

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: P651690

Luminaire Tested: **GALN-SA1A-840-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651690  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2909 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

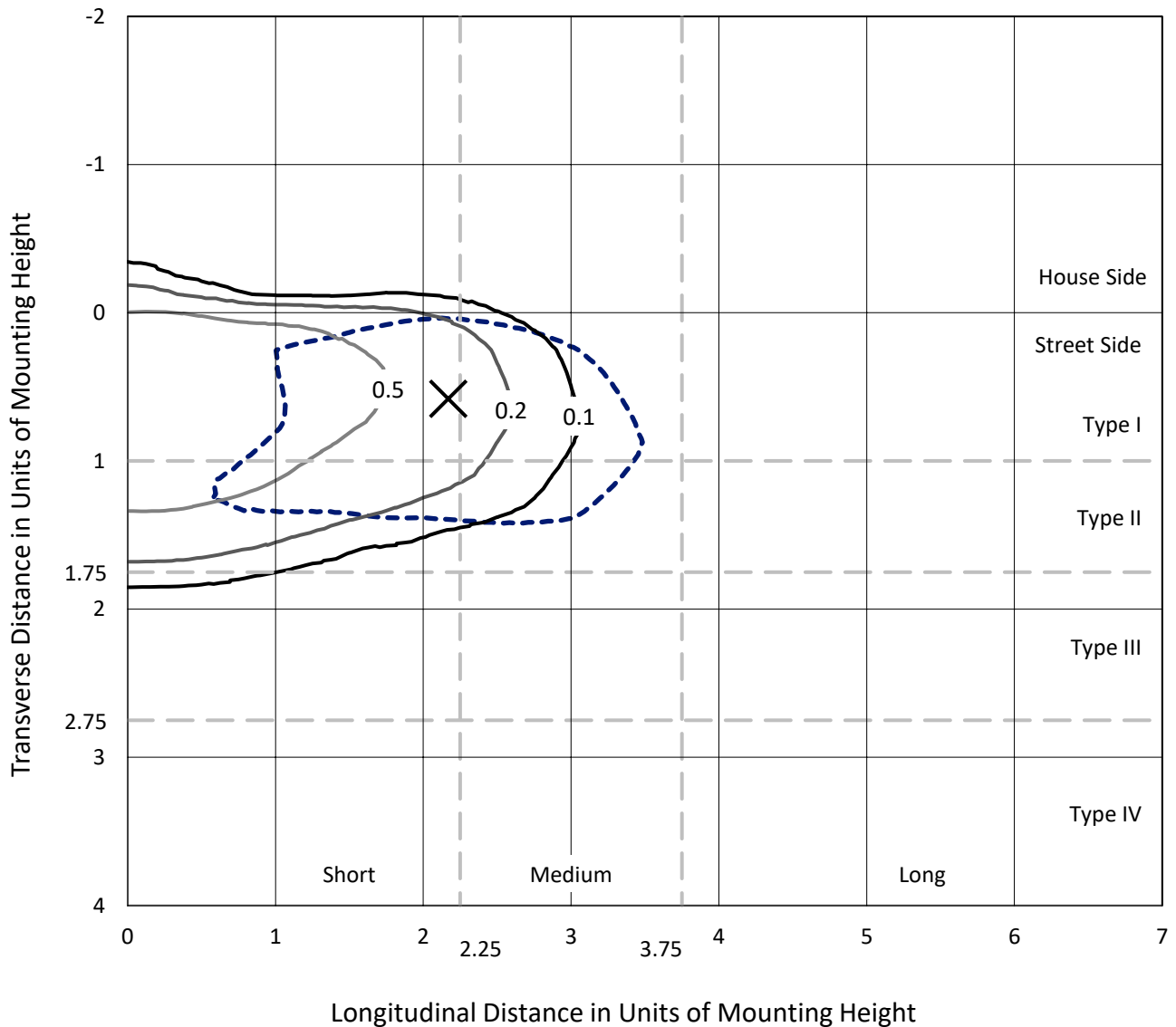
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

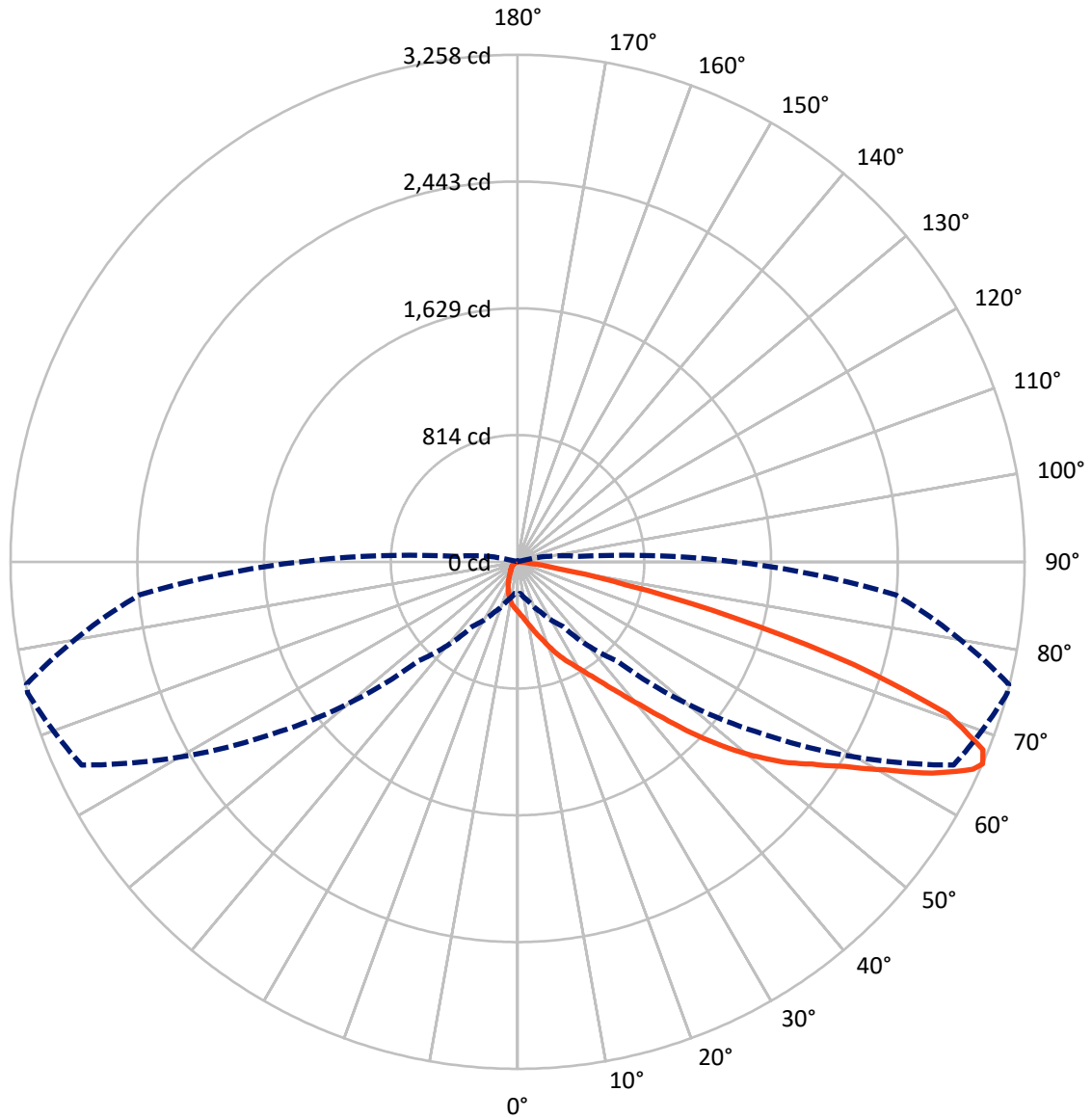
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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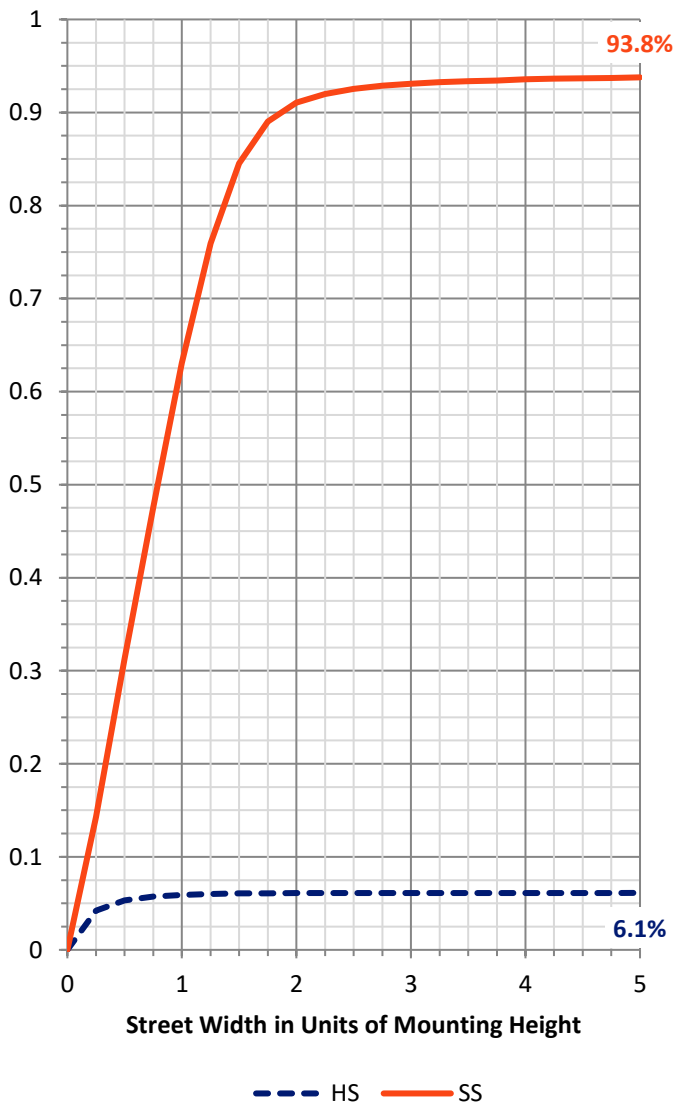
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	179.6	0.0	179.6
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	2729.4	0.0	2729.4
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	2909.0	0.0	2909.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.7	1.1
10°-20°	90.3	3.1
20°-30°	155.9	5.4
30°-40°	281.3	9.7
40°-50°	508.1	17.5
50°-60°	792.2	27.2
60°-70°	752.5	25.9
70°-80°	282.0	9.7
80°-90°	15.9	0.5
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°	2909.0	100.0
0°-180°	2909.0	100.0

**Coefficient of Utilization**

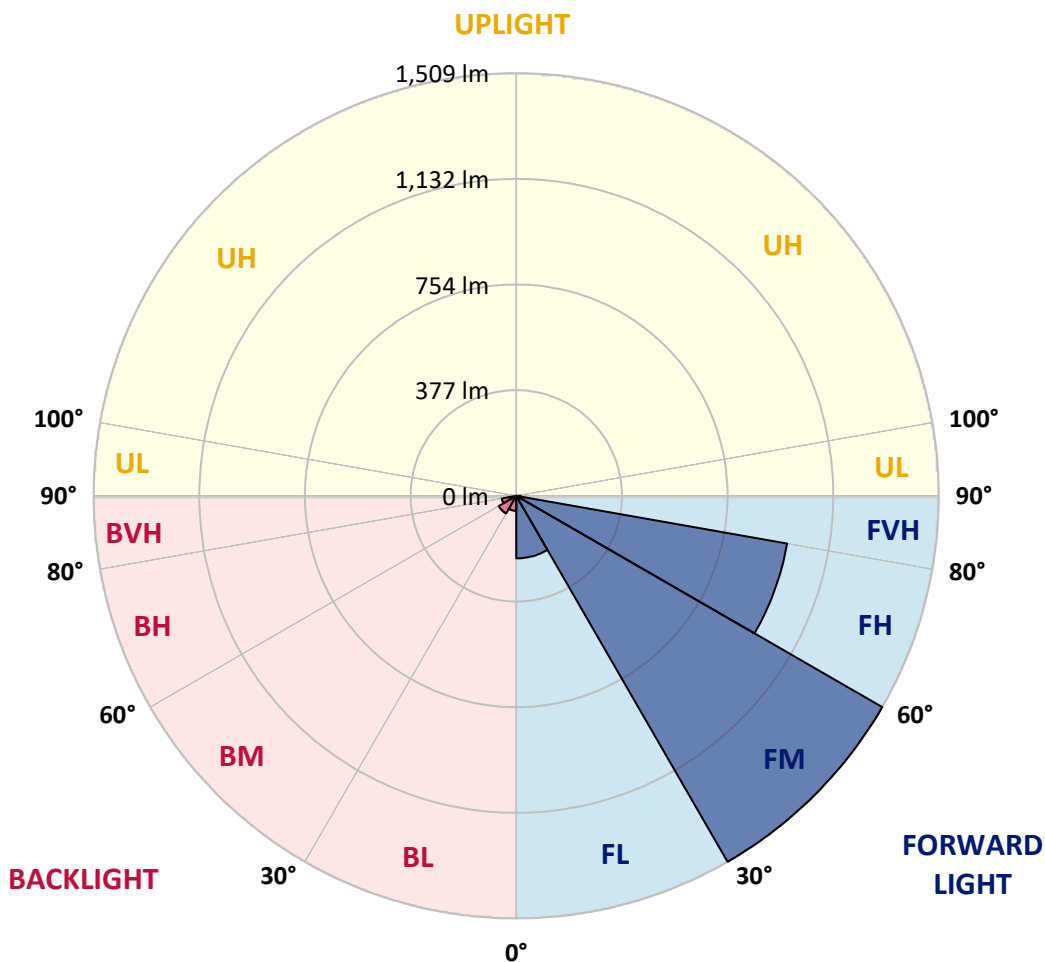


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	223.3	7.7			
FM (30°-60°)	1508.9	51.9			
FH (60°-80°)	982.1	33.8			G1/1800
FVH (80°-90°)	15.1	0.5			G1/100
BL (0°-30°)	53.6	1.8	B0/110		
BM (30°-60°)	72.7	2.5	B0/220		
BH (60°-80°)	52.4	1.8	B0/110		G0/110
BVH (80°-90°)	0.8	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2
2.5°	380.0	375.3	376.9	374.7	369.8	362.5	356.0	346.7	337.5	336.0	325.6
5°	430.2	428.9	427.1	420.9	417.5	406.3	393.0	377.1	357.9	354.5	335.7
7.5°	464.4	463.7	464.7	461.4	458.3	448.3	434.0	412.3	382.7	380.7	349.5
10°	475.6	477.3	480.5	485.7	490.4	487.2	476.4	449.3	414.7	409.1	365.2
12.5°	469.1	471.0	478.8	492.6	507.9	516.6	512.3	492.6	448.7	444.2	382.9
15°	452.5	454.9	465.9	487.2	514.5	539.5	550.2	536.1	488.3	481.0	404.2
17.5°	428.1	431.5	447.2	475.3	512.8	555.8	586.2	581.4	530.4	523.5	427.4
20°	409.6	412.1	425.5	457.8	505.4	564.8	620.3	633.7	582.5	570.6	454.7
22.5°	421.8	422.7	427.1	446.6	492.3	567.3	650.4	688.1	637.7	627.2	483.1
25°	481.8	473.2	468.7	464.4	489.5	565.1	677.8	744.9	692.8	681.6	511.3
27.5°	576.4	572.6	549.8	519.2	513.4	567.8	695.8	798.7	744.7	732.6	538.8
30°	679.5	672.8	658.8	614.1	569.2	587.6	709.0	850.9	805.9	790.0	564.0
32.5°	774.1	778.4	757.6	711.6	659.5	629.8	726.0	907.9	876.3	856.6	593.2
35°	884.5	893.1	861.0	816.9	756.1	705.9	759.1	972.3	965.6	940.7	638.4
37.5°	996.6	1001.7	982.1	920.2	865.3	802.7	821.5	1051.6	1075.5	1054.2	692.4
40°	1090.8	1097.8	1083.5	1028.4	969.8	914.8	912.0	1138.1	1206.2	1184.3	772.9
42.5°	1162.9	1168.2	1168.7	1129.7	1077.0	1052.0	1027.5	1248.5	1370.2	1344.8	866.2
45°	1253.8	1261.6	1257.0	1230.6	1191.2	1186.7	1174.0	1381.8	1566.4	1534.3	987.3
47.5°	1394.5	1399.7	1388.5	1357.3	1317.3	1324.3	1316.8	1531.3	1766.4	1738.9	1112.7
50°	1492.1	1500.8	1516.7	1529.1	1500.1	1473.9	1451.5	1670.9	1956.3	1931.6	1240.9
52.5°	1491.1	1505.2	1555.6	1618.4	1681.8	1673.9	1609.6	1825.1	2137.7	2107.1	1361.3
55°	1390.6	1418.2	1492.1	1603.5	1779.3	1866.9	1837.6	2003.6	2294.2	2273.6	1500.9
57.5°	1183.3	1200.0	1302.9	1458.5	1724.9	1957.6	2101.7	2245.6	2482.0	2472.4	1717.7
60°	795.8	803.4	935.7	1128.2	1468.5	1867.0	2295.3	2538.4	2713.2	2708.5	1971.0
62.5°	456.0	459.3	555.1	717.5	1044.9	1582.3	2311.7	2899.5	2990.5	2993.1	2263.9
65°	245.4	247.2	324.5	421.2	635.8	1127.8	2078.7	3097.4	3214.6	3219.6	2445.5
66°	211.8	203.7	258.4	359.0	505.9	897.6	1931.4	3090.3	3257.7	3252.3	2439.0
67.5°	161.1	168.5	206.3	275.9	374.9	638.2	1594.5	2952.8	3225.0	3208.2	2339.8
70°	115.3	118.3	146.9	196.8	255.3	350.2	1019.0	2452.5	2931.1	2908.5	2038.5
72.5°	74.4	77.6	104.1	142.4	184.5	191.2	570.5	1772.0	2259.9	2256.6	1535.2
75°	53.2	56.2	68.8	101.9	138.8	118.3	274.7	1194.2	1436.7	1426.9	949.7
77.5°	38.5	40.0	46.0	66.7	99.2	84.8	127.3	637.7	715.2	749.0	419.7
80°	22.1	23.5	32.0	40.6	67.1	57.9	60.9	256.0	263.9	251.2	131.2
82.5°	10.9	12.4	19.2	27.8	42.0	38.9	27.9	77.0	81.3	79.1	33.1
85°	2.6	3.2	10.8	18.2	20.4	17.4	13.5	22.6	27.9	27.3	12.7
87.5°	0.3	0.4	3.9	3.2	3.4	5.8	4.7	5.8	9.0	8.4	4.5
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°	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2
2.5°	320.9	316.8	305.0	293.4	283.8	273.6	264.3	258.9	256.8	254.5	255.5
5°	325.5	315.5	291.7	271.1	250.8	233.6	219.8	211.0	206.7	206.0	205.0
7.5°	331.4	314.4	277.4	245.2	218.7	199.6	183.9	171.2	167.4	163.9	161.1
10°	338.8	312.5	259.9	218.1	189.9	165.8	145.2	130.1	122.4	120.3	121.8
12.5°	346.5	308.9	241.4	193.2	160.7	129.9	110.8	103.3	101.1	100.2	100.4
15°	354.2	304.4	221.9	169.0	128.0	103.7	94.9	92.9	92.1	91.7	91.2
17.5°	361.4	297.0	200.2	145.7	103.7	88.6	85.4	83.7	81.9	81.3	80.2
20°	369.8	288.6	180.6	119.3	87.8	80.2	76.4	73.2	70.6	68.8	68.6
22.5°	377.7	277.9	160.2	99.0	80.0	72.1	65.9	62.4	59.4	57.2	57.9
25°	382.0	264.7	142.0	86.3	72.9	63.9	57.0	52.7	49.5	48.4	48.2
27.5°	382.0	248.7	124.1	79.0	66.4	56.6	49.5	45.4	43.2	41.7	42.0
30°	379.0	230.8	107.6	73.3	60.9	50.1	43.5	39.8	38.1	37.0	36.8
32.5°	376.6	213.8	93.4	68.0	55.1	44.5	38.7	35.9	34.2	33.1	33.1
35°	380.3	199.1	82.4	62.6	49.7	40.2	35.1	32.5	30.8	29.9	29.7
37.5°	390.0	185.9	74.0	56.8	44.7	36.6	32.5	29.4	27.8	26.7	26.2
40°	413.9	178.3	67.8	51.4	40.0	33.6	29.4	26.7	24.6	23.5	23.2
42.5°	452.1	178.5	61.7	46.4	36.3	30.9	26.9	23.6	21.3	20.2	20.0
45°	509.8	186.7	57.0	41.7	33.1	28.2	24.1	20.7	18.5	17.4	17.4
47.5°	578.9	202.6	52.9	37.7	30.1	25.6	21.3	17.8	15.7	14.8	14.8
50°	653.7	223.3	48.9	33.3	27.5	22.8	18.2	15.5	13.8	13.1	13.1
52.5°	730.1	248.3	44.7	29.9	24.7	19.8	15.7	13.8	12.3	11.9	11.6
55°	830.3	280.1	40.5	26.2	21.7	17.0	14.0	12.0	10.3	9.7	9.5
57.5°	984.5	328.0	35.7	23.0	17.8	14.2	12.0	10.1	8.2	7.1	6.9
60°	1170.6	386.5	30.8	20.2	14.4	11.6	9.7	7.7	6.1	4.7	4.5
62.5°	1344.8	423.8	26.0	17.0	11.4	8.8	6.9	5.8	4.3	3.0	2.8
65°	1421.8	411.2	21.5	13.8	9.0	6.2	4.5	4.1	2.6	1.3	1.1
66°	1396.2	392.7	19.8	12.4	8.2	5.4	3.9	3.4	1.9	0.7	0.7
67.5°	1320.7	349.1	17.2	10.8	7.1	4.3	3.0	2.6	1.1	0.3	0.0
70°	1131.6	282.4	13.5	8.0	5.1	3.0	1.7	1.3	0.7	0.0	0.0
72.5°	869.2	210.3	10.8	6.1	3.6	1.7	0.8	0.4	0.7	0.0	0.0
75°	532.6	120.3	8.4	4.5	2.4	1.1	0.7	0.0	0.7	0.3	0.0
77.5°	236.4	54.0	5.6	3.0	1.7	0.8	0.4	0.0	0.4	0.3	0.0
80°	59.8	17.7	3.2	2.2	1.3	0.7	0.3	0.0	0.4	0.4	0.3
82.5°	16.3	6.5	2.4	1.7	1.1	0.7	0.3	0.0	0.4	0.4	0.4
85°	6.5	3.0	2.2	1.7	1.3	0.7	0.3	0.0	0.4	0.4	0.4
87.5°	3.0	2.2	2.2	1.9	1.5	0.7	0.3	0.0	0.4	0.3	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)