

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: P450245

Luminaire Tested: **GALN-SA1A-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4205 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): 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

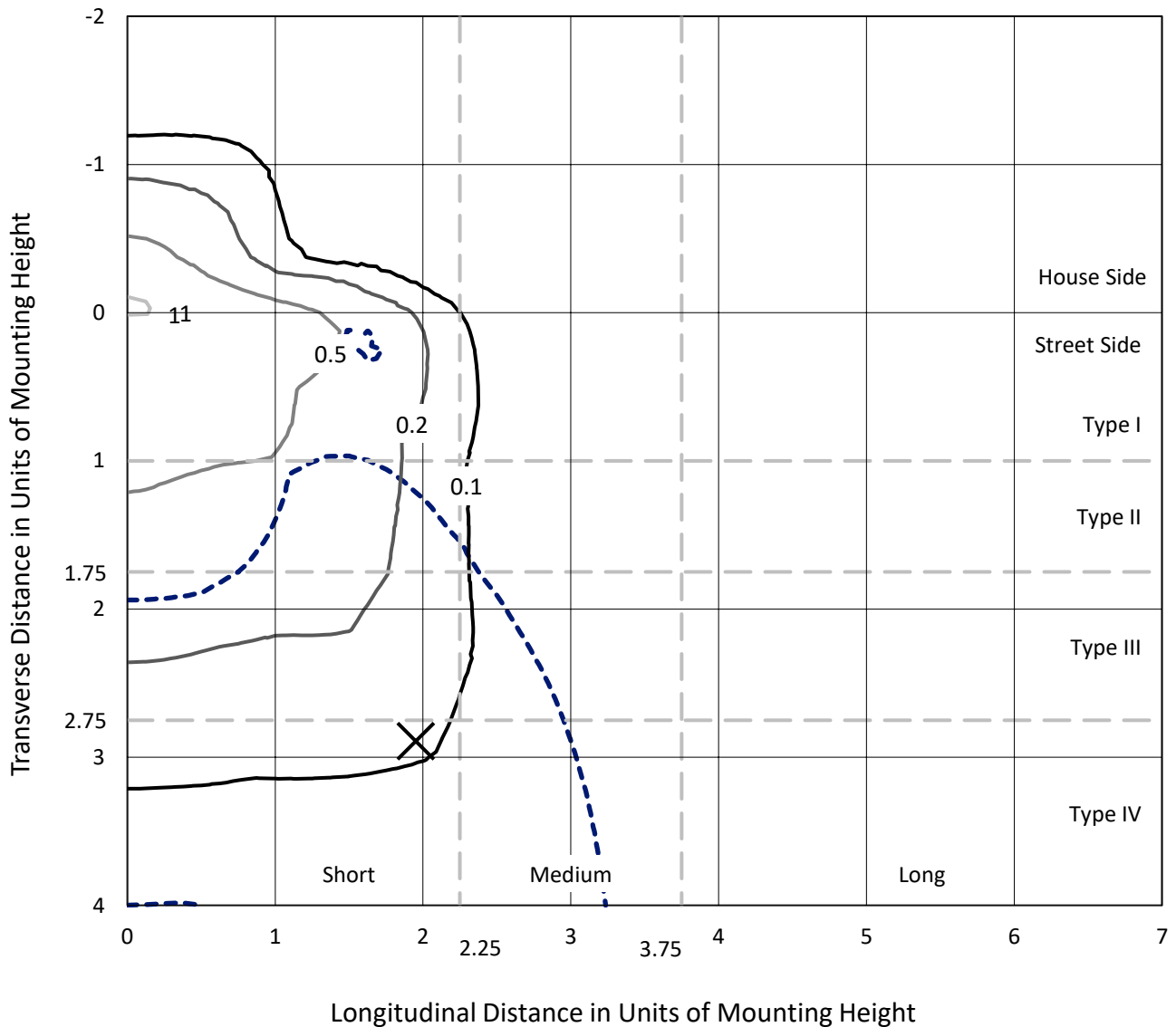




REPORT NUMBER: P450245
 CATALOG NUMBER: GALN-SA1A-730-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

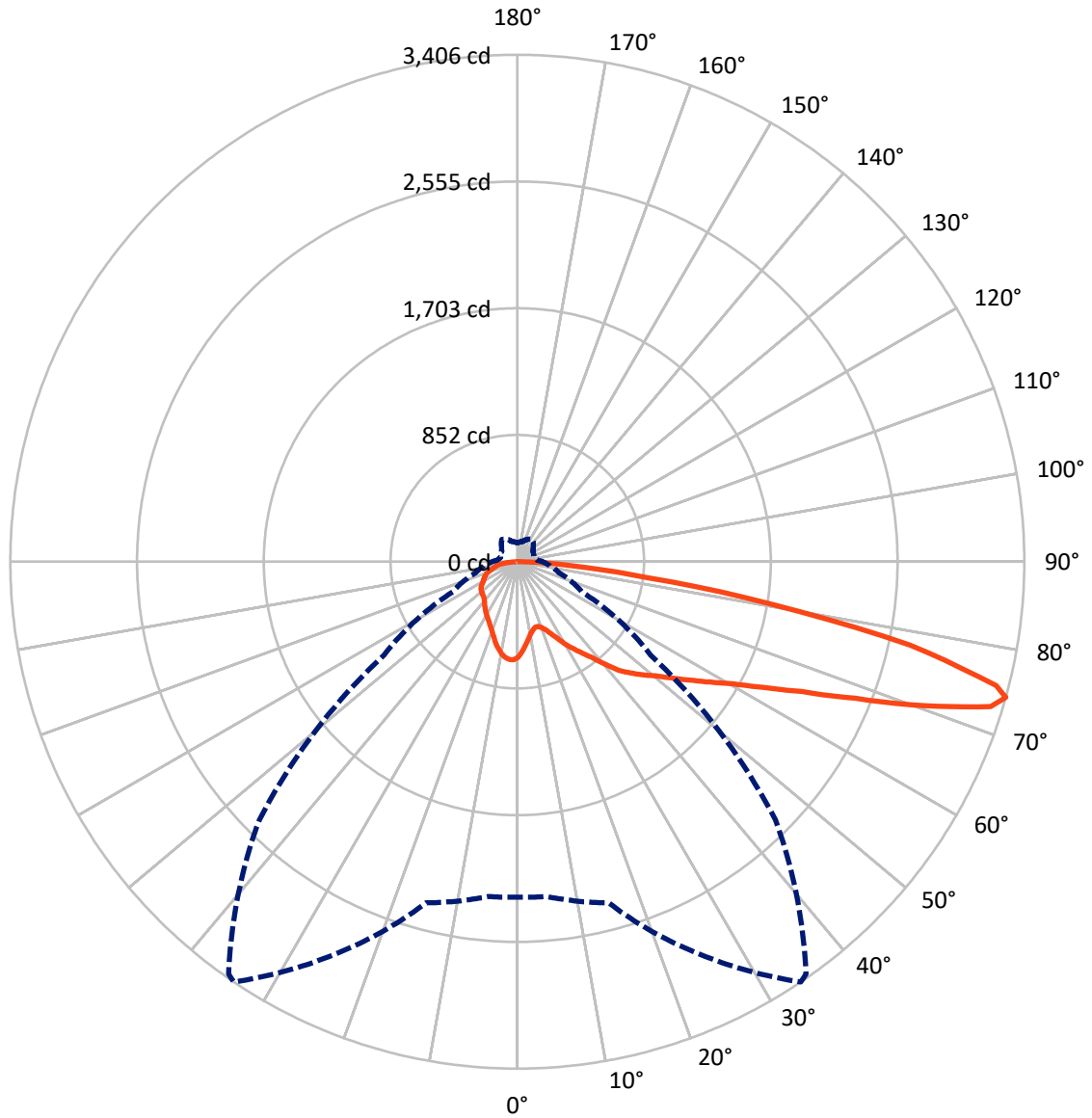
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

REPORT NUMBER: P450245
CATALOG NUMBER: GALN-SA1A-730-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P450245
 CATALOG NUMBER: GALN-SA1A-730-U-T4FT

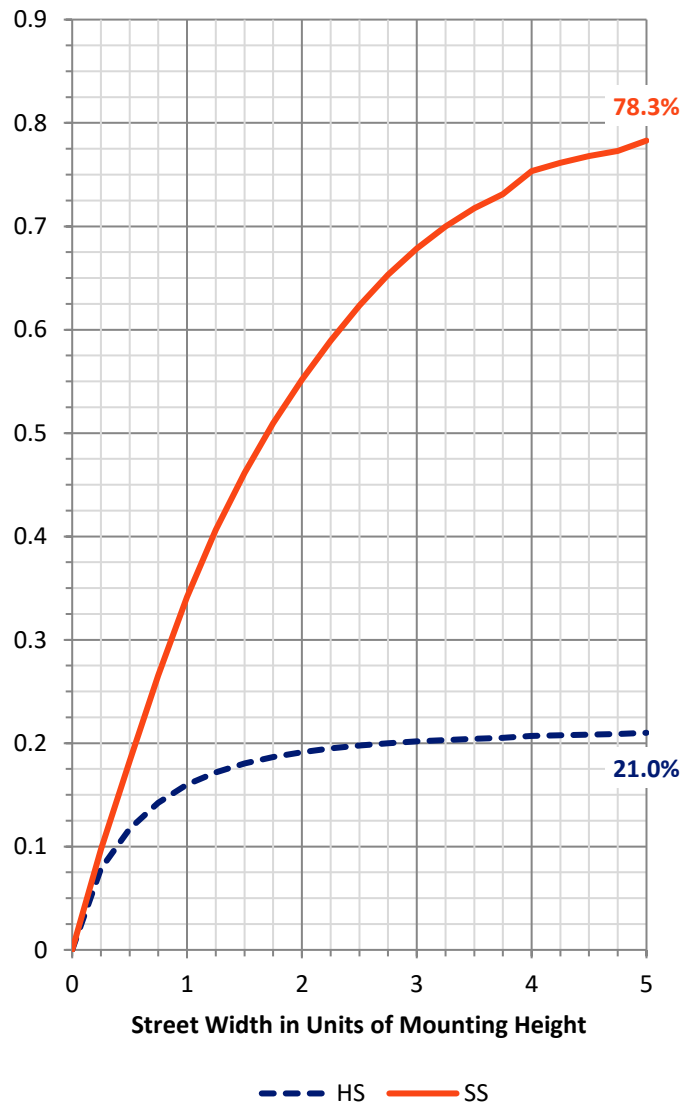
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	894.9	0.0	894.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	3310.1	0.0	3310.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	4205.0	0.0	4205.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.4
10°-20°	159.8	3.8
20°-30°	263.5	6.3
30°-40°	394.7	9.4
40°-50°	573.8	13.6
50°-60°	801.5	19.1
60°-70°	1003.5	23.9
70°-80°	829.8	19.7
80°-90°	119.9	2.9
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°	4205.0	100.0
0°-180°	4205.0	100.0



REPORT NUMBER: P450245

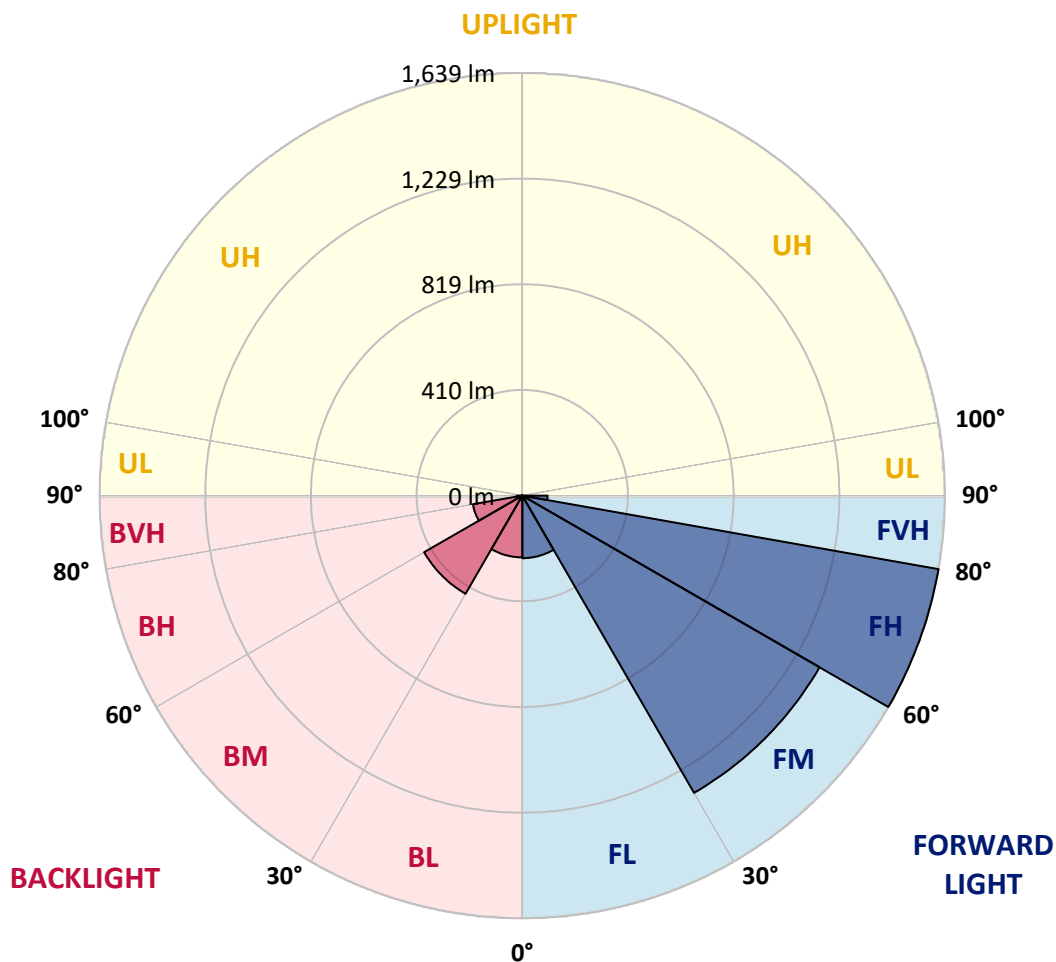
CATALOG NUMBER: GALN-SA1A-730-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	242.4	5.8			
FM (30°-60°)	1330.6	31.6			
FH (60°-80°)	1638.9	39.0			G1/1800
FVH (80°-90°)	98.2	2.3			G1/100
BL (0°-30°)	239.4	5.7	B1/500		
BM (30°-60°)	439.5	10.5	B1/1000		
BH (60°-80°)	194.4	4.6	B1/500		G1/500
BVH (80°-90°)	21.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





REPORT NUMBER: P450245
 CATALOG NUMBER: GALN-SA1A-730-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
2.5°	593.3	596.4	598.0	603.8	605.2	607.1	612.0	618.5	626.9	634.3	640.9
5°	543.9	548.6	551.4	556.5	566.5	567.5	580.5	595.4	612.4	628.3	641.3
7.5°	497.1	502.2	504.6	513.9	527.2	529.3	548.4	571.9	600.3	624.3	644.3
10°	461.9	464.5	469.6	476.6	492.5	493.9	518.8	550.2	587.0	622.5	649.5
12.5°	442.8	444.2	445.4	452.9	468.5	470.6	496.7	532.3	576.6	623.8	657.9
15°	445.6	446.1	441.0	442.4	455.0	458.0	483.8	520.4	570.0	627.3	670.4
17.5°	469.2	467.5	455.0	448.4	457.3	458.7	481.3	515.8	567.0	633.9	683.5
20°	506.2	503.9	482.2	467.8	472.9	474.1	489.7	519.3	570.0	644.6	703.8
22.5°	552.3	551.4	518.6	501.1	500.9	500.9	509.0	531.8	579.1	659.3	725.0
25°	616.9	612.0	569.1	546.5	540.2	539.8	538.8	552.6	590.8	674.9	750.1
27.5°	683.0	674.6	636.4	601.7	588.2	586.6	580.5	581.9	605.7	692.6	778.8
30°	742.4	737.1	701.2	662.8	646.7	643.0	626.2	618.5	630.6	724.5	824.4
32.5°	787.8	784.6	756.6	721.7	697.9	697.2	672.8	666.5	669.5	763.2	876.6
35°	824.7	825.8	811.6	781.3	754.1	750.1	733.8	725.9	717.0	819.1	942.3
37.5°	875.0	877.5	876.6	850.5	817.2	818.1	814.4	801.4	777.8	881.5	1015.2
40°	930.4	932.3	932.0	922.0	904.6	905.5	904.1	889.2	854.0	960.9	1096.3
42.5°	1007.1	998.2	975.1	985.2	995.4	999.8	1009.4	995.2	947.0	1045.7	1172.5
45°	1092.8	1076.0	1023.8	1028.5	1066.5	1074.8	1127.5	1107.9	1047.8	1143.1	1262.1
47.5°	1146.8	1130.3	1086.3	1085.3	1135.6	1143.8	1237.0	1229.8	1139.6	1248.2	1371.6
50°	1195.1	1192.7	1143.1	1155.0	1204.1	1216.3	1356.3	1349.5	1231.2	1372.1	1490.9
52.5°	1266.6	1247.7	1208.1	1232.6	1297.6	1313.4	1474.6	1454.8	1315.3	1481.6	1606.7
55°	1298.7	1294.3	1292.0	1313.2	1402.4	1413.8	1589.7	1544.2	1387.0	1574.3	1694.7
57.5°	1384.7	1376.5	1399.6	1414.0	1525.8	1543.3	1709.9	1637.7	1449.9	1647.9	1737.6
60°	1496.0	1491.6	1512.8	1538.9	1663.8	1690.3	1846.9	1717.3	1500.5	1685.0	1714.1
62.5°	1662.4	1661.9	1657.9	1713.8	1859.2	1883.7	2004.1	1794.9	1508.4	1657.2	1592.5
65°	1900.9	1892.5	1858.0	1919.1	2102.4	2131.1	2167.9	1838.2	1460.6	1514.9	1340.9
67.5°	2150.4	2149.9	2122.0	2201.2	2451.6	2481.2	2372.6	1828.7	1328.1	1227.2	952.3
70°	2357.3	2347.2	2382.9	2593.9	2897.7	2932.0	2551.8	1716.2	1057.8	810.4	565.8
72.5°	2406.9	2407.3	2481.4	2896.8	3326.1	3331.5	2616.3	1391.0	707.9	447.0	283.0
74°	2254.1	2258.0	2372.9	2911.9	3406.0	3381.8	2451.4	1093.3	478.7	291.9	204.1
75°	2057.4	2032.5	2198.6	2811.1	3323.1	3297.0	2258.3	877.3	365.3	233.2	178.7
77.5°	1100.0	1125.4	1381.6	2097.7	2699.7	2669.6	1531.2	420.7	197.3	162.4	128.6
80°	391.6	431.9	607.1	1097.7	1730.8	1740.2	730.8	192.9	138.8	119.7	90.9
82.5°	159.8	164.2	260.7	487.1	878.9	887.3	298.4	114.6	99.2	82.5	54.3
85°	62.4	64.3	115.3	219.0	375.1	399.5	103.2	60.6	61.0	47.3	27.7
87.5°	21.0	23.8	47.3	72.9	127.4	124.9	30.1	17.9	21.9	20.5	8.6
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: P450245
 CATALOG NUMBER: GALN-SA1A-730-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
2.5°	644.1	648.5	651.6	654.8	657.9	658.8	658.1	660.2	660.4	660.7	660.9
5°	647.8	653.9	659.7	663.0	664.4	663.2	659.3	657.2	655.3	653.9	654.4
7.5°	653.0	661.6	666.9	668.3	664.6	659.3	649.5	641.8	636.9	633.6	633.4
10°	660.9	669.3	673.7	669.7	659.5	646.4	631.1	616.6	605.7	602.4	602.2
12.5°	670.9	680.5	680.2	668.6	650.6	627.3	602.4	585.6	570.7	563.3	566.3
15°	684.0	691.2	684.4	663.5	635.0	603.1	572.4	549.5	532.8	524.8	525.3
17.5°	699.1	705.4	687.4	654.4	613.1	572.1	536.5	514.8	501.5	495.7	495.3
20°	718.0	719.8	687.4	638.5	584.9	536.0	502.0	486.9	479.4	476.4	477.3
22.5°	738.2	734.5	683.7	616.2	547.9	498.3	475.5	468.7	465.0	464.5	465.0
25°	761.1	750.6	676.0	585.9	509.2	465.7	452.4	453.6	454.3	454.3	455.9
27.5°	789.0	768.0	663.2	547.7	464.0	435.4	431.7	439.8	443.5	444.2	445.4
30°	825.8	787.2	642.0	499.9	425.6	408.1	414.7	425.6	429.8	432.4	431.9
32.5°	869.6	808.1	613.4	452.2	394.6	389.0	397.0	408.1	412.8	414.2	412.3
35°	921.1	831.9	575.6	407.4	367.6	370.9	380.2	383.7	387.9	387.9	388.8
37.5°	976.5	851.0	529.5	366.4	346.6	358.5	365.3	362.0	360.1	357.8	359.0
40°	1032.9	865.2	469.6	325.9	325.7	345.7	347.6	338.2	330.8	328.5	327.3
42.5°	1082.1	874.0	415.6	294.5	305.9	333.1	334.5	319.6	307.7	300.7	298.4
45°	1140.1	884.3	362.7	268.4	287.5	323.1	326.6	306.6	289.1	274.4	270.7
47.5°	1219.5	907.6	321.0	248.1	274.2	316.8	321.7	295.9	272.8	253.7	250.7
50°	1309.2	939.5	288.6	234.4	263.9	311.2	317.3	284.9	257.6	236.4	234.1
52.5°	1391.4	956.7	260.7	222.0	253.9	301.0	311.5	277.0	242.7	219.2	217.1
55°	1436.4	928.8	233.2	209.9	240.2	287.7	303.3	266.0	228.3	210.1	207.1
57.5°	1442.4	871.0	208.3	196.8	225.7	271.4	288.2	252.8	219.0	203.8	201.3
60°	1395.6	784.8	188.9	186.1	211.1	253.0	271.2	241.1	209.4	196.8	194.3
62.5°	1279.1	691.2	175.4	176.3	196.1	233.7	258.6	229.9	200.3	189.2	186.8
65°	1078.8	570.5	162.4	166.3	182.9	218.5	247.2	220.6	191.3	183.3	181.2
67.5°	749.4	411.9	151.7	155.8	170.3	203.1	233.9	210.6	181.0	176.8	173.6
70°	414.9	253.5	139.1	144.0	157.2	185.9	219.0	195.4	166.1	164.2	159.6
72.5°	218.0	161.4	124.9	130.2	139.5	163.8	196.1	178.9	151.4	143.5	137.4
74°	170.3	132.3	115.3	120.9	127.2	150.7	182.6	167.0	140.9	131.6	127.0
75°	148.4	117.9	107.2	114.4	120.0	141.9	172.2	158.6	135.1	126.3	122.1
77.5°	104.8	88.3	87.6	96.2	99.2	124.4	155.1	144.4	120.4	111.1	107.2
80°	73.6	66.2	69.4	74.8	79.0	110.0	144.0	124.9	98.8	87.8	86.4
82.5°	48.0	43.3	49.6	54.5	55.9	81.1	116.2	94.8	72.0	58.5	54.3
85°	22.1	21.7	28.4	27.7	27.5	39.6	69.0	55.4	41.5	31.0	29.1
87.5°	5.6	5.4	7.0	5.8	7.0	6.1	6.3	1.6	0.2	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)