

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: P450663

Luminaire Tested: **GALN-SA1C-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450663
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-SA1C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 5897 lumens
Efficiency: N/A
Efficacy: 103.5 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

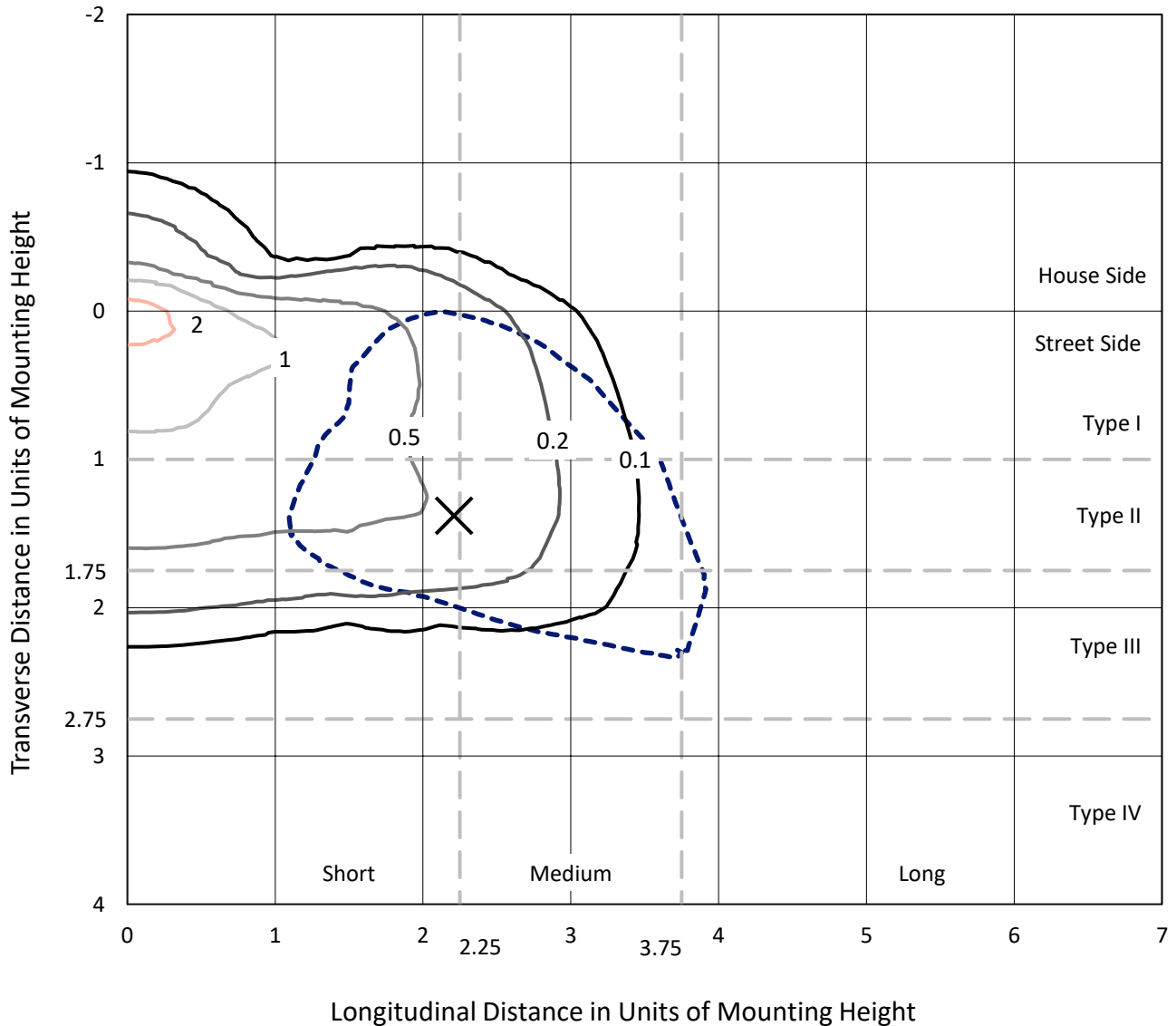
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

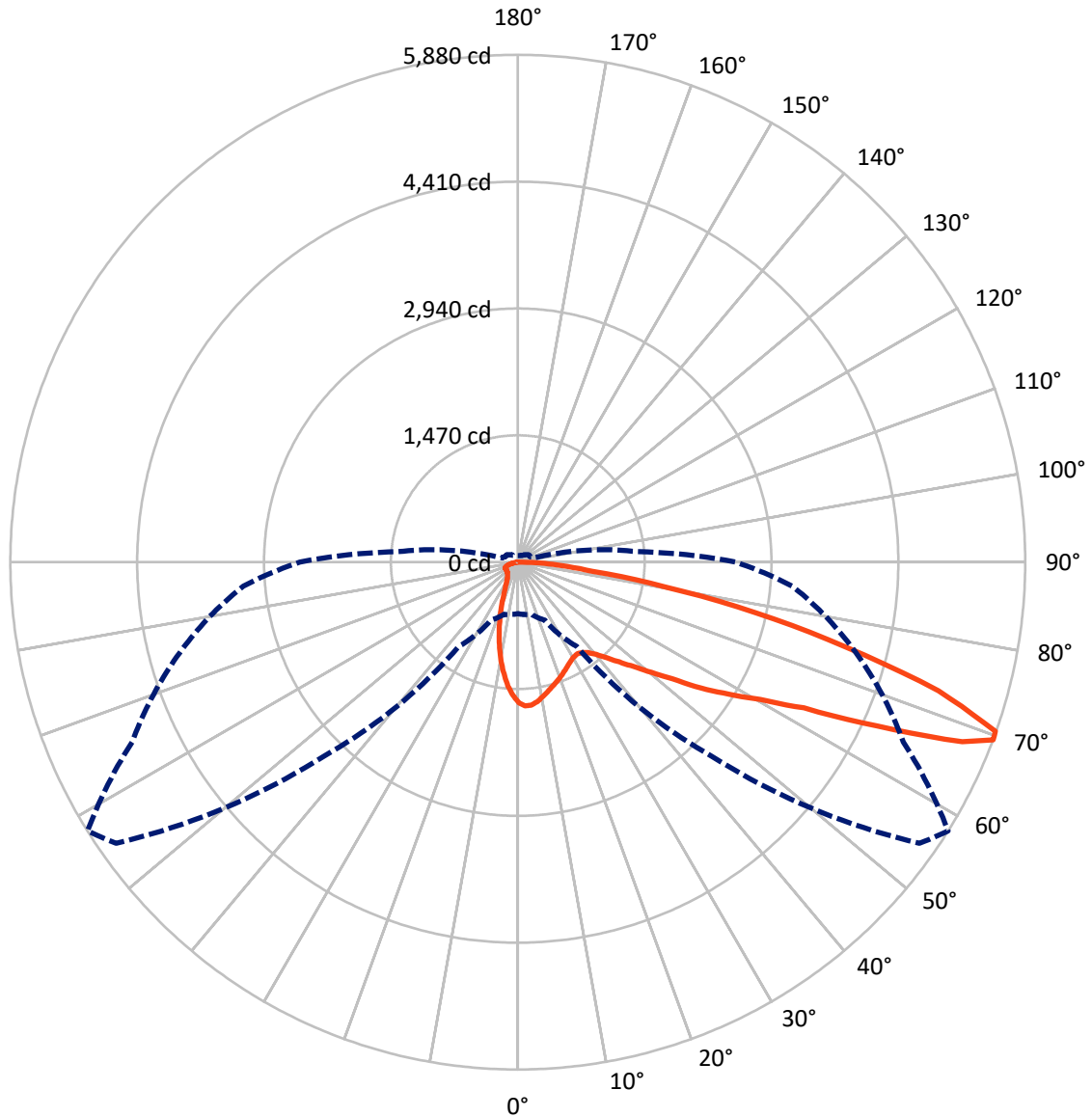
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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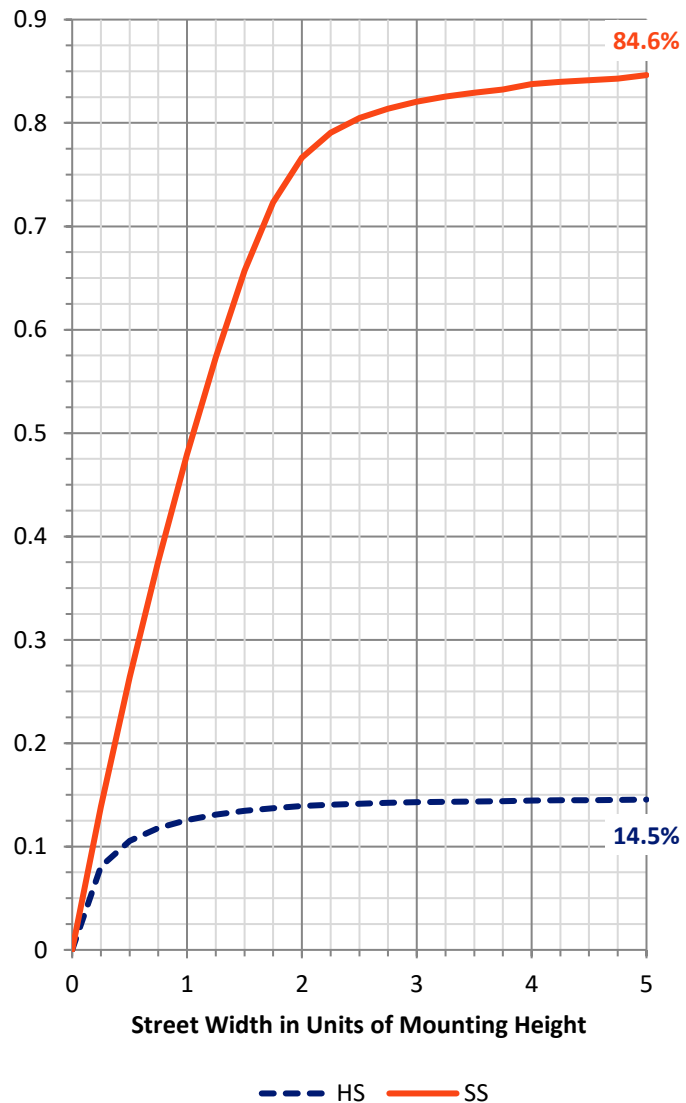
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	864.2	0.0	864.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5032.8	0.0	5032.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	5897.0	0.0	5897.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	2.3
10°-20°	303.9	5.2
20°-30°	392.6	6.7
30°-40°	509.9	8.6
40°-50°	741.4	12.6
50°-60°	1183.0	20.1
60°-70°	1580.3	26.8
70°-80°	911.0	15.4
80°-90°	136.5	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°	5897.0	100.0
0°-180°	5897.0	100.0



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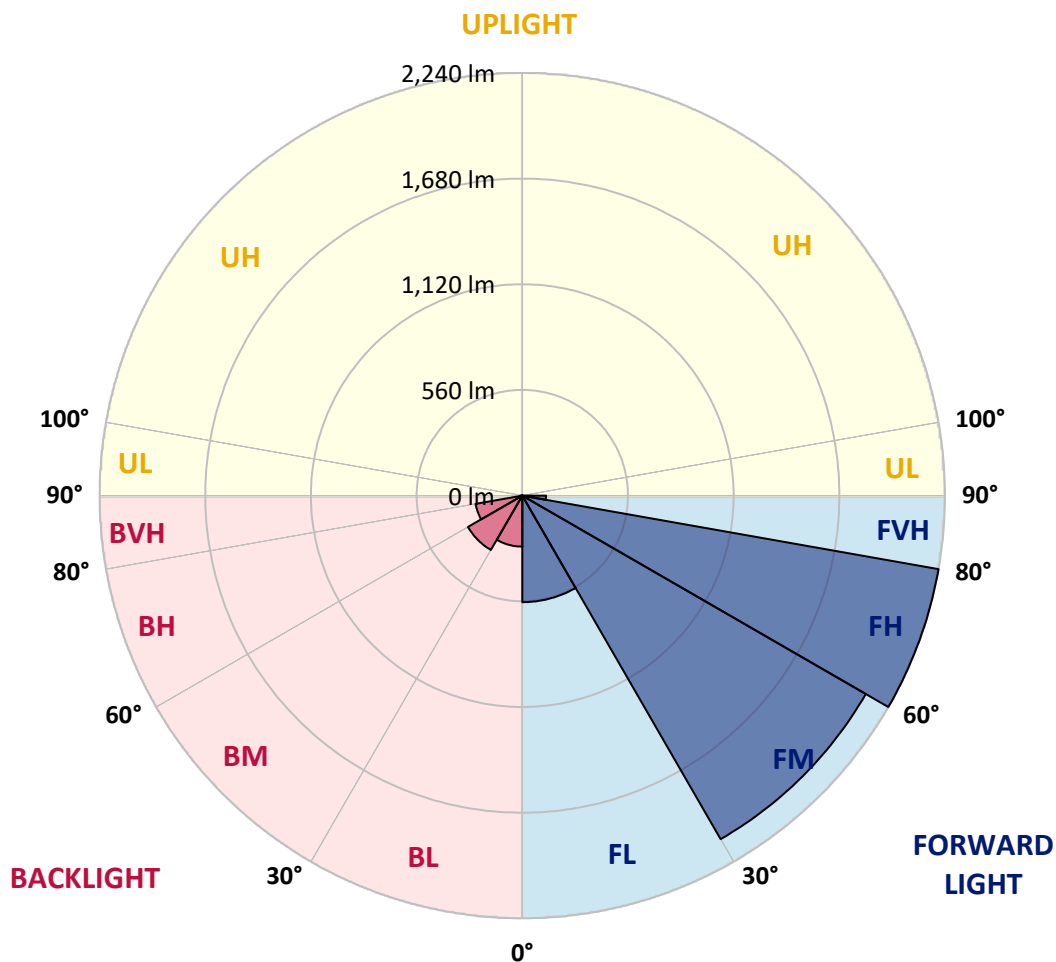
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	564.8	9.6			
FM (30°-60°)	2102.0	35.6			
FH (60°-80°)	2240.0	38.0			G2/5000
FVH (80°-90°)	126.0	2.1			G2/225
BL (0°-30°)	270.1	4.6	B1/500		
BM (30°-60°)	332.3	5.6	B1/1000		
BH (60°-80°)	251.3	4.3	B1/500		G1/500
BVH (80°-90°)	10.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1629.6	1629.6	1629.6	1629.6	1629.6	1629.6	1629.6	1629.6	1629.6	1629.6	1629.6
2.5°	1690.1	1694.7	1693.4	1691.7	1689.1	1681.9	1670.0	1668.1	1660.5	1644.4	1624.3
5°	1664.1	1668.1	1668.4	1670.7	1674.0	1672.7	1664.1	1663.1	1651.9	1630.2	1596.7
7.5°	1575.0	1580.3	1591.8	1604.6	1616.1	1627.0	1629.6	1631.2	1624.3	1599.3	1554.6
10°	1474.7	1479.9	1485.2	1504.3	1532.6	1559.5	1581.9	1584.9	1586.5	1563.5	1508.9
12.5°	1363.5	1374.4	1385.6	1413.8	1451.7	1494.1	1533.6	1539.8	1551.0	1533.6	1469.4
15°	1269.1	1280.3	1296.4	1321.8	1367.5	1428.6	1484.2	1494.4	1516.5	1507.6	1432.6
17.5°	1203.7	1207.6	1218.8	1247.8	1297.1	1361.6	1435.9	1456.3	1491.5	1489.2	1401.0
20°	1152.1	1157.0	1163.9	1181.7	1233.0	1301.0	1390.8	1417.1	1464.8	1472.7	1369.8
22.5°	1130.4	1134.0	1133.0	1142.5	1177.4	1245.8	1345.1	1376.4	1441.1	1461.5	1340.8
25°	1131.7	1135.0	1130.0	1127.7	1148.4	1197.1	1297.4	1337.2	1422.1	1454.0	1314.5
27.5°	1153.7	1156.0	1146.8	1137.6	1139.2	1166.9	1258.0	1302.0	1405.9	1457.3	1292.5
30°	1183.3	1187.6	1181.7	1170.5	1158.3	1159.6	1232.6	1276.0	1398.4	1468.8	1282.0
32.5°	1221.4	1225.4	1222.8	1213.9	1198.1	1180.7	1226.4	1266.5	1399.0	1492.1	1279.7
35°	1261.6	1269.5	1273.7	1273.1	1260.3	1230.0	1251.0	1284.3	1414.8	1531.3	1293.1
37.5°	1307.0	1313.5	1332.0	1343.8	1332.0	1296.8	1306.6	1329.6	1449.7	1587.8	1322.7
40°	1351.0	1360.9	1387.9	1424.7	1420.1	1389.2	1391.5	1406.6	1511.2	1672.0	1380.6
42.5°	1397.1	1408.9	1455.9	1510.5	1521.4	1497.4	1503.6	1517.1	1598.7	1788.8	1479.9
45°	1456.3	1470.4	1528.3	1596.4	1639.1	1624.3	1642.1	1648.7	1715.8	1940.7	1610.8
47.5°	1532.6	1549.0	1620.4	1705.2	1765.7	1779.2	1810.1	1806.2	1860.8	2120.6	1780.5
50°	1661.2	1670.4	1737.8	1824.3	1907.5	1968.3	2001.9	2008.1	2040.7	2295.6	1970.3
52.5°	1814.1	1822.3	1871.0	1946.6	2050.9	2179.8	2262.7	2242.3	2250.2	2508.7	2192.3
55°	1986.1	1999.9	2030.8	2081.1	2216.3	2406.1	2572.5	2577.4	2489.9	2712.6	2405.1
57.5°	2119.3	2142.6	2195.6	2267.3	2438.6	2657.7	2881.3	2884.6	2772.8	2930.3	2639.9
60°	2052.2	2079.8	2200.8	2375.5	2730.3	3096.7	3250.3	3231.5	3048.0	3178.3	2926.3
62.5°	1762.8	1767.7	1943.7	2216.6	2820.1	3684.1	3799.5	3720.3	3415.4	3492.7	3217.4
65°	1140.9	1173.1	1312.5	1695.0	2525.1	4010.0	4761.8	4578.6	3930.4	3849.5	3461.1
67.5°	720.2	712.0	769.9	967.9	1736.8	3722.9	5583.0	5554.1	4603.9	4074.8	3402.9
69°	597.2	606.4	626.2	741.9	1195.1	3178.6	5680.0	5880.0	4930.5	4057.0	3191.4
70°	541.7	545.9	566.7	657.8	922.2	2662.3	5520.9	5871.1	5058.8	3982.7	3038.2
72.5°	429.8	429.5	465.0	547.3	689.3	1519.7	4533.2	5097.3	4915.4	3636.7	2510.3
75°	326.6	331.8	371.0	463.1	635.1	830.4	3163.5	3925.5	3925.8	2872.4	1566.4
77.5°	235.5	238.8	284.5	388.7	598.2	673.2	2107.1	2815.5	2646.8	1316.2	492.3
80°	154.2	156.2	191.1	307.8	539.4	635.1	1249.4	1723.3	1248.4	349.3	162.8
82.5°	84.5	94.4	116.8	199.3	432.8	586.7	759.4	872.2	468.3	155.6	84.9
85°	42.4	45.1	65.8	116.4	282.8	485.4	528.8	500.2	241.7	77.3	44.1
87.5°	12.5	15.8	27.3	45.1	114.8	252.9	294.3	264.1	93.1	28.0	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1629.6	1629.6	1629.6	1629.6	1629.6	1629.6	1629.6	1629.6	1629.6	1629.6	1629.6
2.5°	1616.1	1610.2	1583.9	1560.2	1538.5	1515.5	1496.1	1479.0	1480.6	1480.9	1463.5
5°	1579.3	1565.8	1515.8	1469.1	1429.6	1379.6	1336.9	1309.3	1295.4	1277.0	1283.6
7.5°	1529.3	1503.3	1433.9	1356.3	1283.6	1218.8	1148.4	1100.1	1069.2	1039.3	1043.2
10°	1477.6	1435.9	1334.9	1232.3	1138.2	1034.6	944.9	867.9	810.7	789.3	775.2
12.5°	1424.7	1369.8	1241.5	1105.0	975.1	851.1	723.9	641.3	578.2	544.6	548.9
15°	1376.4	1309.6	1144.2	977.8	809.0	661.4	534.4	455.8	411.8	402.5	407.8
17.5°	1331.6	1244.1	1053.1	854.1	657.1	495.9	401.6	357.2	339.4	334.5	334.1
20°	1285.6	1188.6	950.8	721.9	512.1	384.5	329.5	308.8	305.5	307.5	307.8
22.5°	1238.9	1119.8	845.5	590.7	407.8	314.4	288.1	282.5	285.1	289.7	290.4
25°	1195.8	1059.3	744.2	475.6	325.6	276.3	263.4	263.4	269.4	276.3	276.6
27.5°	1160.3	1000.8	643.3	377.6	272.6	248.6	244.4	246.7	254.9	260.1	260.5
30°	1131.0	946.2	547.9	302.6	239.8	226.6	225.6	229.6	235.5	240.4	240.7
32.5°	1109.0	898.2	458.8	254.2	217.1	209.8	209.5	212.5	215.7	217.1	218.4
35°	1100.4	858.4	377.2	223.6	201.9	197.3	197.3	197.0	198.3	199.0	199.6
37.5°	1107.3	827.8	314.1	203.9	190.7	187.5	185.5	183.5	182.9	182.9	183.2
40°	1136.6	811.7	267.0	191.1	182.9	177.9	174.3	172.0	169.7	170.4	171.0
42.5°	1198.8	814.6	235.1	182.5	175.9	169.0	163.8	161.1	159.5	161.5	161.1
45°	1297.7	844.2	214.8	176.6	169.0	160.2	155.2	152.6	152.6	155.6	156.5
47.5°	1436.2	900.8	203.9	172.0	163.8	153.3	148.3	146.4	147.0	151.9	152.3
50°	1605.2	999.1	201.9	169.7	161.1	148.3	142.7	140.8	142.4	147.7	148.3
52.5°	1791.7	1125.7	211.5	170.0	158.8	145.4	138.1	135.2	136.8	141.1	142.4
55°	2012.7	1284.3	236.1	171.3	155.6	143.7	134.8	128.3	130.2	133.2	133.5
57.5°	2238.3	1484.2	279.5	171.7	152.9	140.8	129.2	120.7	120.7	122.7	123.7
60°	2513.9	1701.9	336.8	172.0	153.3	136.5	121.7	112.1	110.8	111.8	112.1
62.5°	2787.6	1884.1	346.3	171.0	156.5	132.2	113.5	103.6	101.3	101.0	100.3
65°	2908.3	1850.3	283.8	166.4	160.2	129.6	106.9	95.4	91.4	90.1	90.1
67.5°	2711.6	1565.1	213.4	160.2	157.9	126.9	100.6	88.5	83.9	81.2	81.2
69°	2526.8	1392.1	191.7	155.9	151.9	122.7	96.7	84.9	79.3	76.3	75.3
70°	2384.0	1273.1	182.5	152.3	146.4	117.7	93.7	82.2	76.0	72.7	72.0
72.5°	1902.6	998.8	159.8	138.5	124.6	99.0	83.2	74.0	68.1	64.5	63.5
75°	1096.5	541.3	132.5	120.4	100.3	77.0	70.4	64.5	59.9	56.6	55.6
77.5°	337.4	209.2	96.0	95.0	73.7	59.5	56.2	53.9	50.6	47.0	46.4
80°	142.1	106.6	65.1	64.1	49.0	41.4	40.5	40.1	38.8	35.8	34.9
82.5°	77.9	60.2	45.4	39.5	29.6	24.0	25.0	25.3	24.3	21.4	19.4
85°	38.1	32.9	22.0	17.8	13.5	8.6	8.2	9.9	9.2	6.6	7.2
87.5°	7.6	9.2	5.9	2.6	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)