

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: P651688

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651688  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-840-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH  
BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2295.9 lumens  
Efficiency: N/A  
Efficacy: 69.6 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

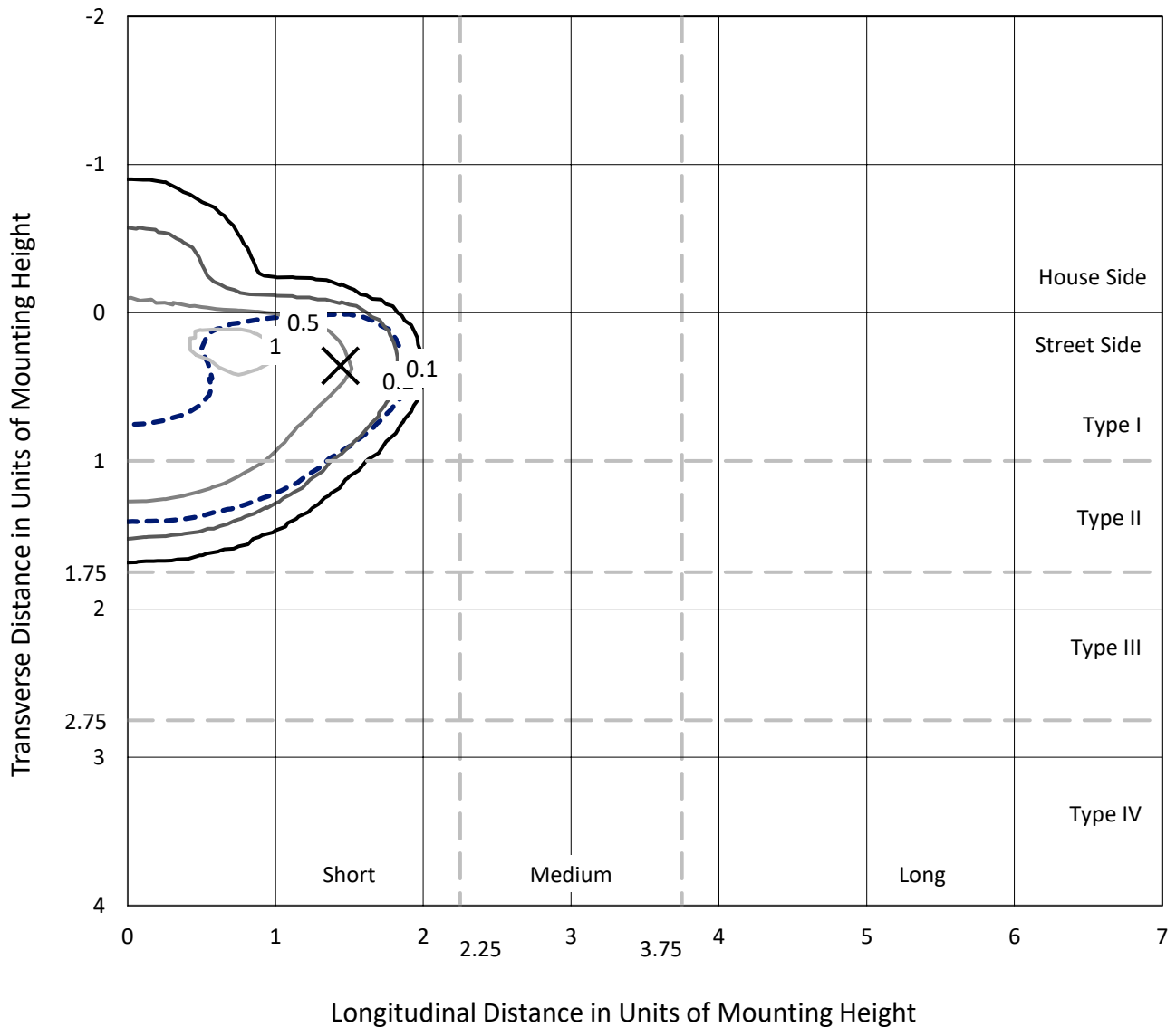
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651688  
 CATALOG NUMBER: GALN-SA1A-840-U-T2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

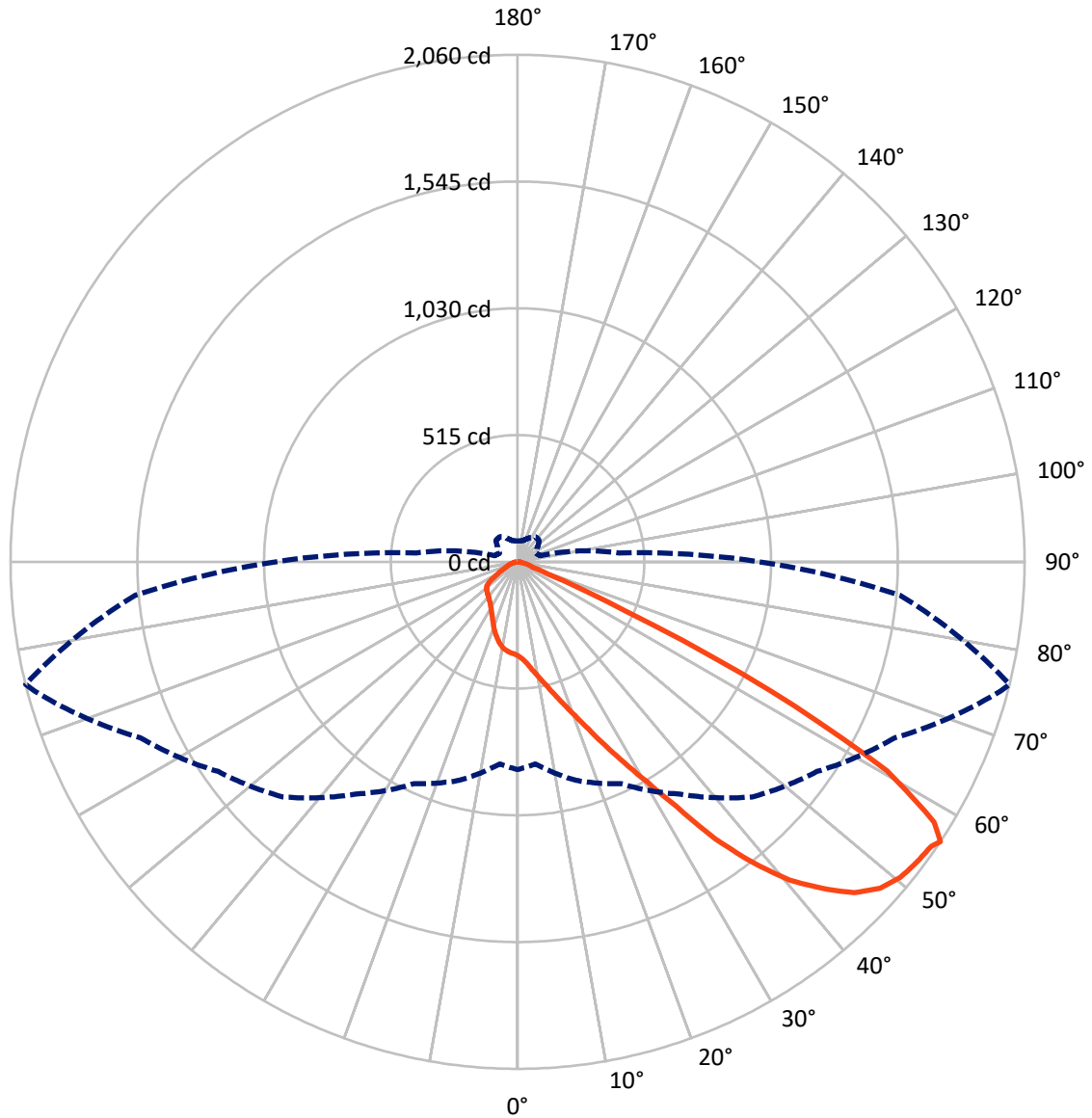
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P651688  
CATALOG NUMBER: GALN-SA1A-840-U-T2-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P651688  
 CATALOG NUMBER: GALN-SA1A-840-U-T2-GRSBK

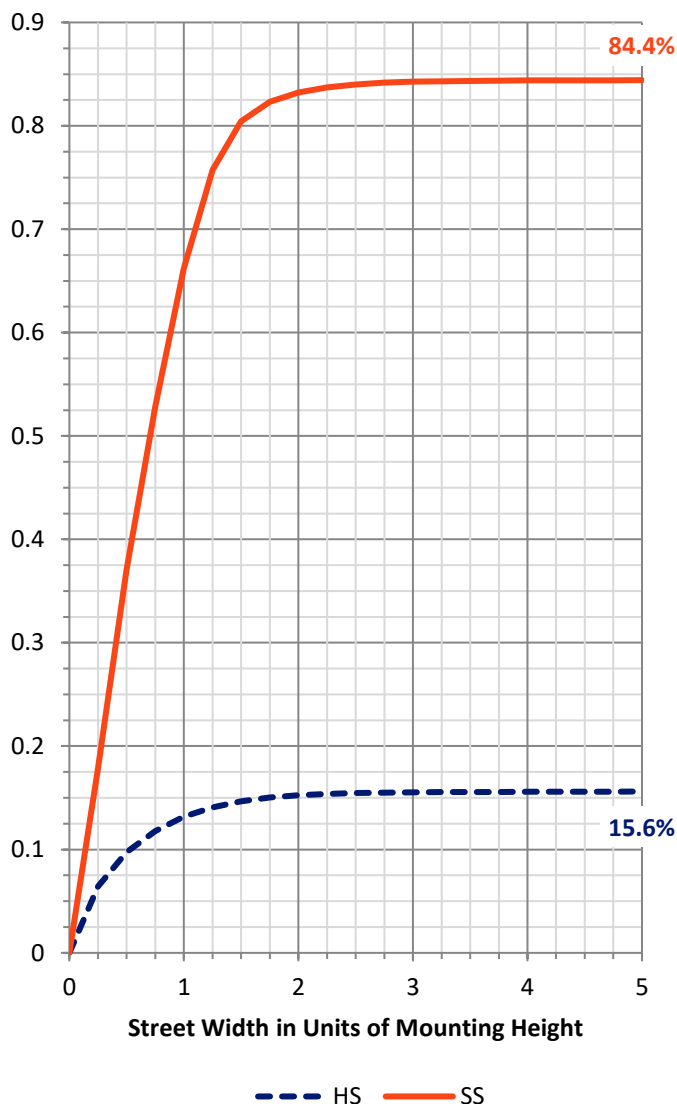
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	360.7	0.0	360.7
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	1935.3	0.0	1935.3
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	2295.9	0.0	2295.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.5	1.7
10°-20°	123.7	5.4
20°-30°	224.3	9.8
30°-40°	386.8	16.8
40°-50°	628.3	27.4
50°-60°	662.2	28.8
60°-70°	202.3	8.8
70°-80°	25.9	1.1
80°-90°	3.9	0.2
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°	2295.9	100.0
0°-180°	2295.9	100.0

**Coefficient of Utilization**

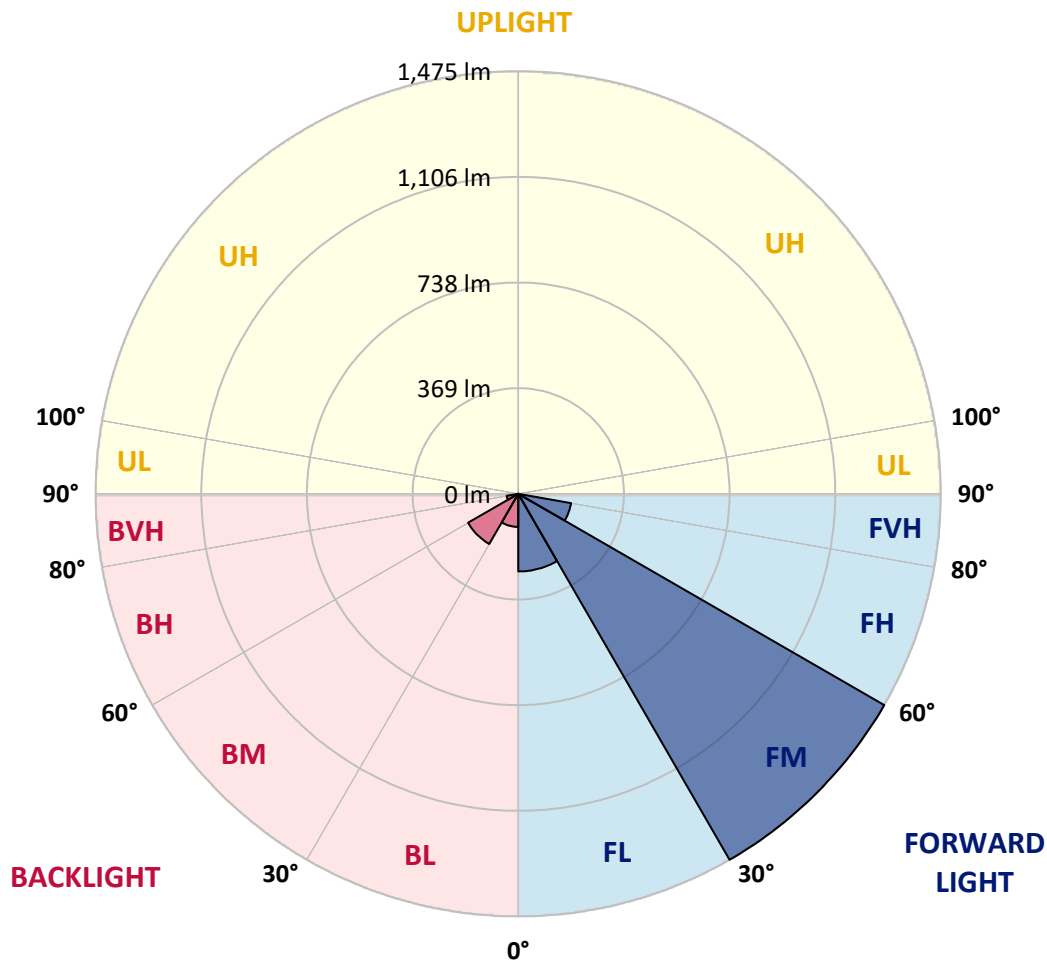


REPORT NUMBER: P651688  
 CATALOG NUMBER: GALN-SA1A-840-U-T2-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.1	11.8			
FM (30°-60°)	1475.1	64.3			
FH (60°-80°)	187.1	8.2			G0/660
FVH (80°-90°)	1.9	0.1			G0/10
BL (0°-30°)	115.4	5.0	B1/500		
BM (30°-60°)	202.1	8.8	B0/220		
BH (60°-80°)	41.1	1.8	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: P651688

CATALOG NUMBER: GALN-SA1A-840-U-T2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	382.2	382.2	382.2	382.2	382.2	382.2	382.2	382.2	382.2	382.2	382.2
2.5°	440.2	430.0	430.4	429.6	428.3	423.6	409.7	407.5	398.2	395.7	387.3
5°	493.1	484.2	489.2	481.6	474.4	470.2	447.3	436.7	421.9	416.5	404.6
7.5°	526.0	521.8	520.2	520.6	513.8	503.2	493.1	469.8	449.9	445.6	420.7
10°	542.1	539.6	542.1	540.8	543.8	545.1	527.3	513.3	484.2	476.9	438.0
12.5°	546.0	551.0	553.1	558.7	565.8	578.1	576.8	557.8	518.9	514.2	464.7
15°	555.2	559.5	557.3	566.2	579.8	600.6	611.6	608.5	566.7	558.3	495.6
17.5°	563.7	556.1	563.3	581.0	594.6	626.4	653.0	665.3	618.7	609.0	523.9
20°	575.2	573.1	571.8	580.6	604.8	647.1	700.0	722.4	677.2	667.0	564.6
22.5°	609.8	610.3	609.4	596.3	613.7	661.4	741.0	796.5	747.0	738.5	610.7
25°	655.6	650.1	645.8	635.2	633.1	674.6	782.6	887.1	830.7	824.9	660.6
27.5°	703.8	703.8	691.1	681.4	667.8	707.2	820.6	975.1	931.9	923.8	704.3
30°	756.3	759.3	757.6	736.8	728.4	742.8	859.6	1087.7	1047.9	1037.7	776.2
32.5°	833.8	827.4	834.6	817.2	792.2	804.9	920.9	1188.4	1198.5	1184.1	870.5
35°	936.1	932.3	927.7	899.4	869.7	879.9	1007.7	1312.4	1387.7	1380.5	965.8
37.5°	1028.0	1025.9	1022.1	1002.6	968.3	980.6	1106.3	1441.5	1572.2	1548.5	1100.4
40°	1124.5	1135.9	1123.7	1106.3	1075.0	1102.0	1222.2	1518.1	1727.6	1698.7	1203.2
42.5°	1255.3	1246.4	1251.8	1220.1	1203.2	1232.8	1338.6	1594.7	1848.2	1813.9	1312.4
45°	1394.5	1394.9	1380.1	1369.9	1325.9	1358.1	1410.1	1637.0	1944.2	1917.6	1394.9
47.5°	1483.8	1483.4	1499.4	1515.6	1470.2	1438.5	1458.8	1677.2	1993.8	1981.5	1425.0
50°	1469.8	1474.0	1494.8	1554.9	1578.6	1535.8	1504.5	1665.3	2016.2	2015.0	1450.8
52.5°	1278.5	1292.5	1327.2	1414.0	1533.3	1586.2	1552.3	1687.4	2027.2	2029.3	1489.3
55°	973.4	981.0	1047.0	1152.4	1284.5	1465.6	1533.3	1704.7	2035.6	2039.4	1535.8
56°	844.3	824.0	919.2	994.1	1152.0	1350.1	1485.0	1691.2	2030.6	2059.8	1559.1
57.5°	637.4	623.9	700.8	794.4	946.3	1155.4	1335.3	1627.3	1996.3	1995.9	1525.7
60°	387.7	374.2	433.4	488.4	573.5	711.4	902.3	1295.9	1687.8	1723.3	1235.3
62.5°	230.7	239.1	297.5	330.9	358.4	372.8	466.8	770.3	1126.2	1151.6	766.4
65°	153.7	156.6	200.6	255.6	267.9	213.3	190.0	311.9	488.4	472.7	316.1
67.5°	94.8	101.6	134.6	192.2	212.9	155.8	90.2	116.4	134.6	134.6	91.4
70°	57.5	61.0	89.7	130.8	146.0	100.3	65.6	65.6	64.8	63.5	54.6
72.5°	27.5	29.6	45.7	67.3	68.5	52.9	50.8	55.4	54.2	53.7	45.2
75°	11.9	12.7	16.1	21.2	24.1	22.5	30.9	39.8	41.0	39.8	32.5
77.5°	3.8	4.2	5.9	7.7	8.1	9.8	13.1	16.5	19.0	17.7	16.1
80°	0.4	0.8	1.7	3.8	5.9	7.7	9.8	11.0	12.3	12.3	11.4
82.5°	0.4	0.4	1.7	3.4	5.5	7.2	9.3	10.6	12.3	12.7	11.9
85°	0.0	0.4	1.3	2.9	4.6	4.6	4.2	4.2	2.9	2.9	2.9
87.5°	0.0	0.0	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8
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: P651688

CATALOG NUMBER: GALN-SA1A-840-U-T2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	382.2	382.2	382.2	382.2	382.2	382.2	382.2	382.2	382.2	382.2	382.2
2.5°	385.5	384.7	373.2	366.1	362.3	354.6	350.0	346.6	344.1	341.1	341.5
5°	390.6	387.7	368.6	355.5	339.8	331.4	324.2	318.2	314.4	313.6	311.9
7.5°	405.0	389.4	360.5	336.9	317.0	308.6	302.2	298.4	300.1	296.3	299.2
10°	416.0	392.7	350.9	316.6	296.7	290.3	286.9	289.9	294.1	292.4	290.3
12.5°	429.6	396.1	335.2	297.1	278.5	273.8	279.7	285.3	293.7	297.1	292.8
15°	444.8	399.9	315.3	274.7	262.8	266.6	276.8	286.5	294.9	299.2	301.8
17.5°	463.4	398.6	295.9	256.9	248.0	259.0	271.3	280.1	292.8	299.2	297.5
20°	480.8	394.4	274.3	239.1	239.5	249.7	259.9	274.3	281.0	289.5	286.5
22.5°	497.3	386.8	251.8	226.8	226.8	242.5	247.6	256.9	262.8	267.0	266.6
25°	520.6	372.4	233.2	215.0	220.1	230.3	234.5	237.4	234.9	238.3	238.7
27.5°	537.1	357.6	218.0	204.4	213.7	221.4	220.1	218.4	212.4	207.8	210.8
30°	554.8	340.3	204.9	197.2	202.3	209.1	204.0	198.9	189.6	182.0	182.4
32.5°	580.2	332.2	193.4	188.7	195.5	196.4	190.9	183.3	173.9	166.8	166.3
35°	627.6	327.1	183.7	183.3	184.5	184.9	179.5	170.1	166.3	160.4	162.5
37.5°	675.0	324.6	176.9	175.2	174.8	175.2	168.9	160.0	167.2	166.8	167.6
40°	735.5	336.1	167.2	165.1	165.5	165.5	157.4	154.9	167.6	168.9	169.3
42.5°	796.9	350.4	160.8	154.1	155.8	155.8	151.5	148.5	157.4	148.9	147.7
45°	850.3	371.6	154.1	143.1	147.3	149.4	148.1	143.1	137.5	123.1	123.1
47.5°	867.6	390.2	146.0	132.5	135.8	145.2	141.4	130.8	121.0	109.2	108.3
50°	898.0	410.5	139.7	120.2	127.4	138.8	135.0	124.4	113.5	105.0	105.4
52.5°	929.4	433.8	127.8	105.8	114.7	133.7	133.7	121.9	105.0	99.1	98.1
55°	976.3	432.9	106.6	86.8	102.4	126.2	128.3	109.2	93.9	89.3	89.3
56°	983.1	413.5	96.0	81.2	96.9	124.0	124.4	105.8	89.7	84.6	84.6
57.5°	932.3	373.2	84.2	74.5	90.2	120.2	120.6	102.9	86.4	79.1	78.3
60°	717.4	252.6	70.2	66.4	81.7	108.3	110.4	93.5	75.8	70.2	69.8
62.5°	405.0	140.1	61.8	60.1	70.2	92.3	98.6	81.7	64.3	61.4	62.2
65°	184.9	77.0	52.1	48.7	56.7	71.1	79.6	67.3	52.9	49.5	49.5
67.5°	67.7	52.5	44.4	38.5	39.8	46.2	51.6	43.6	35.2	30.0	31.3
70°	48.3	44.0	38.9	33.5	30.9	30.0	29.6	24.6	17.3	13.5	14.4
72.5°	38.9	36.4	32.5	28.3	24.1	20.4	17.3	12.7	8.1	5.5	5.0
75°	27.9	26.7	23.7	20.4	16.9	14.4	11.9	8.1	4.2	2.1	2.1
77.5°	14.4	14.4	14.0	12.7	10.6	8.5	6.8	4.6	2.5	0.8	0.8
80°	11.0	11.9	12.3	11.0	9.8	7.7	5.5	3.4	1.7	0.4	0.4
82.5°	10.6	12.3	13.1	11.4	9.8	7.2	5.5	3.4	1.7	0.4	0.4
85°	2.5	2.5	3.8	4.2	5.5	5.9	4.6	2.9	1.3	0.4	0.4
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	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)