

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: P648213

Luminaire Tested: **GALN-SA1B-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4413 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

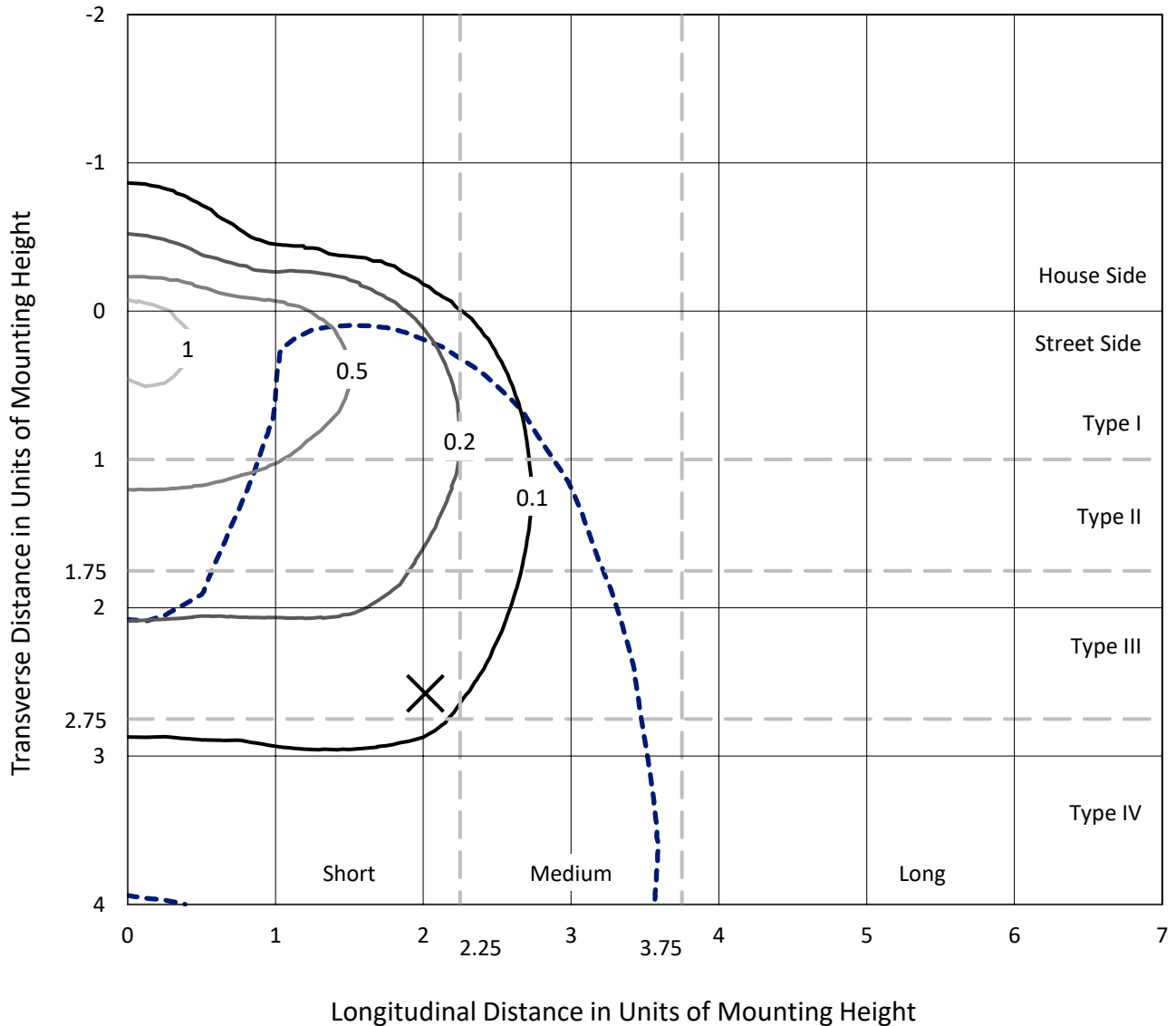
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648213
 CATALOG NUMBER: GALN-SA1B-835-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

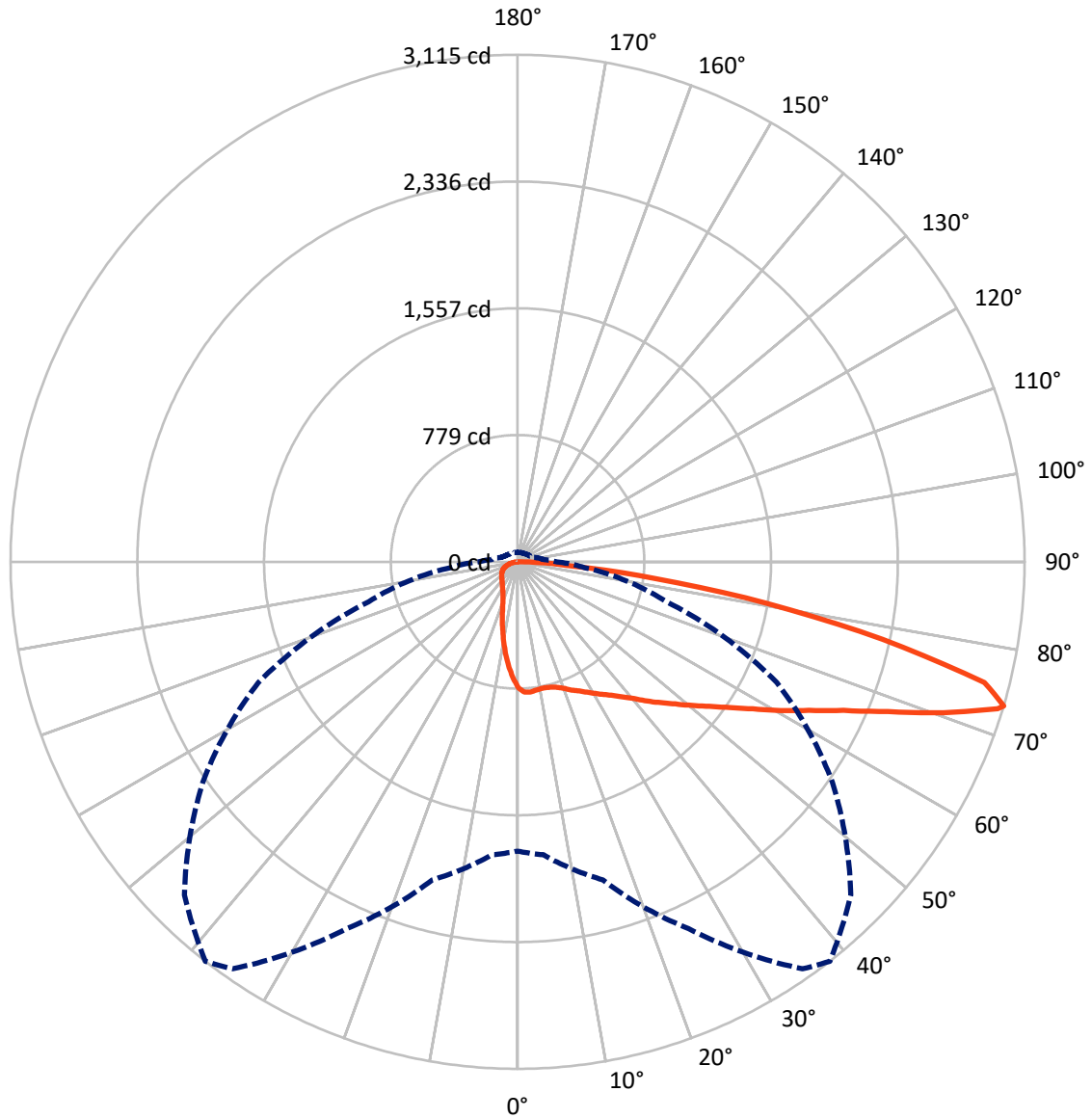
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P648213
CATALOG NUMBER: GALN-SA1B-835-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P648213
 CATALOG NUMBER: GALN-SA1B-835-U-SL4

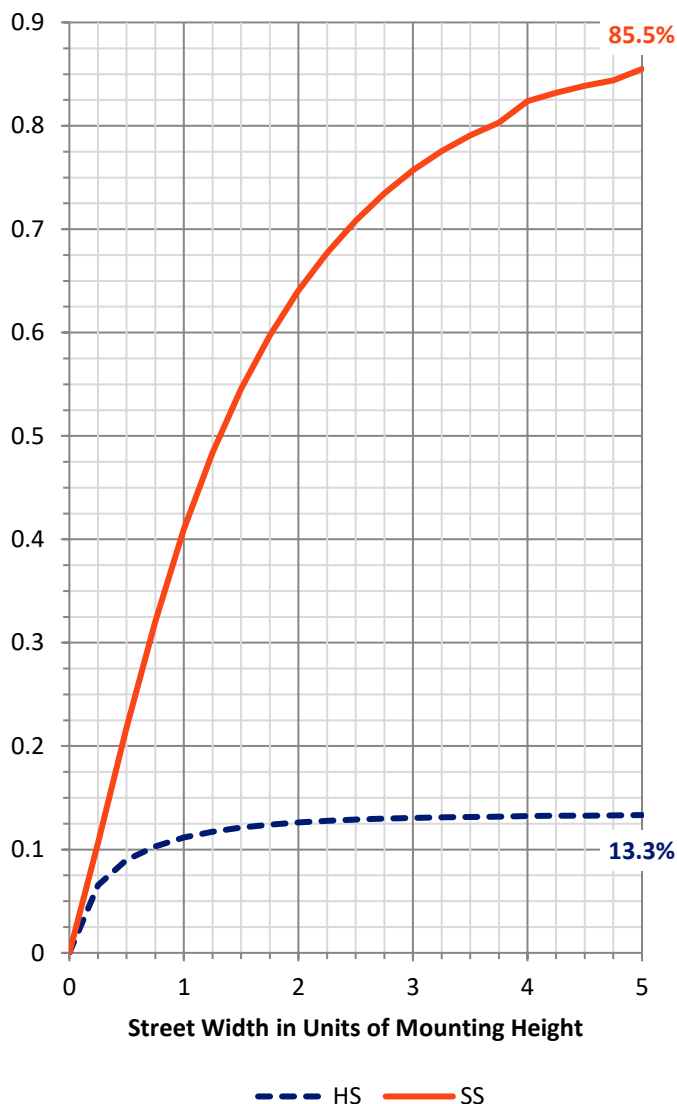
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	593.2	0.0	593.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3819.7	0.0	3819.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	4413.0	0.0	4413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	1.5
10°-20°	173.5	3.9
20°-30°	270.2	6.1
30°-40°	396.4	9.0
40°-50°	588.0	13.3
50°-60°	833.0	18.9
60°-70°	1056.7	23.9
70°-80°	879.7	19.9
80°-90°	147.8	3.3
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°	4413.0	100.0
0°-180°	4413.0	100.0

Coefficient of Utilization



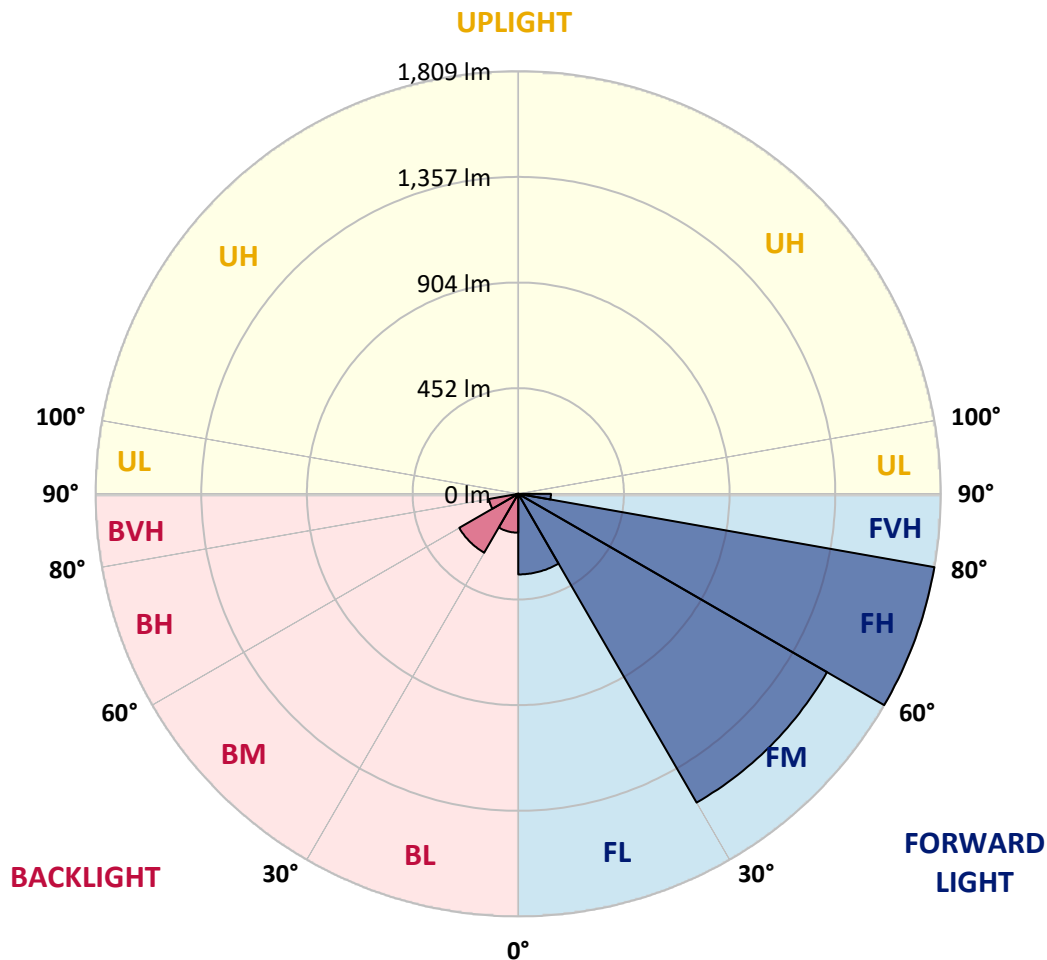
REPORT NUMBER: P648213
 CATALOG NUMBER: GALN-SA1B-835-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.0	7.8			
FM (30°-60°)	1526.1	34.6			
FH (60°-80°)	1808.9	41.0			G2/5000
FVH (80°-90°)	139.8	3.2			G2/225
BL (0°-30°)	166.5	3.8	B1/500		
BM (30°-60°)	291.2	6.6	B1/1000		
BH (60°-80°)	127.5	2.9	B1/500		G1/500
BVH (80°-90°)	8.0	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P648213

CATALOG NUMBER: GALN-SA1B-835-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2
2.5°	806.4	810.4	808.4	805.7	804.0	802.2	799.7	792.5	786.8	780.5	770.8
5°	812.4	814.9	813.1	809.7	805.7	804.0	799.2	789.7	780.5	770.1	755.6
7.5°	808.9	809.9	807.9	803.7	800.2	796.9	791.5	781.0	769.8	757.1	738.1
10°	796.5	800.2	800.2	796.7	793.3	791.5	786.0	776.0	765.9	751.4	729.0
12.5°	786.3	790.2	793.5	792.5	792.2	792.2	788.0	780.5	768.6	754.9	728.2
15°	779.2	784.0	791.0	795.0	797.5	798.2	796.5	790.0	777.8	761.9	731.2
17.5°	777.8	783.5	796.2	804.9	811.4	811.2	810.6	801.7	788.2	771.8	734.9
20°	784.5	792.0	809.7	823.4	832.9	831.1	828.3	816.7	800.9	782.5	738.4
22.5°	804.7	812.4	831.9	846.8	856.1	856.1	847.8	832.3	815.7	795.0	743.1
25°	833.6	842.0	862.8	878.0	882.2	879.0	870.7	852.1	832.9	812.9	753.1
27.5°	869.0	879.2	898.4	911.1	909.8	907.3	898.9	875.0	855.8	837.6	770.1
30°	913.1	920.6	940.5	943.5	939.1	938.5	926.5	902.6	884.7	870.7	794.2
32.5°	954.7	961.4	977.4	978.7	970.7	971.6	960.4	938.5	928.3	923.3	834.8
35°	998.8	1002.3	1016.0	1014.5	1009.3	1008.6	1004.0	983.1	986.3	995.3	892.4
37.5°	1035.7	1042.7	1050.4	1051.6	1051.4	1053.9	1056.9	1046.9	1065.6	1093.8	967.9
40°	1069.6	1075.6	1087.0	1091.0	1100.7	1105.8	1115.9	1116.2	1159.3	1205.7	1060.9
42.5°	1092.5	1102.8	1124.2	1131.4	1155.1	1170.0	1185.2	1201.4	1264.0	1323.6	1170.5
45°	1112.5	1126.0	1161.6	1184.0	1216.2	1234.3	1266.5	1300.4	1390.3	1468.4	1281.9
47.5°	1142.6	1154.6	1195.5	1235.1	1283.7	1304.6	1352.7	1403.3	1520.9	1606.4	1388.6
50°	1184.5	1191.7	1233.3	1297.9	1359.9	1386.8	1450.4	1523.4	1660.5	1742.7	1482.3
52.5°	1238.1	1241.1	1274.2	1360.1	1441.9	1475.3	1559.6	1644.8	1782.6	1861.1	1556.5
55°	1301.3	1296.4	1322.3	1426.2	1535.6	1579.2	1669.7	1767.6	1919.9	1956.8	1610.6
57.5°	1363.9	1356.2	1376.9	1506.5	1651.3	1703.8	1809.3	1894.2	2042.5	2046.2	1648.5
60°	1430.2	1424.5	1449.2	1600.7	1793.1	1855.3	1952.8	2025.5	2161.2	2108.5	1654.5
62.5°	1498.3	1489.0	1524.2	1706.5	1952.8	2009.3	2103.8	2165.2	2277.5	2131.7	1596.9
65°	1564.3	1560.0	1614.4	1832.5	2134.7	2199.0	2290.7	2332.3	2370.7	2096.9	1454.1
67.5°	1634.6	1643.0	1729.7	2000.4	2371.9	2452.7	2551.6	2512.5	2397.4	1931.6	1224.6
70°	1741.7	1747.2	1881.2	2220.4	2677.8	2775.2	2823.0	2576.5	2268.8	1617.8	920.6
72.5°	1787.8	1812.0	2016.6	2451.5	3025.1	3084.7	2914.2	2433.8	1890.0	1099.0	483.7
73°	1777.6	1806.5	2022.8	2486.6	3052.3	3114.9	2894.8	2360.3	1756.9	946.5	414.7
75°	1650.3	1685.9	1941.8	2457.2	2999.4	2962.1	2582.3	2011.6	1187.3	430.4	188.9
77.5°	1302.1	1312.3	1538.6	1984.2	2362.0	2292.7	1932.6	1257.3	485.0	160.0	107.2
80°	653.2	690.8	867.3	1136.6	1579.5	1556.8	1219.9	594.6	202.1	94.0	71.0
82.5°	314.2	340.9	422.4	554.2	872.7	852.1	604.1	324.9	128.3	54.8	41.9
85°	202.3	222.3	268.9	264.4	358.8	342.6	271.4	245.9	76.0	28.7	29.1
87.5°	133.6	146.3	175.5	140.3	130.6	118.2	119.9	138.6	15.0	11.0	4.0
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: P648213
 CATALOG NUMBER: GALN-SA1B-835-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2	775.2
2.5°	766.8	763.6	752.9	742.4	732.4	722.9	716.8	708.5	703.1	704.5	706.7
5°	747.6	740.4	721.5	703.1	685.6	664.9	648.2	634.7	624.5	620.8	620.1
7.5°	727.4	715.2	688.1	656.4	626.8	601.1	571.4	556.7	539.6	533.5	531.6
10°	715.2	698.7	660.6	616.5	571.9	529.3	497.2	471.0	447.3	442.9	440.6
12.5°	711.7	690.1	638.7	581.9	522.6	470.3	422.7	388.3	365.3	360.1	352.4
15°	709.7	682.9	618.3	547.0	471.8	407.9	357.8	317.7	296.8	282.8	283.1
17.5°	708.0	674.6	595.4	508.9	427.9	354.4	299.0	262.9	243.7	236.2	235.5
20°	705.5	664.9	568.9	468.8	377.8	305.5	255.4	228.6	215.6	209.3	209.1
22.5°	704.5	655.4	543.0	427.9	333.5	267.9	226.5	207.6	199.4	195.1	195.1
25°	707.0	648.7	515.8	389.0	294.1	235.8	206.6	193.6	188.9	186.7	185.9
27.5°	714.7	645.7	489.0	350.2	257.9	213.8	193.2	184.2	180.6	178.9	179.2
30°	729.4	645.4	462.5	311.8	231.0	197.2	182.4	176.2	173.4	172.4	172.2
32.5°	753.1	650.9	436.6	280.1	208.4	183.1	172.4	168.0	166.7	166.0	165.8
35°	793.3	666.4	410.9	251.2	190.9	170.7	163.0	160.7	159.0	159.7	160.0
37.5°	847.3	693.0	386.5	228.6	177.7	161.5	155.0	153.0	152.0	152.8	153.5
40°	919.8	731.4	366.1	210.3	168.2	153.8	148.1	146.3	145.3	146.5	146.8
42.5°	999.8	775.8	349.1	196.1	160.5	147.3	141.8	139.8	139.1	139.8	140.1
45°	1082.0	827.4	340.4	185.9	154.0	142.6	136.8	134.6	132.8	132.3	133.1
47.5°	1163.1	872.3	340.1	179.7	148.8	138.3	132.1	129.6	127.3	126.1	125.8
50°	1229.1	907.9	346.2	177.0	144.3	133.6	127.3	124.9	121.8	119.4	119.9
52.5°	1279.0	931.1	348.9	175.7	141.8	128.6	122.4	120.1	116.7	113.4	113.4
55°	1311.1	936.5	342.2	174.5	139.8	123.3	116.7	114.6	111.2	107.9	107.9
57.5°	1322.0	919.6	318.0	171.5	137.8	118.9	110.9	109.2	106.4	103.2	102.7
60°	1296.6	862.2	275.6	162.5	133.8	114.2	104.7	103.9	102.9	100.1	99.9
62.5°	1198.7	740.6	229.5	150.8	127.1	109.2	99.0	100.1	100.9	99.4	99.2
65°	1035.7	601.3	196.1	134.6	118.2	102.2	92.7	95.9	98.0	98.0	97.4
67.5°	840.1	461.8	165.2	120.6	106.9	92.7	85.7	88.2	89.7	89.2	90.4
70°	597.1	312.7	134.6	104.7	92.7	82.0	76.7	76.7	75.8	75.2	75.2
72.5°	289.6	178.7	109.2	87.5	79.0	70.0	65.8	64.0	62.1	61.8	60.5
73°	241.9	160.3	104.1	84.3	75.8	68.3	63.6	60.8	59.6	58.6	58.3
75°	147.3	121.6	87.0	71.0	64.5	58.8	54.6	52.1	50.8	50.1	49.9
77.5°	96.9	90.7	67.6	54.3	49.3	45.9	44.1	41.7	40.9	39.9	39.9
80°	72.3	69.3	48.3	38.4	35.4	32.4	31.9	31.4	29.4	28.2	27.6
82.5°	46.6	49.3	32.9	25.7	22.4	20.0	20.2	20.9	18.9	17.2	16.7
85°	33.1	35.6	20.0	11.7	9.5	8.2	9.2	8.2	8.5	6.7	5.5
87.5°	5.5	9.5	3.5	1.5	0.8	0.5	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)