

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: P652194

Luminaire Tested: **GALN-SA1B-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-840-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2945.2 lumens  
Efficiency: N/A  
Efficacy: 66.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

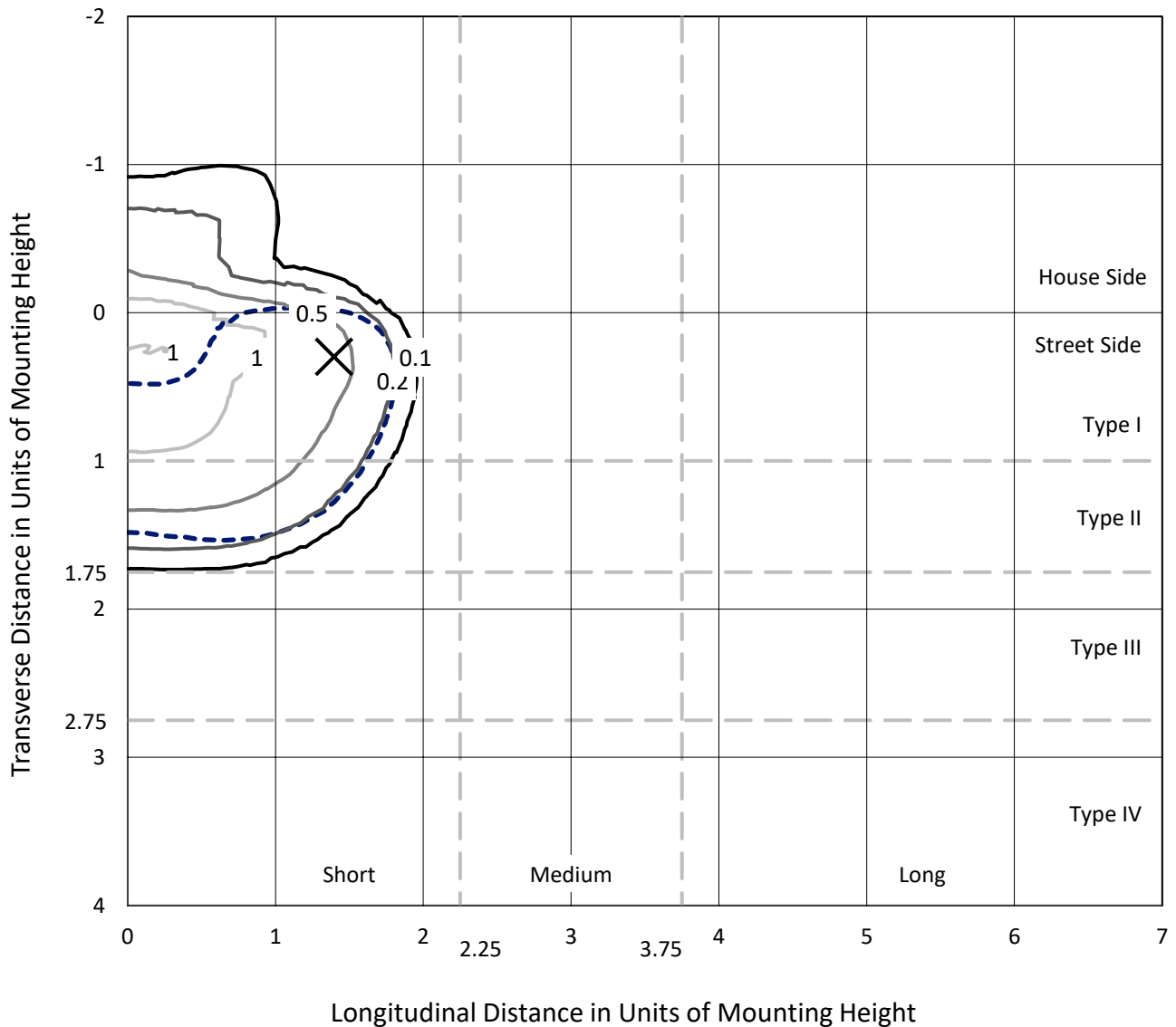
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P652194  
 CATALOG NUMBER: GALN-SA1B-840-U-T3R-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

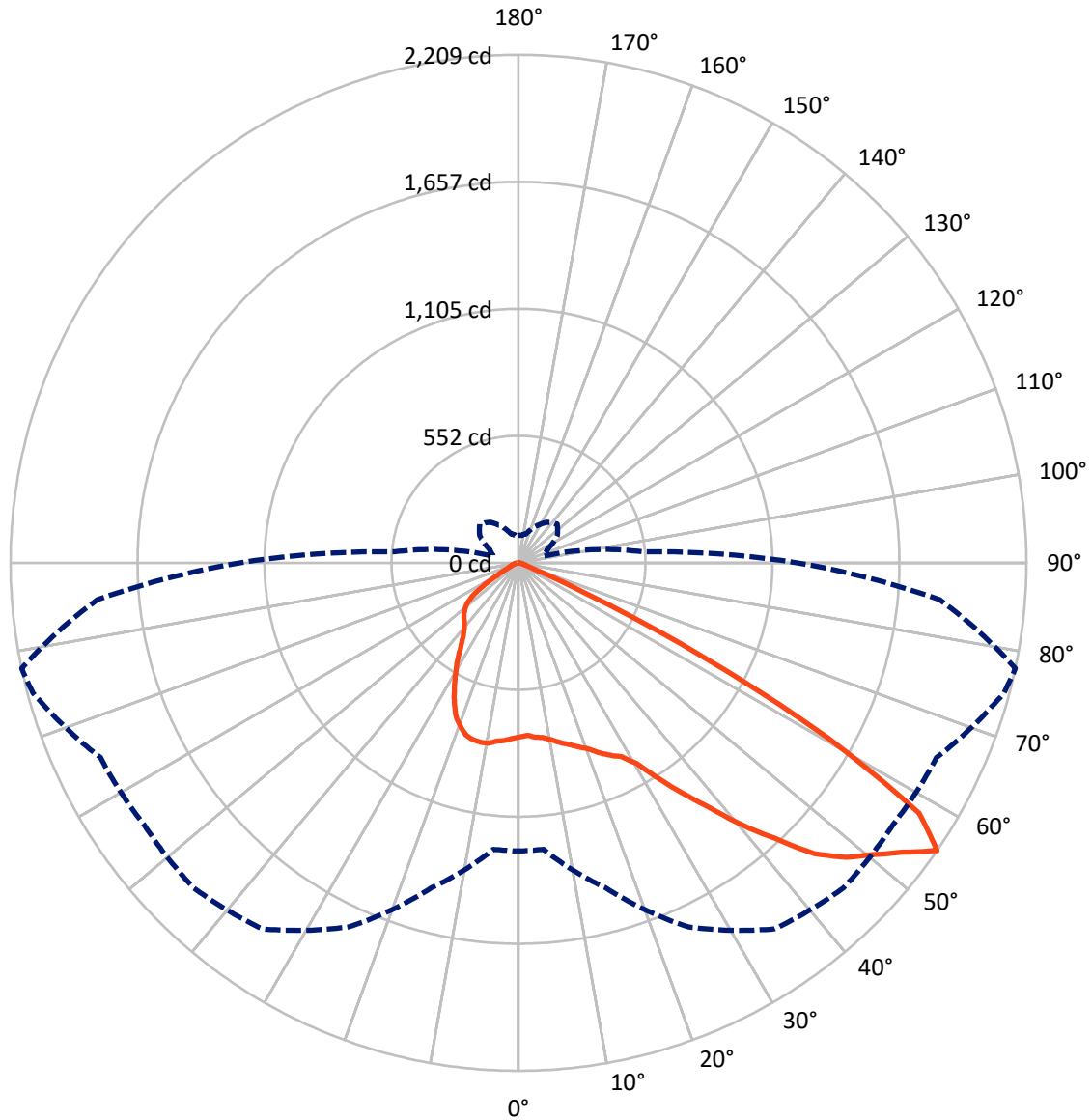
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P652194  
CATALOG NUMBER: GALN-SA1B-840-U-T3R-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P652194

CATALOG NUMBER: GALN-SA1B-840-U-T3R-GRSBK

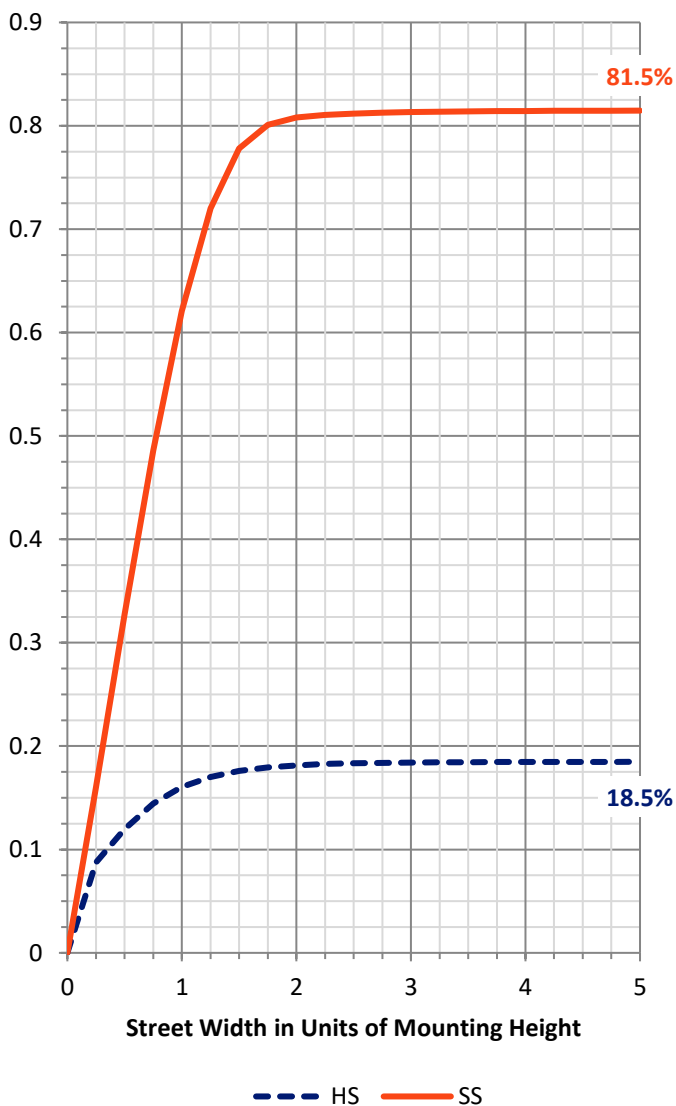
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	547.0	0.0	547.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	2398.2	0.0	2398.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	2945.2	0.0	2945.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.5	2.3
10°-20°	178.7	6.1
20°-30°	313.2	10.6
30°-40°	516.4	17.5
40°-50°	751.5	25.5
50°-60°	851.5	28.9
60°-70°	243.5	8.3
70°-80°	18.9	0.6
80°-90°	3.9	0.1
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°	2945.2	100.0
0°-180°	2945.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P652194

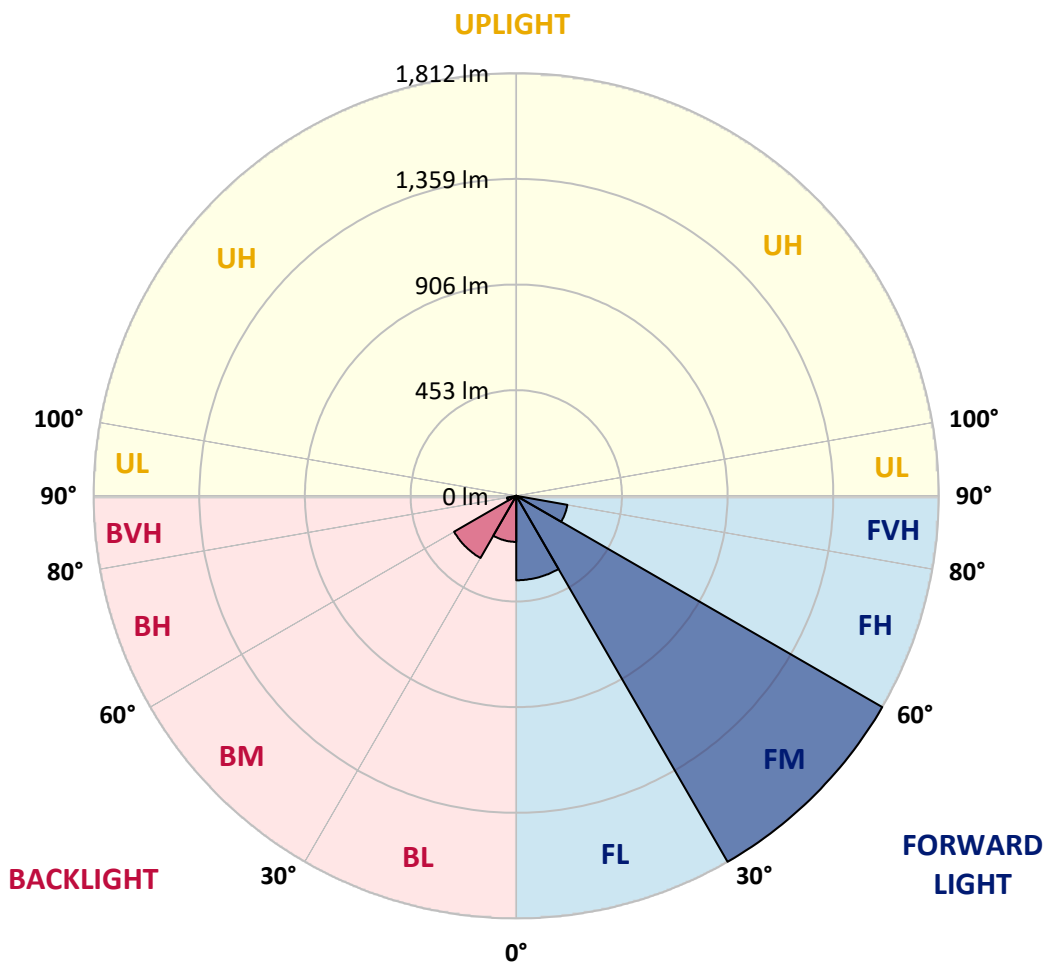
CATALOG NUMBER: GALN-SA1B-840-U-T3R-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	362.0	12.3			
FM (30°-60°)	1811.7	61.5			
FH (60°-80°)	222.4	7.6			G0/660
FVH (80°-90°)	1.9	0.1			G0/10
BL (0°-30°)	197.4	6.7	B1/500		
BM (30°-60°)	307.7	10.4	B1/1000		
BH (60°-80°)	39.9	1.4	B0/110		G0/110
BVH (80°-90°)	2.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type II Short





REPORT NUMBER: P652194

CATALOG NUMBER: GALN-SA1B-840-U-T3R-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2
2.5°	711.9	718.8	719.8	728.2	727.7	741.9	746.1	746.6	756.1	751.4	763.5
5°	691.9	688.2	686.7	701.4	705.6	718.2	728.8	735.1	754.5	761.4	774.1
7.5°	674.0	674.0	675.1	688.2	686.7	703.0	714.0	733.5	761.9	767.7	783.0
10°	656.7	650.3	658.3	671.9	683.5	690.9	714.0	732.4	765.6	782.5	803.6
12.5°	647.7	650.8	651.9	661.9	674.6	696.7	709.3	739.8	792.0	802.0	824.6
15°	704.0	697.7	682.5	673.5	684.0	694.6	726.1	757.2	805.7	819.9	845.1
17.5°	769.3	764.0	751.4	727.2	703.5	723.0	747.7	776.2	820.4	841.4	878.8
20°	854.6	846.2	833.6	786.2	765.6	744.5	770.9	804.6	844.6	863.5	902.1
22.5°	956.2	956.2	927.8	870.4	827.8	807.8	818.8	838.3	871.4	897.3	935.2
25°	1062.1	1058.9	1033.2	973.6	901.5	877.8	890.5	904.2	913.1	927.3	952.6
27.5°	1183.2	1164.8	1132.2	1066.3	1002.6	956.8	970.4	958.3	947.3	954.7	991.0
30°	1265.4	1277.0	1235.3	1172.2	1112.1	1061.0	1063.7	1053.1	1002.6	1013.2	1034.7
32.5°	1350.6	1358.0	1334.8	1300.1	1240.1	1180.6	1159.0	1150.1	1112.1	1116.8	1095.8
35°	1421.7	1435.9	1415.4	1400.2	1382.8	1334.8	1275.4	1304.3	1243.3	1231.6	1176.9
37.5°	1487.1	1482.9	1507.1	1491.3	1487.6	1453.8	1388.6	1394.4	1353.3	1350.6	1287.5
40°	1545.5	1546.5	1579.7	1587.1	1572.3	1512.3	1417.5	1463.3	1496.5	1499.7	1418.6
42.5°	1593.9	1608.2	1636.6	1696.0	1673.9	1573.9	1447.5	1497.6	1620.8	1640.3	1542.8
45°	1636.1	1665.0	1700.3	1753.5	1740.9	1661.3	1522.3	1568.1	1753.5	1804.5	1659.7
47.5°	1638.7	1676.6	1715.1	1794.0	1809.8	1708.2	1599.8	1679.7	1858.8	1914.1	1745.1
50°	1628.2	1648.2	1725.1	1810.8	1846.7	1784.5	1708.2	1773.5	1961.0	1995.7	1788.2
52.5°	1503.4	1518.6	1672.9	1826.7	1913.0	1870.9	1852.0	1904.1	2065.2	2091.0	1828.8
55°	1253.3	1250.6	1462.8	1747.2	1943.6	1998.9	1987.3	2005.7	2185.8	2209.0	1838.8
57.5°	857.2	905.2	1088.4	1454.9	1756.6	1968.9	1981.0	1950.4	2045.2	2054.1	1602.9
60°	462.3	482.3	629.7	971.0	1337.5	1604.5	1636.1	1580.7	1573.4	1548.1	1144.3
62.5°	183.8	193.8	277.5	480.8	728.8	975.2	1043.2	1020.5	972.0	905.7	592.4
65°	87.4	93.8	137.9	224.9	323.3	406.5	474.4	495.5	365.4	329.1	195.4
67.5°	59.5	64.3	100.6	128.5	115.3	120.6	156.9	145.8	85.9	73.2	54.2
70°	45.2	48.4	80.6	87.4	51.6	36.3	40.5	37.9	35.3	35.8	35.3
72.5°	32.1	34.7	59.0	51.6	22.6	16.8	21.6	25.8	25.8	25.8	25.3
75°	19.5	22.1	34.2	20.0	8.9	8.9	13.7	17.4	18.4	18.9	17.9
77.5°	10.0	12.6	11.6	5.8	5.8	6.8	10.0	12.1	13.2	13.2	12.6
80°	2.1	2.1	2.1	3.2	5.8	7.4	10.0	11.0	12.6	12.6	11.6
82.5°	0.0	0.5	1.6	3.2	5.3	6.8	9.5	11.0	12.6	13.2	12.1
85°	0.0	0.5	1.1	2.1	3.7	4.2	3.7	3.2	3.2	3.2	3.2
87.5°	0.0	0.0	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652194  
 CATALOG NUMBER: GALN-SA1B-840-U-T3R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2	757.2
2.5°	764.6	766.2	763.5	763.0	760.9	767.2	751.9	748.2	757.7	748.7	750.9
5°	774.6	778.3	773.6	765.6	754.0	736.1	720.9	700.9	691.4	684.6	683.5
7.5°	782.0	784.6	779.9	754.5	719.8	674.6	640.8	616.1	596.6	590.8	581.3
10°	812.0	812.5	788.8	733.0	665.1	605.5	554.0	516.0	496.5	484.4	479.2
12.5°	832.0	830.9	783.0	690.3	599.8	520.7	461.8	416.0	398.0	392.3	388.6
15°	857.2	851.4	769.3	646.6	515.5	430.2	377.0	345.4	343.9	340.2	343.9
17.5°	877.2	860.9	749.3	567.1	435.0	354.4	319.7	321.8	326.0	329.7	330.2
20°	909.9	876.2	703.5	497.6	360.2	303.9	303.3	312.8	323.3	327.5	331.8
22.5°	934.7	882.5	654.6	423.4	299.1	283.3	292.2	306.5	314.4	318.6	324.9
25°	943.6	865.1	589.2	349.1	269.6	273.8	287.5	297.0	307.0	311.8	309.1
27.5°	952.6	856.2	511.3	287.5	253.8	267.5	279.0	288.5	291.7	298.1	302.3
30°	974.1	825.1	441.3	248.5	245.9	263.3	271.7	274.8	283.3	286.9	286.9
32.5°	991.5	813.0	367.0	230.1	244.8	265.4	266.4	266.4	267.5	264.8	263.8
35°	1027.4	771.4	300.7	219.1	244.3	265.9	268.5	259.6	235.4	225.9	223.3
37.5°	1071.6	744.5	251.7	216.4	248.0	272.2	276.4	242.7	211.2	195.9	193.3
40°	1125.3	725.6	219.6	215.4	256.4	286.9	274.3	229.6	188.6	166.4	165.3
42.5°	1187.9	708.2	198.0	214.9	266.9	302.3	272.2	218.5	165.3	150.6	152.7
45°	1238.0	698.8	183.3	211.2	270.6	311.2	273.8	199.1	155.8	146.4	147.4
47.5°	1277.0	678.8	171.1	204.9	270.1	314.4	259.6	191.2	151.1	153.7	156.4
50°	1278.0	651.9	155.8	191.2	262.2	308.6	243.3	183.8	150.0	161.1	166.4
52.5°	1263.8	614.0	139.5	171.6	243.8	288.5	228.5	180.6	145.3	144.3	150.6
55°	1213.2	542.9	112.2	139.0	205.9	238.0	215.4	174.8	131.1	119.0	120.1
57.5°	980.4	389.1	82.7	99.5	145.8	174.3	194.3	172.2	118.0	101.1	101.6
60°	607.1	220.6	60.6	68.0	90.1	105.9	157.4	160.0	105.3	85.3	84.3
62.5°	311.8	109.0	46.8	47.9	55.3	62.1	108.0	134.3	95.3	81.1	81.1
65°	104.3	53.7	41.0	36.8	36.8	38.4	65.3	93.2	80.6	68.0	68.0
67.5°	44.7	40.0	35.8	32.1	29.5	27.9	36.8	54.2	60.0	51.6	49.5
70°	34.7	33.7	31.0	26.8	23.1	21.0	21.6	27.9	34.2	33.1	32.1
72.5°	25.8	25.8	24.7	21.0	17.9	15.3	14.2	14.7	16.3	16.8	17.4
75°	17.9	18.4	18.4	16.3	13.2	11.0	9.5	7.9	6.3	5.3	4.7
77.5°	12.1	12.6	13.7	12.1	10.0	7.4	5.8	4.2	2.6	1.1	1.1
80°	10.5	12.1	13.2	12.1	10.5	7.9	5.8	3.2	1.6	0.0	0.0
82.5°	11.0	12.1	13.7	11.6	10.0	7.4	5.8	3.7	1.6	0.5	0.0
85°	2.6	2.6	3.2	3.7	4.7	5.3	4.2	2.6	1.6	0.5	0.0
87.5°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	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)