

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: P451040

Luminaire Tested: **GALN-SA1D-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5703 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

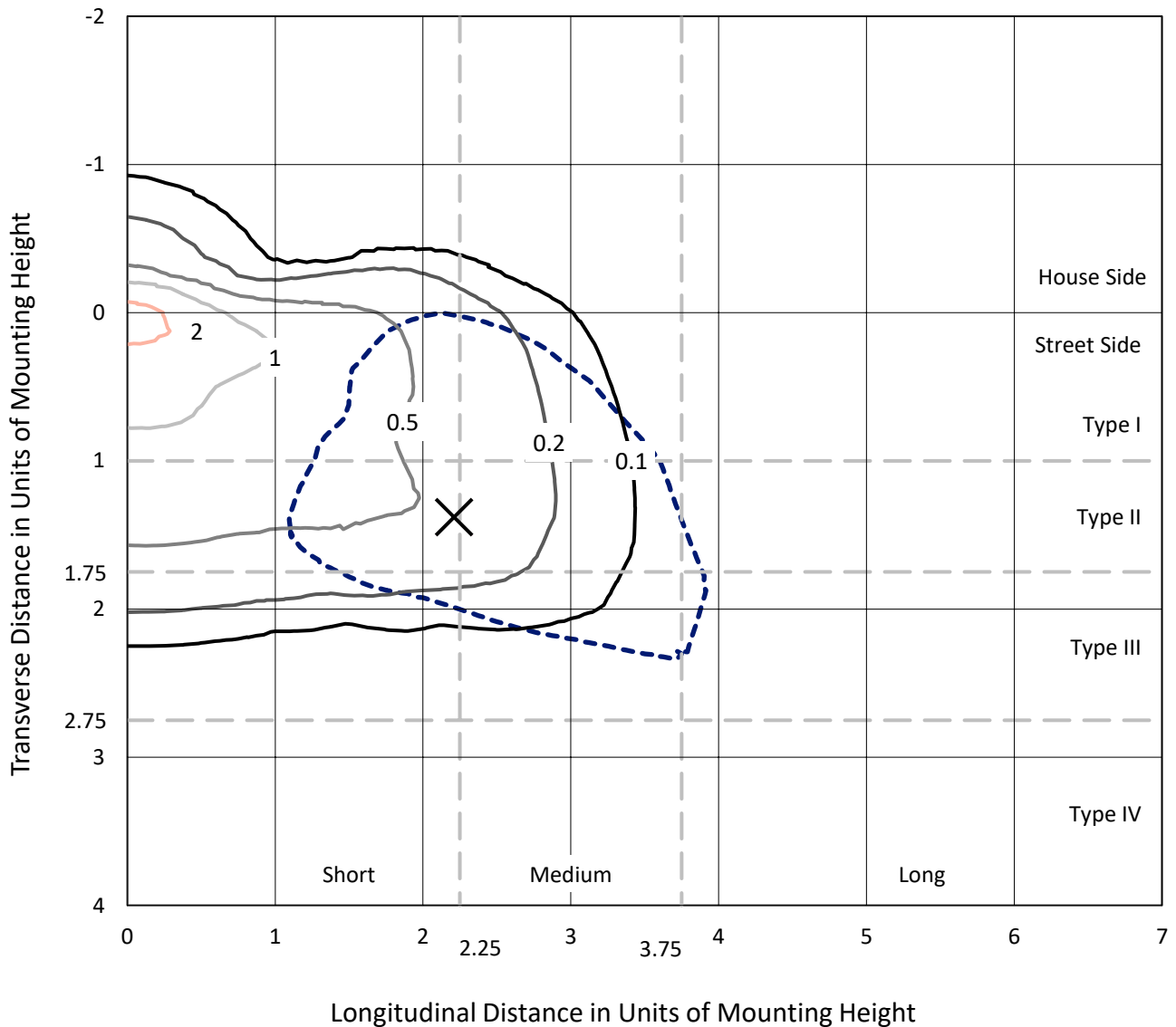
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451040
 CATALOG NUMBER: GALN-SA1D-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

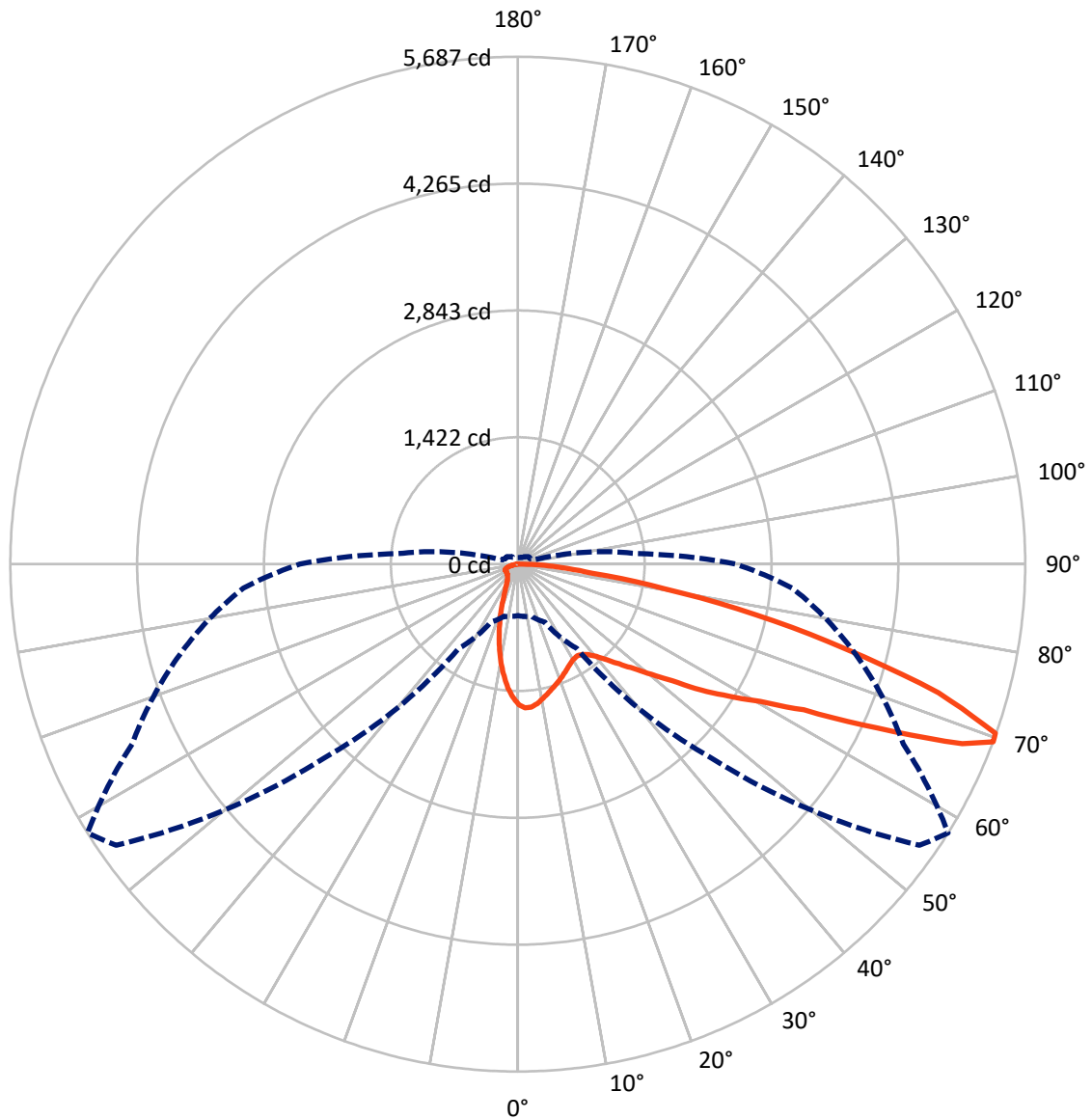
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

REPORT NUMBER: P451040
CATALOG NUMBER: GALN-SA1D-827-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P451040

CATALOG NUMBER: GALN-SA1D-827-U-SL3

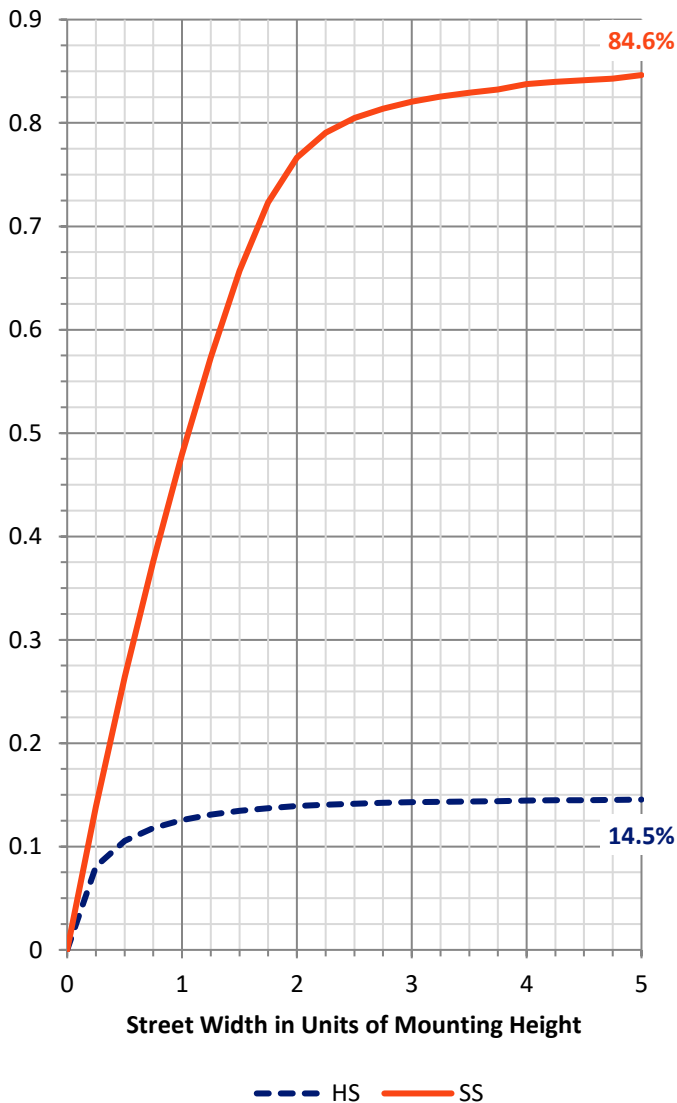
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	835.8	0.0	835.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4867.2	0.0	4867.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	5703.0	0.0	5703.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	2.3
10°-20°	293.9	5.2
20°-30°	379.7	6.7
30°-40°	493.2	8.6
40°-50°	717.0	12.6
50°-60°	1144.1	20.1
60°-70°	1528.3	26.8
70°-80°	881.0	15.4
80°-90°	132.0	2.3
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°	5703.0	100.0
0°-180°	5703.0	100.0



REPORT NUMBER: P451040

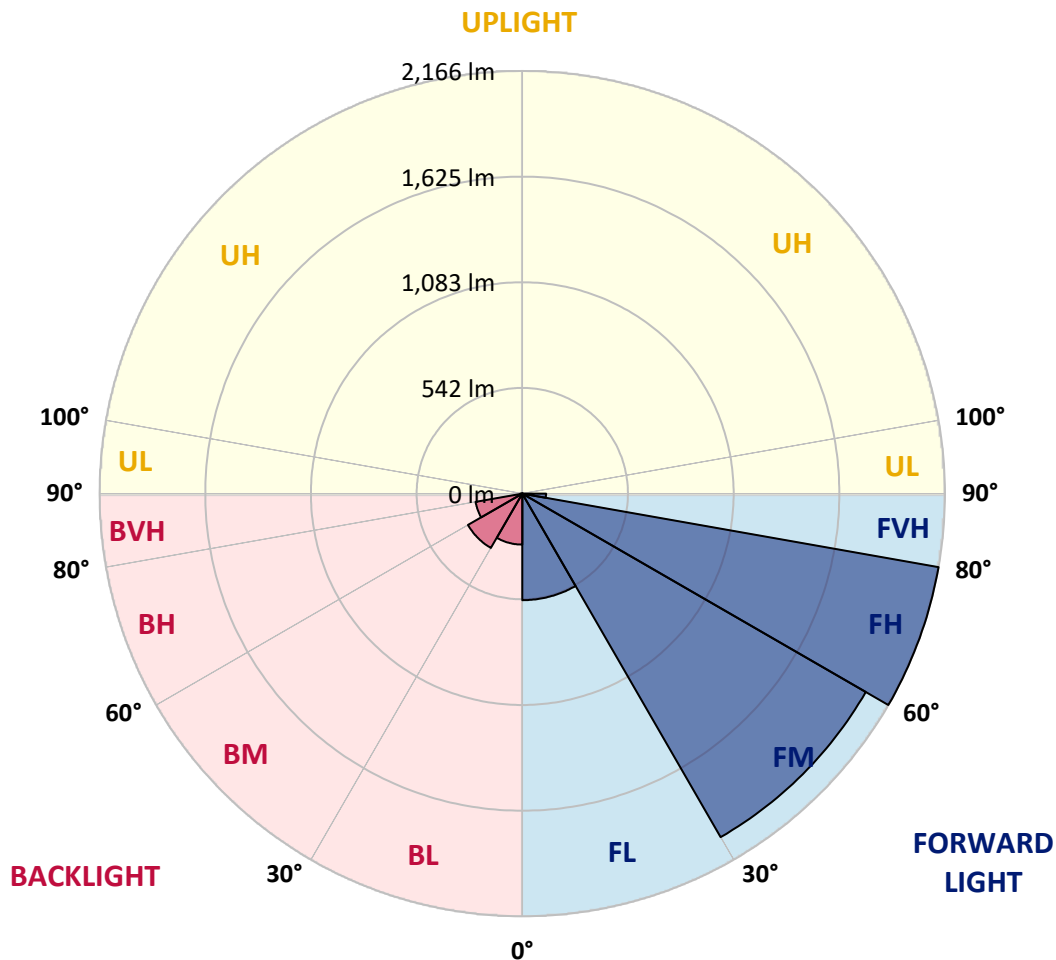
CATALOG NUMBER: GALN-SA1D-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	546.2	9.6			
FM (30°-60°)	2032.8	35.6			
FH (60°-80°)	2166.3	38.0			G2/5000
FVH (80°-90°)	121.8	2.1			G2/225
BL (0°-30°)	261.2	4.6	B1/500		
BM (30°-60°)	321.4	5.6	B1/1000		
BH (60°-80°)	243.0	4.3	B1/500		G1/500
BVH (80°-90°)	10.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P451040

CATALOG NUMBER: GALN-SA1D-827-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0
2.5°	1634.5	1639.0	1637.7	1636.1	1633.5	1626.5	1615.1	1613.2	1605.9	1590.3	1570.9
5°	1609.4	1613.2	1613.5	1615.7	1618.9	1617.6	1609.4	1608.4	1597.6	1576.6	1544.2
7.5°	1523.2	1528.3	1539.4	1551.8	1562.9	1573.4	1576.0	1577.6	1570.9	1546.7	1503.5
10°	1426.2	1431.3	1436.3	1454.8	1482.1	1508.2	1529.9	1532.7	1534.3	1512.0	1459.2
12.5°	1318.7	1329.2	1340.0	1367.3	1403.9	1444.9	1483.1	1489.1	1500.0	1483.1	1421.1
15°	1227.4	1238.2	1253.8	1278.3	1322.5	1381.6	1435.4	1445.3	1466.6	1458.0	1385.5
17.5°	1164.1	1167.9	1178.7	1206.7	1254.4	1316.8	1388.6	1408.4	1442.4	1440.2	1354.9
20°	1114.2	1118.9	1125.6	1142.8	1192.4	1258.2	1345.1	1370.5	1416.6	1424.3	1324.7
22.5°	1093.2	1096.7	1095.7	1104.9	1138.6	1204.8	1300.9	1331.1	1393.7	1413.4	1296.7
25°	1094.4	1097.6	1092.8	1090.6	1110.7	1157.7	1254.7	1293.2	1375.3	1406.1	1271.3
27.5°	1115.7	1118.0	1109.1	1100.2	1101.8	1128.5	1216.6	1259.2	1359.7	1409.3	1250.0
30°	1144.4	1148.5	1142.8	1132.0	1120.2	1121.5	1192.1	1234.1	1352.4	1420.4	1239.8
32.5°	1181.3	1185.1	1182.5	1174.0	1158.7	1141.8	1186.0	1224.8	1353.0	1443.0	1237.6
35°	1220.1	1227.7	1231.8	1231.2	1218.8	1189.5	1209.9	1242.0	1368.3	1480.9	1250.6
37.5°	1264.0	1270.3	1288.1	1299.6	1288.1	1254.1	1263.6	1285.9	1402.0	1535.6	1279.2
40°	1306.6	1316.1	1342.2	1377.8	1373.4	1343.5	1345.7	1360.3	1461.5	1617.0	1335.2
42.5°	1351.1	1362.6	1408.0	1460.8	1471.3	1448.1	1454.2	1467.2	1546.1	1729.9	1431.3
45°	1408.4	1422.0	1478.0	1543.9	1585.2	1570.9	1588.1	1594.4	1659.3	1876.9	1557.8
47.5°	1482.1	1498.1	1567.1	1649.1	1707.7	1720.7	1750.6	1746.8	1799.6	2050.8	1722.0
50°	1606.5	1615.4	1680.6	1764.3	1844.7	1903.6	1936.0	1942.1	1973.5	2220.0	1905.5
52.5°	1754.4	1762.4	1809.4	1882.6	1983.4	2108.1	2188.2	2168.5	2176.1	2426.1	2120.2
55°	1920.7	1934.1	1964.0	2012.7	2143.4	2326.9	2487.8	2492.6	2408.0	2623.3	2326.0
57.5°	2049.6	2072.1	2123.4	2192.7	2358.4	2570.2	2786.5	2789.7	2681.5	2833.9	2553.0
60°	1984.7	2011.4	2128.4	2297.3	2640.5	2994.8	3143.4	3125.2	2947.8	3073.7	2830.1
62.5°	1704.8	1709.6	1879.7	2143.7	2727.3	3562.9	3674.5	3597.9	3303.0	3377.8	3111.6
65°	1103.3	1134.5	1269.4	1639.3	2442.0	3878.1	4605.2	4428.0	3801.1	3722.9	3347.2
67.5°	696.5	688.6	744.6	936.0	1679.7	3600.4	5399.3	5371.4	4452.5	3940.7	3290.9
69°	577.6	586.5	605.6	717.5	1155.8	3074.0	5493.2	5686.6	4768.3	3923.6	3086.4
70°	523.8	528.0	548.0	636.1	891.8	2574.7	5339.2	5678.0	4892.4	3851.7	2938.2
72.5°	415.7	415.4	449.7	529.2	666.6	1469.7	4384.1	4929.6	4753.7	3517.1	2427.7
75°	315.8	320.9	358.8	447.8	614.2	803.1	3059.4	3796.3	3796.7	2777.9	1514.9
77.5°	227.7	230.9	275.1	375.9	578.5	651.1	2037.8	2722.9	2559.7	1272.9	476.1
80°	149.2	151.1	184.8	297.7	521.6	614.2	1208.3	1666.6	1207.3	337.8	157.4
82.5°	81.7	91.3	112.9	192.7	418.6	567.4	734.4	843.5	452.9	150.4	82.1
85°	41.0	43.6	63.6	112.6	273.5	469.5	511.4	483.8	233.8	74.7	42.6
87.5°	12.1	15.3	26.4	43.6	111.0	244.6	284.7	255.4	90.0	27.0	8.9
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: P451040
 CATALOG NUMBER: GALN-SA1D-827-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0	1576.0
2.5°	1562.9	1557.2	1531.8	1508.9	1487.9	1465.6	1446.8	1430.3	1431.9	1432.2	1415.4
5°	1527.3	1514.3	1465.9	1420.8	1382.6	1334.3	1292.9	1266.2	1252.8	1235.0	1241.4
7.5°	1479.0	1453.8	1386.7	1311.7	1241.4	1178.7	1110.7	1063.9	1034.0	1005.1	1008.9
10°	1429.0	1388.6	1291.0	1191.8	1100.8	1000.6	913.8	839.4	784.0	763.3	749.7
12.5°	1377.8	1324.7	1200.7	1068.7	943.0	823.1	700.0	620.2	559.1	526.7	530.8
15°	1331.1	1266.5	1106.5	945.6	782.4	639.6	516.8	440.8	398.2	389.3	394.4
17.5°	1287.8	1203.2	1018.4	826.0	635.5	479.6	388.3	345.4	328.2	323.5	323.1
20°	1243.3	1149.5	919.5	698.1	495.2	371.8	318.7	298.7	295.5	297.4	297.7
22.5°	1198.1	1083.0	817.7	571.2	394.4	304.1	278.6	273.2	275.8	280.2	280.8
25°	1156.5	1024.5	719.8	459.9	314.9	267.2	254.8	254.8	260.5	267.2	267.5
27.5°	1122.1	967.8	622.1	365.1	263.7	240.5	236.3	238.5	246.5	251.6	251.9
30°	1093.8	915.1	529.9	292.6	231.9	219.1	218.2	222.0	227.7	232.5	232.8
32.5°	1072.5	868.6	443.7	245.9	209.9	202.9	202.6	205.5	208.6	209.9	211.2
35°	1064.2	830.1	364.8	216.3	195.3	190.8	190.8	190.5	191.8	192.4	193.1
37.5°	1070.9	800.6	303.7	197.2	184.5	181.3	179.4	177.5	176.8	176.8	177.2
40°	1099.2	785.0	258.3	184.8	176.8	172.1	168.6	166.3	164.1	164.8	165.4
42.5°	1159.3	787.8	227.4	176.5	170.2	163.5	158.4	155.8	154.3	156.2	155.8
45°	1255.1	816.5	207.7	170.8	163.5	154.9	150.1	147.6	147.6	150.4	151.4
47.5°	1389.0	871.2	197.2	166.3	158.4	148.2	143.4	141.5	142.2	146.9	147.3
50°	1552.4	966.3	195.3	164.1	155.8	143.4	138.0	136.1	137.7	142.8	143.4
52.5°	1732.8	1088.7	204.5	164.4	153.6	140.6	133.6	130.7	132.3	136.4	137.7
55°	1946.5	1242.0	228.4	165.7	150.4	139.0	130.4	124.0	126.0	128.8	129.1
57.5°	2164.7	1435.4	270.3	166.0	147.9	136.1	125.0	116.7	116.7	118.6	119.6
60°	2431.2	1645.9	325.7	166.3	148.2	132.0	117.7	108.5	107.2	108.1	108.5
62.5°	2695.9	1822.2	334.9	165.4	151.4	127.9	109.7	100.2	98.0	97.6	97.0
65°	2812.6	1789.4	274.5	160.9	154.9	125.3	103.4	92.2	88.4	87.1	87.1
67.5°	2622.4	1513.6	206.4	154.9	152.7	122.8	97.3	85.6	81.1	78.6	78.6
69°	2443.6	1346.3	185.4	150.8	146.9	118.6	93.5	82.1	76.7	73.8	72.8
70°	2305.6	1231.2	176.5	147.3	141.5	113.9	90.6	79.5	73.5	70.3	69.7
72.5°	1840.0	965.9	154.6	133.9	120.5	95.7	80.5	71.6	65.8	62.3	61.4
75°	1060.4	523.5	128.2	116.4	97.0	74.4	68.1	62.3	57.9	54.7	53.8
77.5°	326.3	202.3	92.9	91.9	71.2	57.6	54.4	52.2	49.0	45.5	44.8
80°	137.4	103.1	63.0	62.0	47.4	40.1	39.1	38.8	37.5	34.7	33.7
82.5°	75.4	58.2	43.9	38.2	28.6	23.2	24.2	24.5	23.5	20.7	18.8
85°	36.9	31.8	21.3	17.2	13.0	8.3	8.0	9.5	8.9	6.4	7.0
87.5°	7.3	8.9	5.7	2.5	1.3	0.0	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)