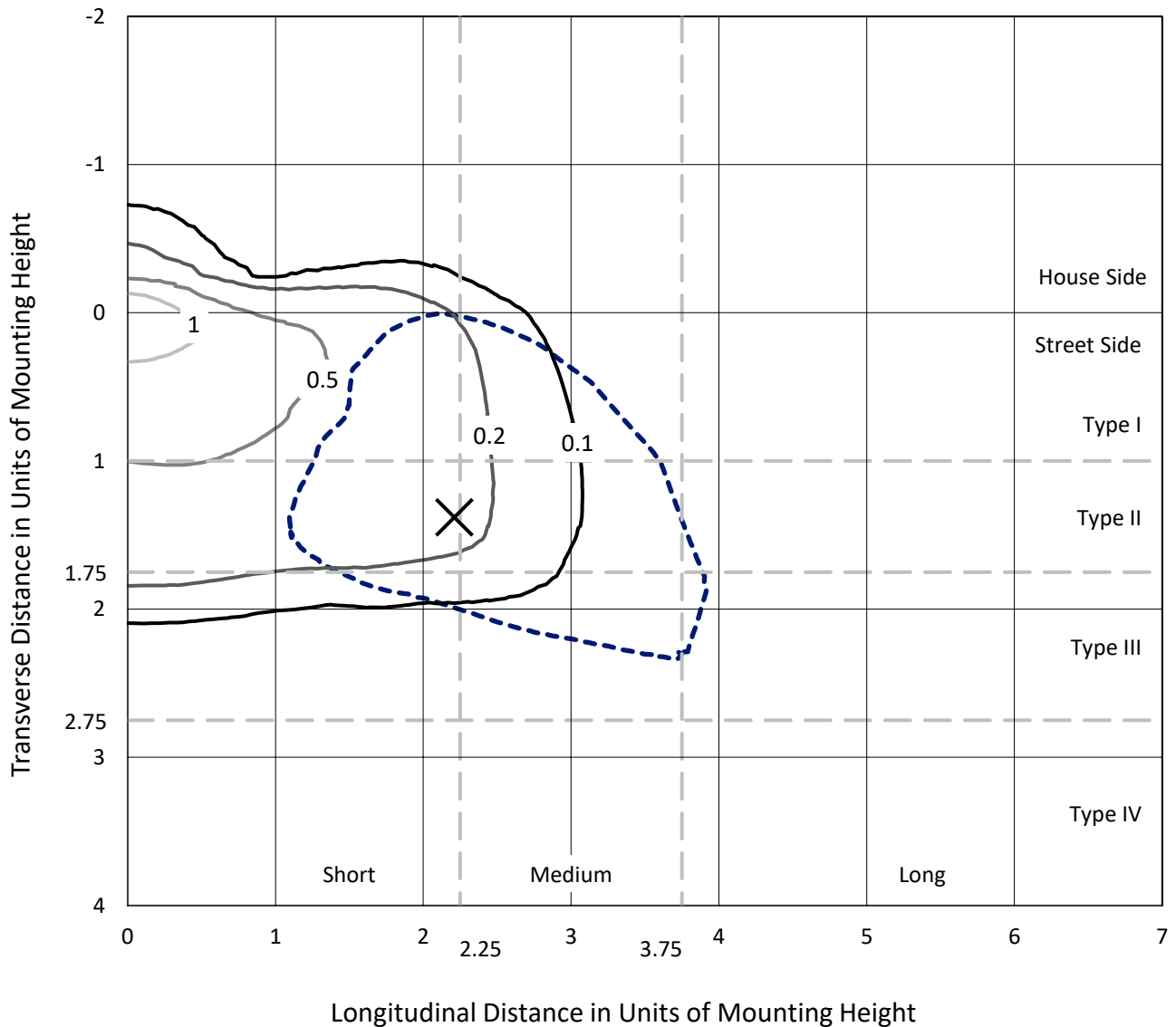
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

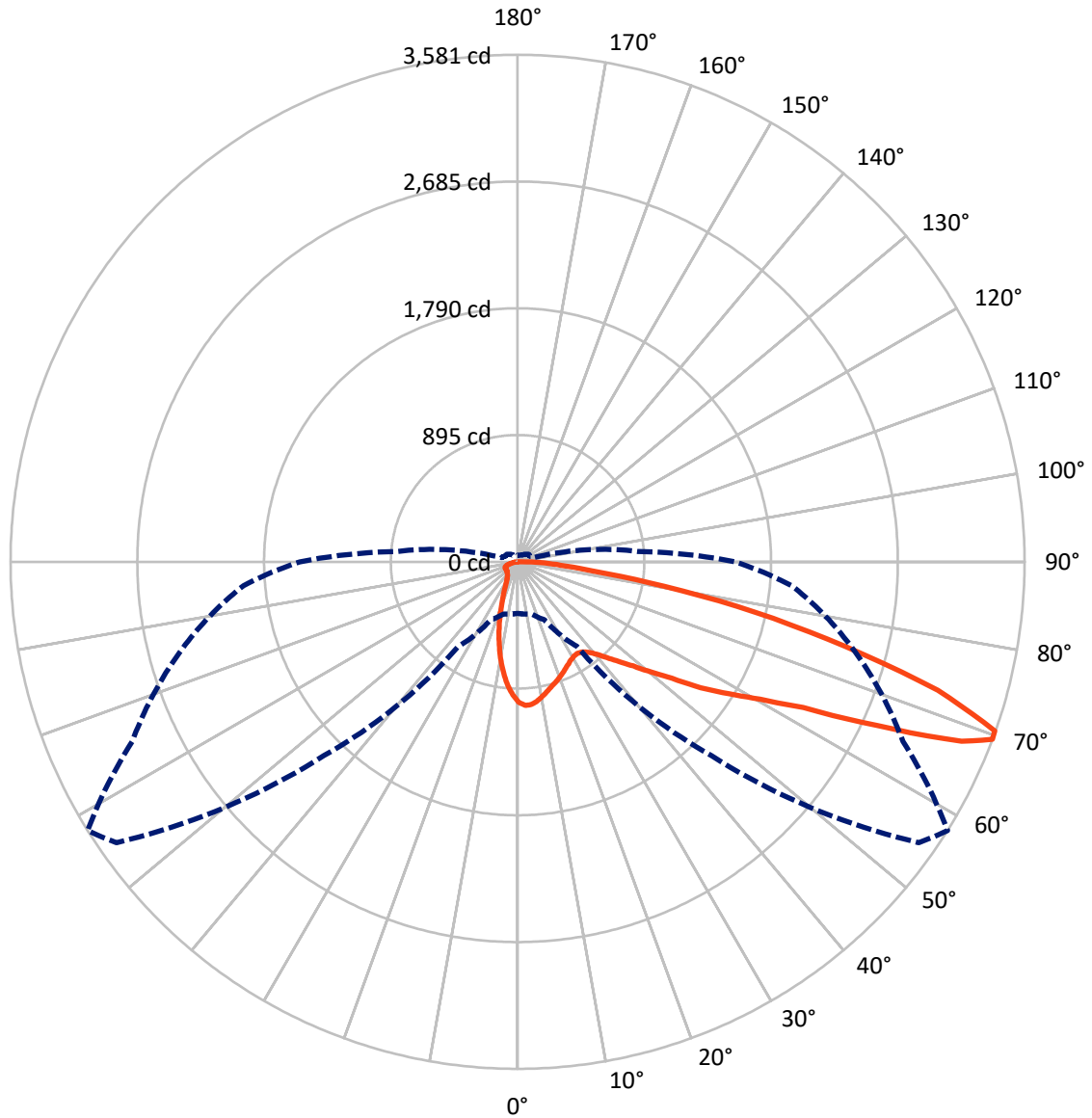
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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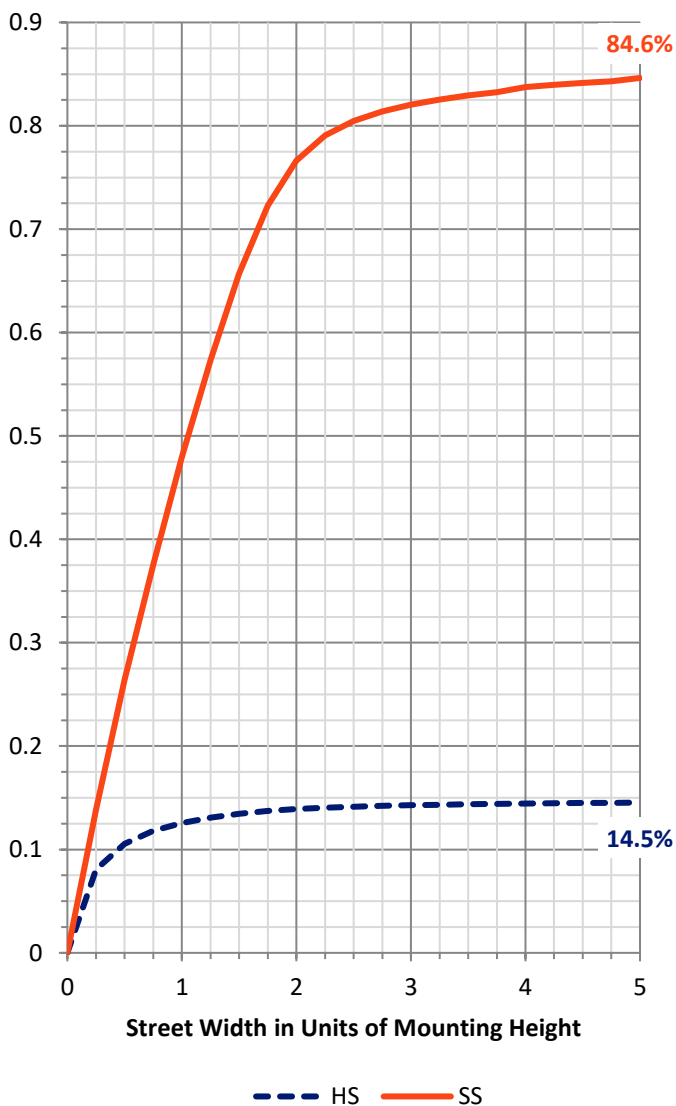
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	526.2	0.0	526.2
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	3064.6	0.0	3064.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	3590.8	0.0	3590.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	2.3
10°-20°	185.0	5.2
20°-30°	239.1	6.7
30°-40°	310.5	8.6
40°-50°	451.4	12.6
50°-60°	720.4	20.1
60°-70°	962.3	26.8
70°-80°	554.7	15.4
80°-90°	83.1	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°	3590.8	100.0
0°-180°	3590.8	100.0

**Coefficient of Utilization**



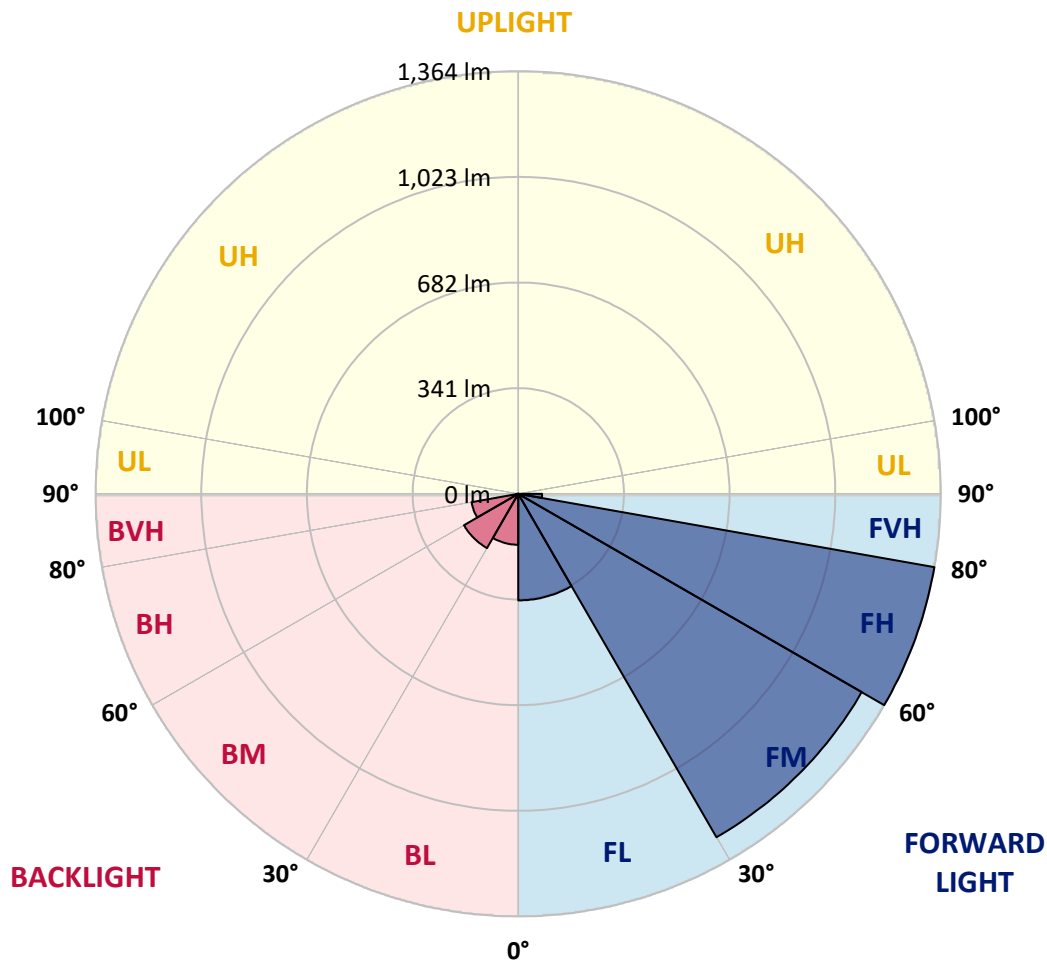
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.9	9.6			
FM (30°-60°)	1279.9	35.6			
FH (60°-80°)	1364.0	38.0			G1/1800
FVH (80°-90°)	76.7	2.1			G1/100
BL (0°-30°)	164.5	4.6	B1/500		
BM (30°-60°)	202.4	5.6	B0/220		
BH (60°-80°)	153.0	4.3	B1/500		G1/500
BVH (80°-90°)	6.4	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3
2.5°	1029.2	1031.9	1031.1	1030.1	1028.5	1024.2	1017.0	1015.7	1011.1	1001.3	989.1
5°	1013.4	1015.7	1015.9	1017.4	1019.3	1018.5	1013.4	1012.7	1005.9	992.7	972.3
7.5°	959.0	962.2	969.3	977.1	984.1	990.7	992.3	993.3	989.1	973.9	946.6
10°	897.9	901.2	904.4	916.0	933.3	949.6	963.2	965.0	966.1	952.0	918.8
12.5°	830.3	836.9	843.7	860.9	883.9	909.8	933.8	937.6	944.5	933.8	894.7
15°	772.8	779.6	789.4	804.8	832.7	869.9	903.8	910.0	923.4	918.0	872.3
17.5°	733.0	735.4	742.2	759.8	789.8	829.1	874.4	886.7	908.2	906.8	853.1
20°	701.5	704.5	708.7	719.6	750.8	792.2	846.9	862.9	892.0	896.8	834.1
22.5°	688.3	690.5	689.9	695.7	716.9	758.6	819.1	838.1	877.6	890.0	816.4
25°	689.1	691.1	688.1	686.7	699.3	729.0	790.0	814.2	865.9	885.3	800.5
27.5°	702.5	703.9	698.3	692.7	693.7	710.5	766.0	792.9	856.1	887.4	787.0
30°	720.5	723.2	719.6	712.8	705.3	706.1	750.6	777.0	851.5	894.3	780.7
32.5°	743.8	746.2	744.6	739.2	729.5	719.0	746.7	771.2	851.9	908.6	779.2
35°	768.2	773.0	775.6	775.2	767.4	749.0	761.8	782.1	861.5	932.4	787.5
37.5°	795.8	799.8	811.0	818.2	811.0	789.7	795.6	809.6	882.8	966.8	805.5
40°	822.7	828.6	845.1	867.6	864.7	845.9	847.3	856.5	920.2	1018.1	840.7
42.5°	850.7	857.9	886.6	919.8	926.4	911.8	915.6	923.8	973.5	1089.2	901.2
45°	886.7	895.4	930.6	972.1	998.1	989.1	999.9	1003.9	1044.8	1181.8	980.9
47.5°	933.3	943.2	986.7	1038.3	1075.2	1083.4	1102.2	1099.8	1133.1	1291.3	1084.2
50°	1011.6	1017.1	1058.1	1110.8	1161.5	1198.5	1219.0	1222.8	1242.6	1397.8	1199.8
52.5°	1104.7	1109.7	1139.3	1185.4	1248.8	1327.3	1377.8	1365.4	1370.2	1527.6	1334.9
55°	1209.3	1217.8	1236.6	1267.3	1349.6	1465.1	1566.5	1569.4	1516.2	1651.7	1464.5
57.5°	1290.5	1304.7	1337.0	1380.6	1485.0	1618.3	1754.5	1756.5	1688.4	1784.3	1607.5
60°	1249.7	1266.4	1340.2	1446.5	1662.5	1885.7	1979.2	1967.8	1856.0	1935.3	1782.0
62.5°	1073.4	1076.4	1183.6	1349.7	1717.3	2243.3	2313.6	2265.4	2079.7	2126.8	1959.1
65°	694.7	714.3	799.2	1032.2	1537.6	2441.8	2899.6	2788.0	2393.3	2344.1	2107.5
67.5°	438.6	433.5	468.8	589.4	1057.6	2266.9	3399.6	3382.0	2803.5	2481.2	2072.1
69°	363.7	369.3	381.3	451.8	727.7	1935.5	3458.7	3580.5	3002.3	2470.4	1943.3
70°	329.8	332.5	345.1	400.5	561.6	1621.1	3361.8	3575.1	3080.4	2425.2	1850.0
72.5°	261.8	261.5	283.1	333.2	419.8	925.4	2760.4	3103.9	2993.1	2214.5	1528.6
75°	198.9	202.1	225.9	282.0	386.7	505.7	1926.3	2390.3	2390.5	1749.1	953.9
77.5°	143.4	145.4	173.2	236.7	364.3	409.9	1283.1	1714.5	1611.7	801.5	299.8
80°	94.0	95.1	116.4	187.5	328.5	386.7	760.8	1049.4	760.2	212.7	99.1
82.5°	51.4	57.5	71.1	121.4	263.6	357.3	462.4	531.1	285.2	94.7	51.7
85°	25.8	27.4	40.1	70.9	172.3	295.6	322.0	304.6	147.2	47.1	26.9
87.5°	7.6	9.6	16.6	27.4	69.9	154.0	179.2	160.8	56.7	17.0	5.6
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°	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3	992.3
2.5°	984.1	980.5	964.5	950.0	936.9	922.8	911.0	900.6	901.5	901.8	891.1
5°	961.7	953.5	923.0	894.6	870.5	840.1	814.1	797.3	788.8	777.6	781.6
7.5°	931.2	915.4	873.1	825.9	781.6	742.2	699.3	669.9	651.1	632.8	635.2
10°	899.7	874.4	812.8	750.3	693.1	630.0	575.3	528.5	493.7	480.6	472.0
12.5°	867.6	834.1	756.0	672.9	593.7	518.3	440.8	390.5	352.0	331.6	334.3
15°	838.1	797.4	696.7	595.4	492.7	402.7	325.4	277.6	250.7	245.2	248.3
17.5°	810.9	757.6	641.3	520.1	400.1	302.0	244.5	217.5	206.6	203.7	203.5
20°	782.8	723.7	579.0	439.6	311.8	234.1	200.7	188.1	186.0	187.2	187.5
22.5°	754.4	681.9	514.9	359.6	248.3	191.4	175.4	172.0	173.6	176.4	176.8
25°	728.2	645.0	453.2	289.6	198.3	168.2	160.4	160.4	164.0	168.2	168.4
27.5°	706.5	609.4	391.7	229.9	166.0	151.4	148.8	150.2	155.2	158.4	158.6
30°	688.7	576.1	333.6	184.2	146.0	138.0	137.4	139.8	143.4	146.4	146.6
32.5°	675.3	546.9	279.4	154.8	132.2	127.8	127.6	129.4	131.4	132.2	133.0
35°	670.1	522.7	229.7	136.2	122.9	120.2	120.2	120.0	120.7	121.1	121.5
37.5°	674.3	504.1	191.3	124.2	116.1	114.2	112.9	111.7	111.3	111.3	111.6
40°	692.1	494.2	162.6	116.4	111.3	108.4	106.2	104.8	103.4	103.7	104.1
42.5°	730.0	496.0	143.2	111.1	107.1	103.0	99.8	98.1	97.1	98.3	98.1
45°	790.2	514.0	130.8	107.5	103.0	97.6	94.5	92.9	92.9	94.7	95.3
47.5°	874.5	548.5	124.2	104.8	99.8	93.3	90.3	89.1	89.5	92.6	92.7
50°	977.5	608.4	122.9	103.4	98.1	90.3	86.9	85.7	86.7	89.9	90.3
52.5°	1091.0	685.5	128.8	103.5	96.7	88.5	84.1	82.3	83.3	85.9	86.7
55°	1225.6	782.1	143.8	104.4	94.7	87.5	82.1	78.1	79.3	81.1	81.3
57.5°	1363.0	903.8	170.2	104.5	93.1	85.7	78.7	73.5	73.5	74.7	75.3
60°	1530.8	1036.4	205.1	104.8	93.3	83.1	74.1	68.3	67.5	68.1	68.3
62.5°	1697.4	1147.3	210.9	104.1	95.3	80.5	69.1	63.1	61.7	61.5	61.1
65°	1770.9	1126.7	172.8	101.3	97.6	78.9	65.1	58.1	55.7	54.9	54.9
67.5°	1651.2	953.1	130.0	97.6	96.2	77.3	61.3	53.9	51.1	49.5	49.5
69°	1538.6	847.7	116.7	94.9	92.6	74.7	58.9	51.7	48.2	46.4	45.9
70°	1451.7	775.2	111.1	92.7	89.1	71.7	57.1	50.0	46.3	44.2	43.8
72.5°	1158.5	608.2	97.3	84.3	75.9	60.3	50.7	45.0	41.4	39.2	38.7
75°	667.7	329.6	80.7	73.3	61.1	46.8	42.8	39.2	36.4	34.5	33.8
77.5°	205.5	127.4	58.5	57.9	44.9	36.3	34.2	32.8	30.9	28.7	28.3
80°	86.5	64.9	39.6	39.1	29.8	25.2	24.7	24.4	23.6	21.8	21.2
82.5°	47.4	36.6	27.6	24.0	18.0	14.6	15.2	15.4	14.8	13.0	11.8
85°	23.3	20.0	13.4	10.8	8.2	5.2	5.0	6.0	5.6	4.0	4.4
87.5°	4.6	5.6	3.6	1.6	0.8	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)