

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: P647715

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647715  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
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-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2997.3 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

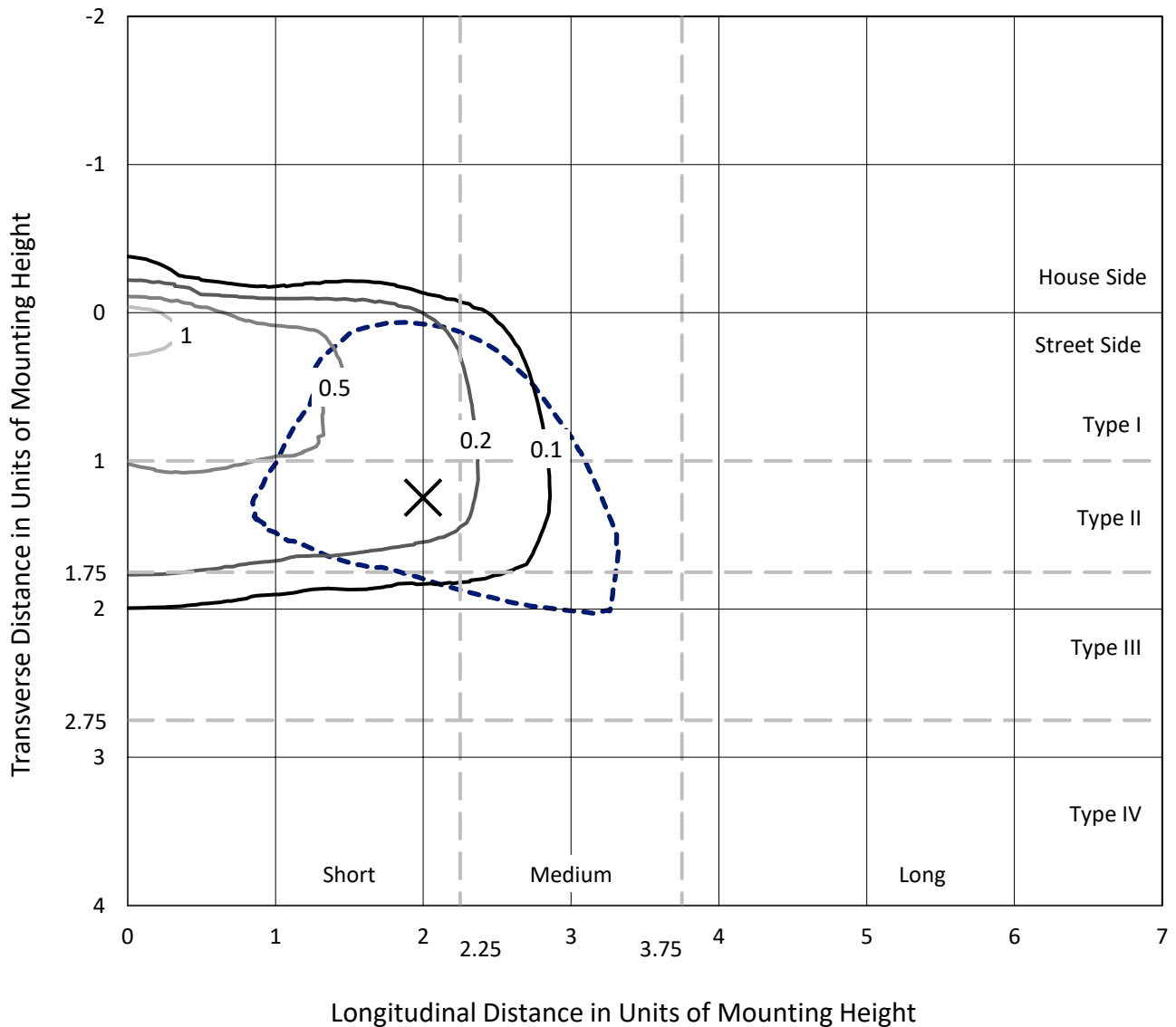
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

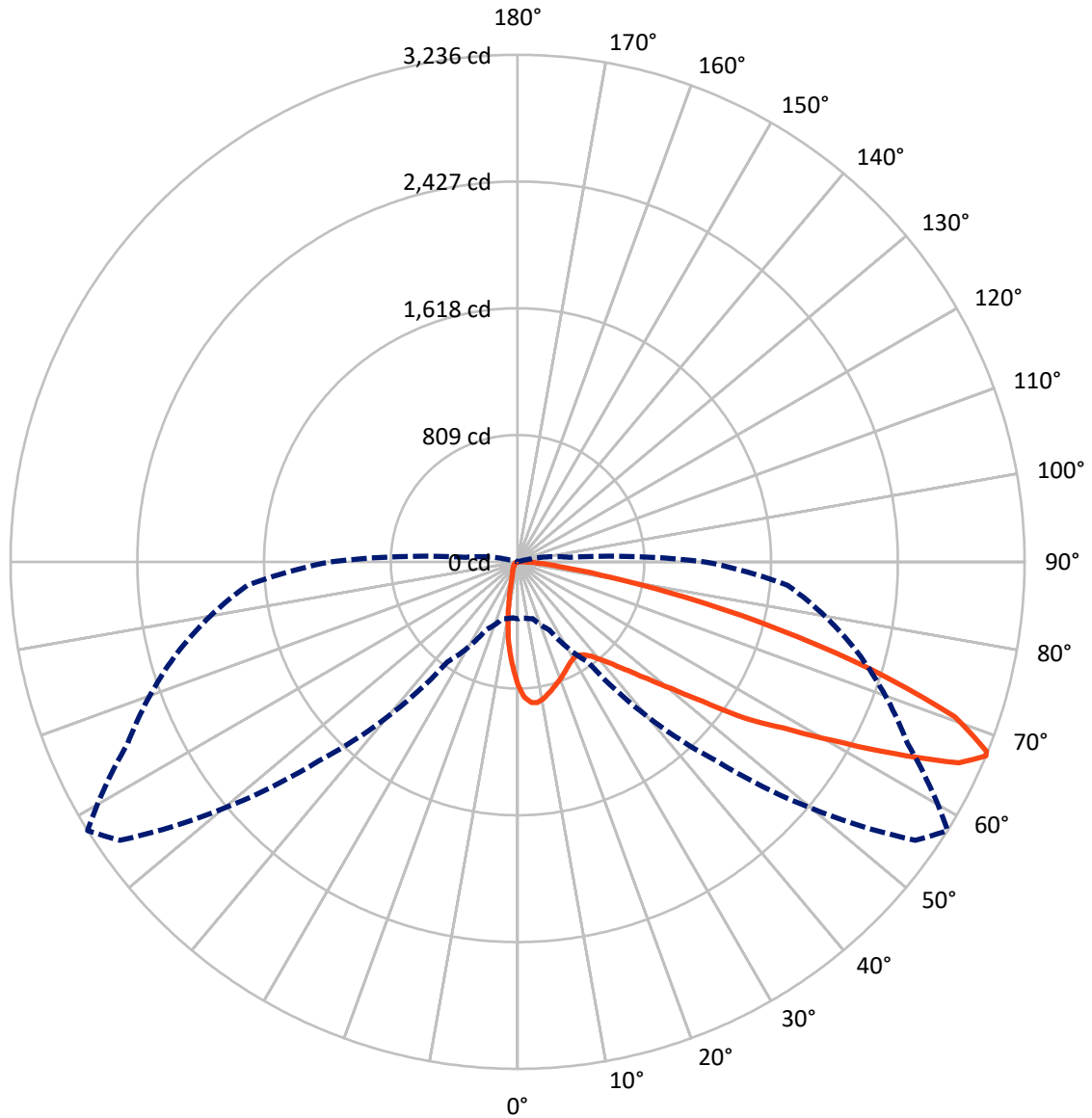
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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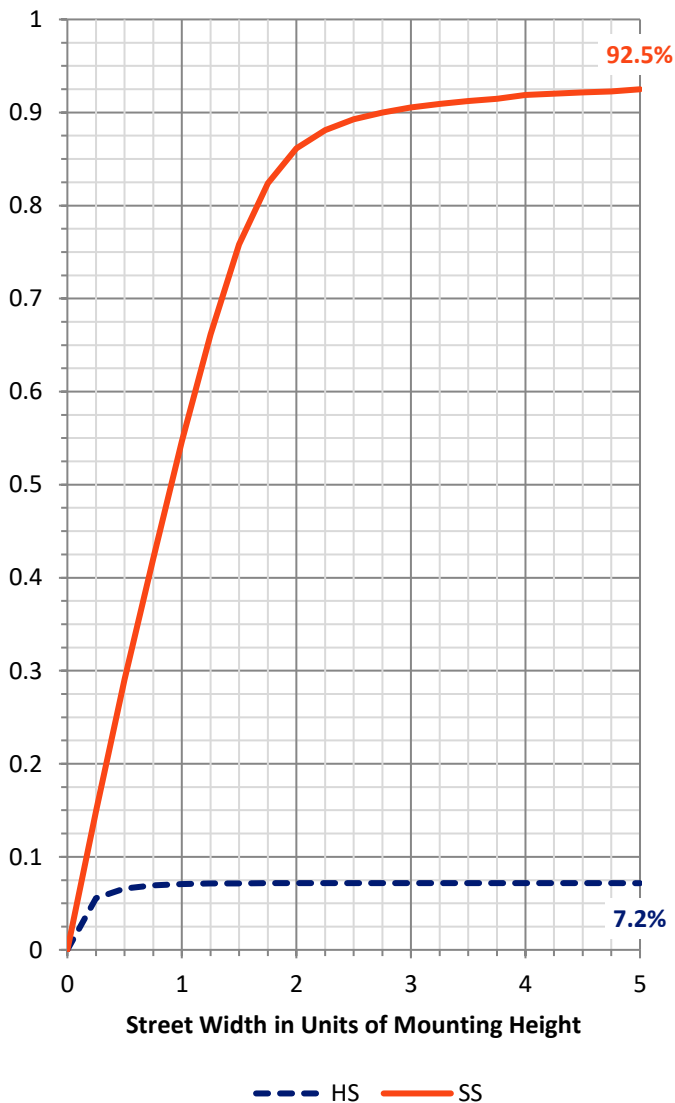
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	216.3	0.0	216.3
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	2781.0	0.0	2781.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	2997.3	0.0	2997.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.5	2.2
10°-20°	139.3	4.6
20°-30°	188.7	6.3
30°-40°	261.7	8.7
40°-50°	417.4	13.9
50°-60°	721.5	24.1
60°-70°	824.2	27.5
70°-80°	343.6	11.5
80°-90°	36.4	1.2
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°	2997.3	100.0
0°-180°	2997.3	100.0



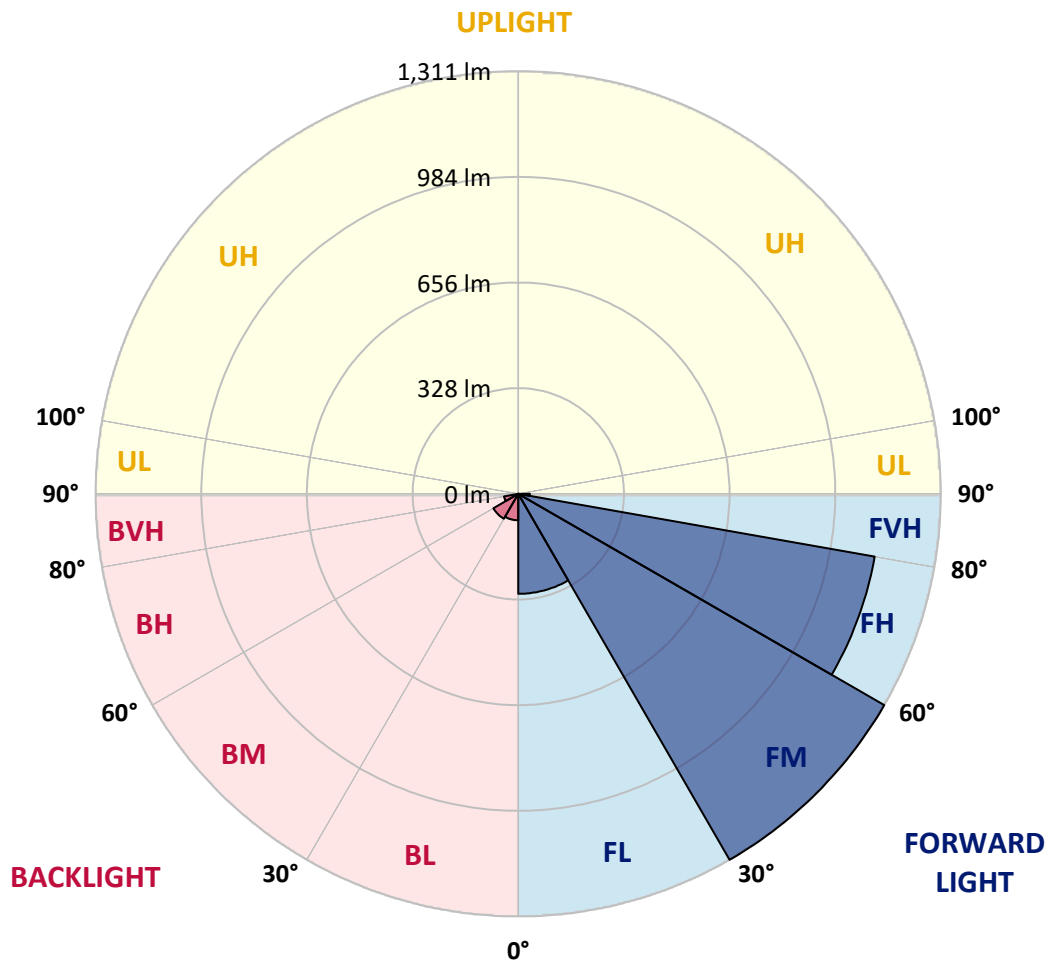
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	310.3	10.4			
FM (30°-60°)	1311.5	43.8			
FH (60°-80°)	1123.1	37.5			G1/1800
FVH (80°-90°)	36.2	1.2			G1/100
BL (0°-30°)	82.1	2.7	B0/110		
BM (30°-60°)	89.2	3.0	B0/220		
BH (60°-80°)	44.7	1.5	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6
2.5°	922.1	923.5	918.4	914.2	903.3	891.7	876.3	868.0	854.0	829.8	803.0
5°	943.7	945.6	944.8	943.7	939.6	928.3	908.7	901.5	880.9	841.4	792.9
7.5°	895.7	902.3	903.1	910.9	918.4	919.3	912.0	906.6	887.5	841.3	775.2
10°	832.0	836.4	842.8	851.8	869.7	884.5	891.7	890.9	879.9	835.0	754.3
12.5°	767.7	770.2	779.9	795.4	817.2	842.4	861.7	865.4	865.7	827.6	736.9
15°	712.5	711.4	719.0	736.9	767.5	799.2	833.6	839.6	849.2	820.4	720.7
17.5°	665.2	670.4	671.6	691.2	719.4	760.5	804.4	815.0	834.2	814.2	707.2
20°	636.0	638.8	641.4	652.3	677.8	721.1	777.0	791.5	820.2	808.6	692.3
22.5°	627.3	629.1	626.9	630.3	648.3	686.8	747.1	766.6	806.8	803.4	680.0
25°	633.9	635.7	630.5	626.5	632.7	659.0	718.2	741.9	796.0	802.3	670.8
27.5°	650.0	653.3	646.1	638.9	635.3	643.9	695.6	723.0	788.6	807.2	666.6
30°	675.0	677.0	671.6	662.7	654.6	646.0	683.8	710.0	786.5	818.4	666.2
32.5°	702.2	706.4	703.4	697.7	687.0	666.6	687.2	710.4	791.4	834.6	671.2
35°	735.9	740.7	743.5	742.3	728.7	703.2	708.8	728.5	804.1	864.4	684.8
37.5°	768.9	773.1	789.0	794.4	782.4	758.3	750.9	763.9	832.4	903.5	709.5
40°	806.8	812.4	834.6	855.3	849.5	824.2	810.6	821.4	875.7	962.4	756.1
42.5°	843.1	853.1	886.9	923.3	928.8	900.5	891.5	895.1	939.8	1047.1	821.2
45°	894.5	903.9	947.6	997.1	1022.5	1000.4	991.3	990.7	1027.7	1166.3	926.8
47.5°	968.8	977.3	1028.7	1077.6	1122.8	1125.9	1108.4	1114.4	1138.2	1305.7	1056.1
50°	1059.9	1079.8	1113.7	1164.5	1225.0	1273.9	1279.3	1271.3	1291.7	1467.2	1211.5
52.5°	1192.4	1199.9	1231.0	1272.8	1343.8	1426.7	1491.0	1479.9	1473.5	1621.0	1368.6
55°	1291.1	1301.3	1349.6	1407.1	1511.0	1620.3	1759.8	1763.6	1682.7	1768.8	1522.2
57.5°	1261.3	1276.8	1350.0	1465.5	1694.1	1894.0	1997.7	2000.3	1876.1	1912.4	1695.7
60°	1108.0	1115.5	1220.1	1374.4	1709.7	2190.4	2335.2	2314.2	2073.1	2073.1	1848.9
62.5°	785.7	797.3	882.3	1109.2	1544.1	2293.3	2739.4	2695.9	2344.2	2226.7	1940.3
65°	502.1	490.9	547.2	700.2	1150.3	2141.3	3091.4	3093.9	2599.4	2288.2	1890.4
67°	363.7	359.3	375.5	478.7	779.9	1800.0	3098.7	3235.9	2746.0	2249.3	1730.9
67.5°	332.7	336.1	347.9	431.8	708.6	1638.0	3065.1	3227.5	2779.1	2225.8	1673.3
70°	252.2	246.3	259.2	305.4	424.9	1033.3	2636.7	2960.1	2738.0	1993.3	1337.0
72.5°	185.5	184.9	202.7	249.8	327.1	550.4	1979.3	2373.5	2236.9	1517.8	841.8
75°	125.2	130.8	159.3	208.7	296.4	356.9	1349.3	1721.9	1552.8	861.8	344.1
77.5°	71.3	71.7	102.6	167.6	266.2	287.2	799.6	1097.0	822.0	286.7	102.2
80°	30.9	33.8	50.9	121.8	220.7	254.4	458.4	602.9	332.5	60.7	33.0
82.5°	11.4	13.4	22.4	74.9	161.1	209.5	277.0	287.8	112.8	21.5	20.6
85°	0.0	0.4	8.2	35.1	83.9	93.6	185.1	170.6	49.9	10.2	13.4
87.5°	0.0	0.0	0.0	3.6	11.0	34.8	57.5	64.1	12.0	3.6	3.2
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°	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6
2.5°	788.6	775.6	742.9	710.3	686.0	665.8	635.3	618.7	609.9	596.9	597.7
5°	768.7	742.3	684.8	625.3	577.2	530.4	474.3	451.6	432.6	421.8	414.6
7.5°	739.3	700.2	615.1	535.8	461.9	380.0	318.4	277.4	249.8	239.5	229.7
10°	707.0	655.1	544.4	434.4	331.9	247.3	195.3	157.6	144.2	131.8	133.0
12.5°	677.2	614.1	479.5	342.9	232.6	157.2	122.6	107.2	102.7	101.3	101.3
15°	652.8	574.9	409.8	257.8	159.4	113.0	98.1	94.0	92.3	91.9	91.9
17.5°	626.7	537.6	346.9	190.5	116.0	94.5	89.5	86.8	86.1	85.7	85.7
20°	603.5	500.1	287.2	141.8	93.7	85.1	81.9	80.1	79.6	79.1	79.3
22.5°	581.5	466.9	231.1	107.2	82.5	77.5	74.3	72.5	71.3	70.3	70.5
25°	561.8	434.8	185.9	87.7	74.3	69.9	66.7	64.1	61.5	60.3	60.1
27.5°	548.0	406.8	144.8	75.1	66.9	62.1	58.1	54.9	51.4	49.6	49.3
30°	536.6	378.3	114.6	66.3	59.5	54.9	49.9	45.3	41.7	39.9	39.1
32.5°	529.2	351.3	90.4	59.1	53.2	47.7	42.0	37.4	33.4	31.6	31.2
35°	528.0	328.7	73.9	53.1	47.7	41.7	35.9	30.9	27.4	25.6	25.2
37.5°	536.6	311.2	61.9	48.2	43.1	36.5	30.1	25.4	22.4	21.1	20.8
40°	559.6	300.2	53.7	44.2	38.8	31.6	25.6	21.6	18.6	17.2	17.2
42.5°	603.5	300.7	48.2	40.5	34.7	27.0	21.8	18.0	15.4	14.3	13.9
45°	672.0	314.3	43.7	36.6	30.6	23.4	18.6	14.8	12.2	11.2	11.2
47.5°	763.7	341.3	39.6	32.9	27.0	20.0	15.8	12.0	9.8	8.8	8.8
50°	883.7	384.8	36.3	29.7	24.0	17.2	12.8	9.8	7.6	6.8	6.6
52.5°	1009.1	438.5	32.3	26.9	20.6	14.6	10.4	7.6	5.8	5.2	5.0
55°	1147.5	490.9	28.4	24.0	16.8	12.2	8.2	6.0	4.2	3.6	3.6
57.5°	1287.1	542.4	23.8	20.0	13.2	9.0	6.4	4.4	2.8	2.2	2.2
60°	1405.3	559.0	20.2	16.2	10.0	6.4	4.6	2.8	1.6	1.0	1.0
62.5°	1421.5	502.9	17.0	12.4	7.2	4.4	2.4	1.6	0.6	0.4	0.4
65°	1333.4	408.6	14.3	9.4	4.8	2.2	1.0	0.6	0.2	0.0	0.0
67°	1194.8	331.3	11.6	7.0	3.4	1.4	0.6	0.2	0.0	0.0	0.0
67.5°	1159.3	315.9	11.2	6.6	3.0	1.2	0.4	0.2	0.0	0.0	0.0
70°	909.8	236.5	8.0	4.0	1.8	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	565.4	133.8	5.8	2.4	1.2	0.4	0.0	0.0	0.0	0.0	0.0
75°	213.7	46.9	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	66.5	17.9	2.4	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.4	6.8	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.9	2.8	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.6	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.4	0.2	0.0	0.0	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)