

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: P450692

Luminaire Tested: **GALN-SA1C-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450692
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-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 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: 6421 lumens
Efficiency: N/A
Efficacy: 112.6 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

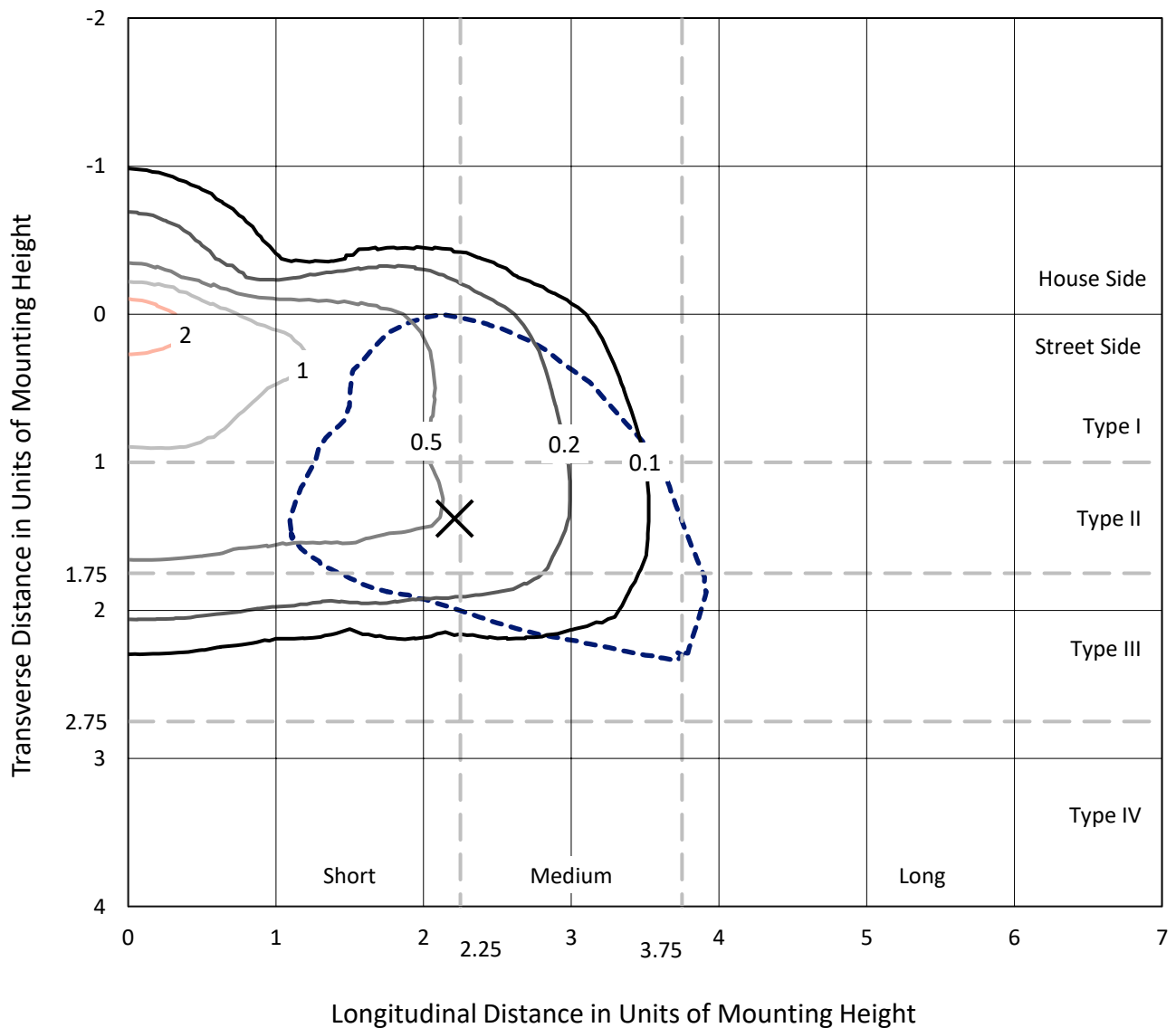
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

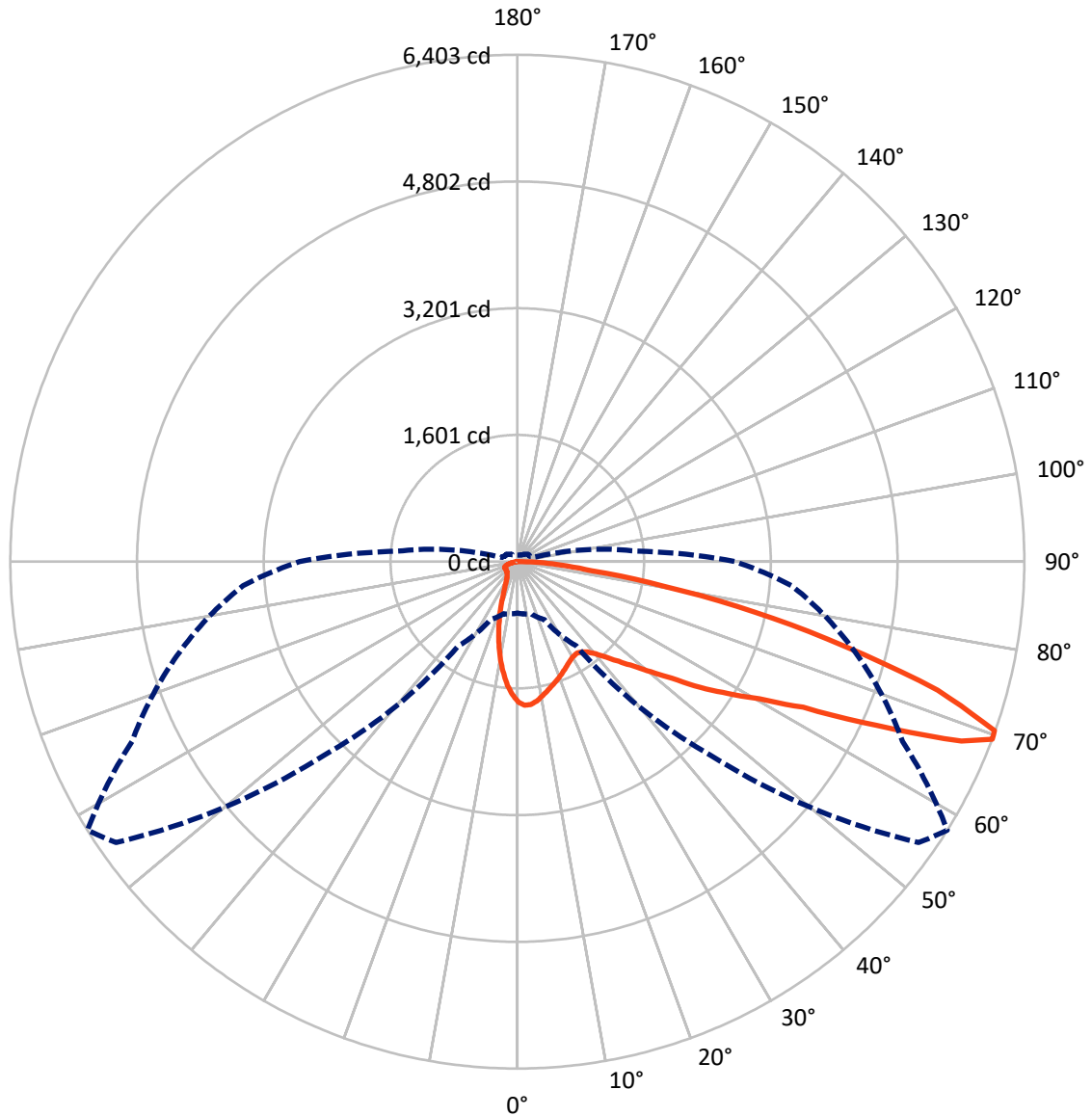
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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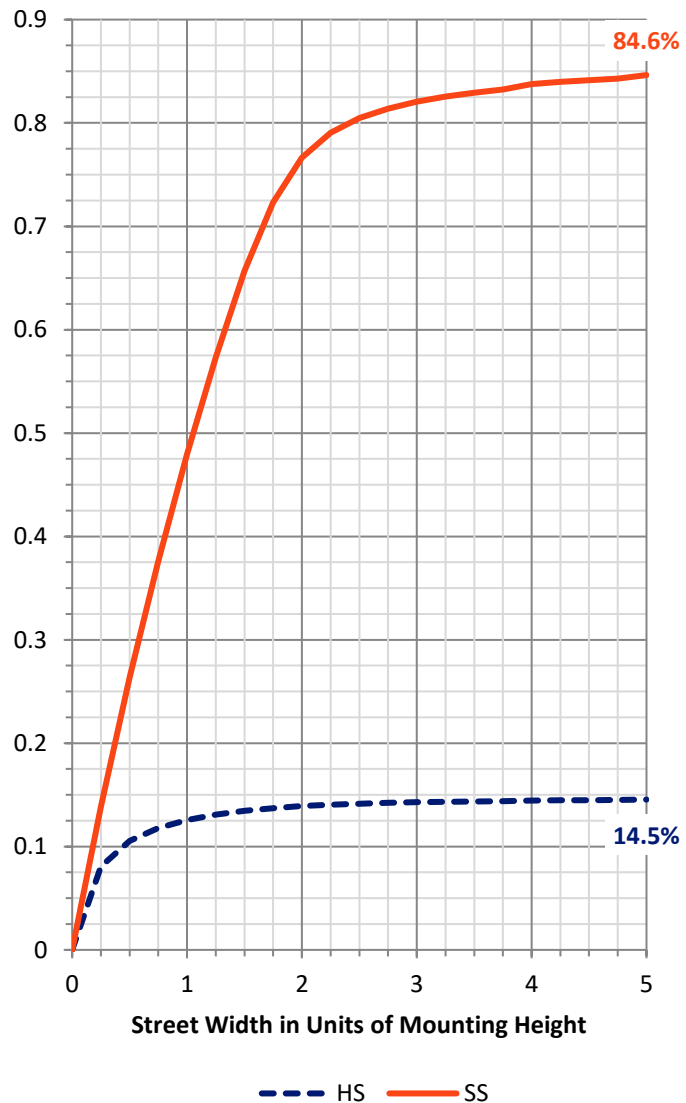
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	941.0	0.0	941.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5480.0	0.0	5480.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	6421.0	0.0	6421.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	2.3
10°-20°	330.9	5.2
20°-30°	427.5	6.7
30°-40°	555.3	8.6
40°-50°	807.3	12.6
50°-60°	1288.1	20.1
60°-70°	1720.8	26.8
70°-80°	992.0	15.4
80°-90°	148.6	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°	6421.0	100.0
0°-180°	6421.0	100.0



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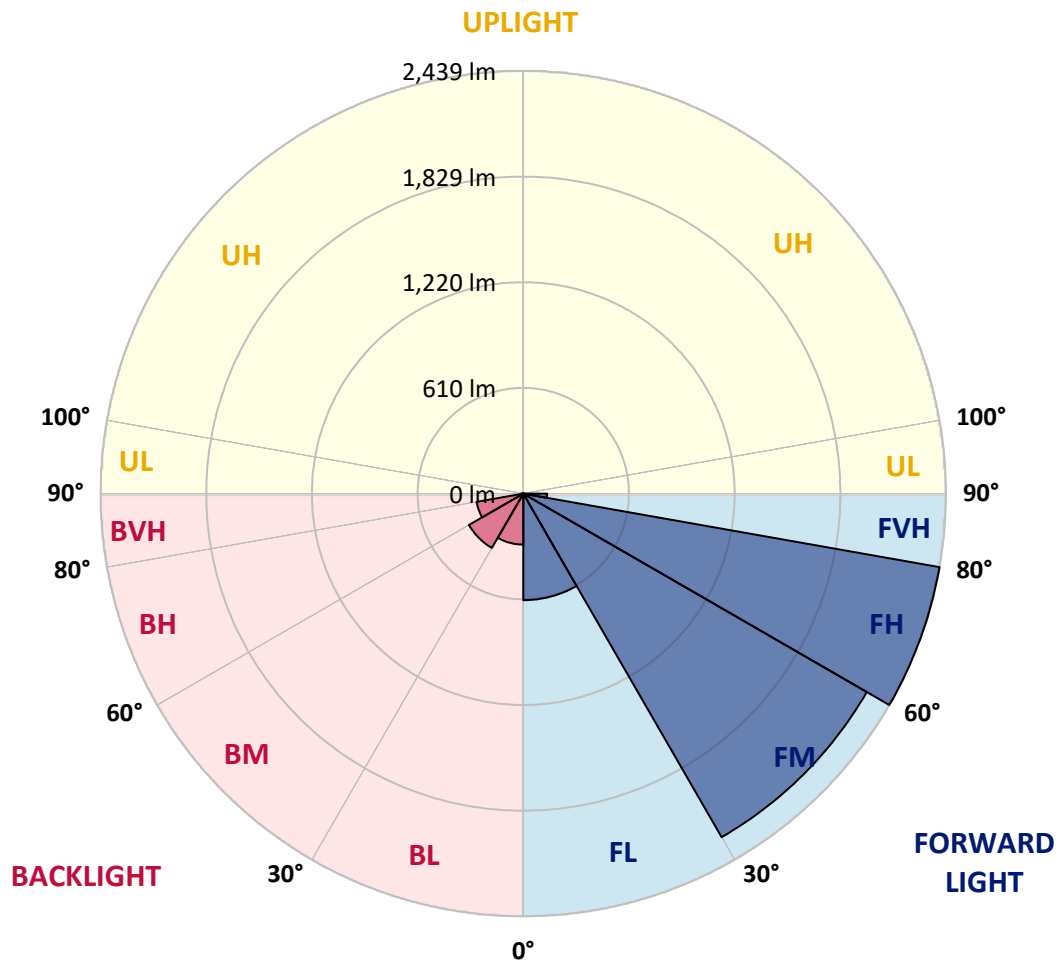
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.0	9.6			
FM (30°-60°)	2288.8	35.6			
FH (60°-80°)	2439.1	38.0			G2/5000
FVH (80°-90°)	137.2	2.1			G2/225
BL (0°-30°)	294.1	4.6	B1/500		
BM (30°-60°)	361.9	5.6	B1/1000		
BH (60°-80°)	273.6	4.3	B1/500		G1/500
BVH (80°-90°)	11.4	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°	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4
2.5°	1840.3	1845.3	1843.9	1842.1	1839.2	1831.3	1818.4	1816.3	1808.0	1790.5	1768.7
5°	1812.0	1816.3	1816.6	1819.2	1822.7	1821.3	1812.0	1810.9	1798.7	1775.1	1738.6
7.5°	1714.9	1720.7	1733.2	1747.2	1759.7	1771.5	1774.4	1776.2	1768.7	1741.4	1692.7
10°	1605.7	1611.5	1617.2	1638.0	1668.7	1698.1	1722.5	1725.7	1727.5	1702.4	1643.0
12.5°	1484.7	1496.5	1508.7	1539.5	1580.7	1626.9	1669.8	1676.6	1688.8	1669.8	1600.0
15°	1381.9	1394.1	1411.6	1439.2	1489.0	1555.6	1616.1	1627.2	1651.2	1641.5	1559.9
17.5°	1310.6	1314.9	1327.1	1358.6	1412.3	1482.5	1563.5	1585.7	1624.0	1621.5	1525.5
20°	1254.4	1259.8	1267.3	1286.7	1342.5	1416.6	1514.4	1543.1	1595.0	1603.6	1491.5
22.5°	1230.8	1234.7	1233.7	1244.0	1282.0	1356.5	1464.6	1498.7	1569.2	1591.4	1460.0
25°	1232.2	1235.8	1230.4	1227.9	1250.5	1303.5	1412.7	1456.0	1548.4	1583.2	1431.3
27.5°	1256.2	1258.7	1248.7	1238.7	1240.5	1270.5	1369.7	1417.7	1530.9	1586.7	1407.3
30°	1288.4	1293.1	1286.7	1274.5	1261.2	1262.7	1342.2	1389.4	1522.6	1599.3	1395.9
32.5°	1330.0	1334.3	1331.4	1321.7	1304.6	1285.6	1335.4	1379.0	1523.4	1624.7	1393.4
35°	1373.7	1382.3	1386.9	1386.2	1372.2	1339.3	1362.2	1398.4	1540.5	1667.3	1408.1
37.5°	1423.1	1430.3	1450.3	1463.2	1450.3	1412.0	1422.7	1447.8	1578.5	1728.9	1440.3
40°	1471.1	1481.8	1511.2	1551.3	1546.3	1512.6	1515.1	1531.6	1645.5	1820.6	1503.3
42.5°	1521.2	1534.1	1585.3	1644.8	1656.6	1630.4	1637.2	1651.9	1740.7	1947.7	1611.5
45°	1585.7	1601.1	1664.1	1738.2	1784.8	1768.7	1788.0	1795.2	1868.2	2113.2	1754.0
47.5°	1668.7	1686.7	1764.4	1856.8	1922.6	1937.3	1971.0	1966.7	2026.1	2309.0	1938.8
50°	1808.8	1818.8	1892.2	1986.4	2077.0	2143.2	2179.8	2186.6	2222.0	2499.5	2145.4
52.5°	1975.3	1984.2	2037.2	2119.6	2233.1	2373.5	2463.7	2441.5	2450.1	2731.6	2387.1
55°	2162.6	2177.6	2211.3	2266.1	2413.2	2619.9	2801.1	2806.4	2711.2	2953.6	2618.8
57.5°	2307.6	2333.0	2390.7	2468.7	2655.3	2893.8	3137.3	3140.9	3019.1	3190.7	2874.5
60°	2234.5	2264.6	2396.4	2586.6	2973.0	3371.9	3539.1	3518.7	3318.9	3460.7	3186.4
62.5°	1919.4	1924.8	2116.4	2413.6	3070.7	4011.4	4137.1	4050.8	3718.9	3803.0	3503.3
65°	1242.3	1277.3	1429.2	1845.7	2749.5	4366.3	5184.9	4985.5	4279.7	4191.6	3768.7
67.5°	784.2	775.3	838.3	1053.9	1891.1	4053.7	6079.1	6047.6	5013.1	4436.9	3705.3
69°	650.3	660.3	681.8	807.9	1301.3	3461.0	6184.8	6402.5	5368.6	4417.5	3475.0
70°	589.8	594.4	617.0	716.2	1004.1	2898.8	6011.4	6392.8	5508.3	4336.6	3308.1
72.5°	468.0	467.7	506.4	595.9	750.6	1654.8	4936.1	5550.2	5352.2	3959.9	2733.4
75°	355.6	361.3	403.9	504.2	691.5	904.2	3444.6	4274.3	4274.6	3127.7	1705.6
77.5°	256.4	260.0	309.8	423.3	651.4	733.0	2294.4	3065.7	2882.0	1433.1	536.1
80°	167.9	170.1	208.1	335.2	587.3	691.5	1360.4	1876.4	1359.3	380.3	177.3
82.5°	92.0	102.8	127.1	217.0	471.3	638.9	826.9	949.7	509.9	169.4	92.4
85°	46.2	49.1	71.6	126.8	308.0	528.6	575.8	544.7	263.2	84.2	48.0
87.5°	13.6	17.2	29.7	49.1	125.0	275.4	320.5	287.6	101.3	30.4	10.0
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°	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4
2.5°	1759.7	1753.3	1724.6	1698.8	1675.2	1650.1	1629.0	1610.4	1612.2	1612.5	1593.5
5°	1719.6	1704.9	1650.5	1599.6	1556.7	1502.2	1455.7	1425.6	1410.6	1390.5	1397.7
7.5°	1665.2	1636.9	1561.3	1476.8	1397.7	1327.1	1250.5	1197.8	1164.2	1131.6	1135.9
10°	1608.9	1563.5	1453.5	1341.8	1239.4	1126.6	1028.8	945.0	882.7	859.4	844.0
12.5°	1551.3	1491.5	1351.8	1203.2	1061.8	926.8	788.2	698.3	629.5	593.0	597.7
15°	1498.7	1426.0	1245.8	1064.6	880.9	720.1	581.9	496.3	448.3	438.3	444.0
17.5°	1449.9	1354.7	1146.6	930.0	715.5	540.0	437.2	388.9	369.6	364.2	363.8
20°	1399.8	1294.2	1035.3	786.0	557.6	418.6	358.8	336.3	332.7	334.8	335.2
22.5°	1349.0	1219.3	920.7	643.1	444.0	342.3	313.7	307.6	310.5	315.5	316.2
25°	1302.1	1153.4	810.4	517.8	354.5	300.8	286.8	286.8	293.3	300.8	301.2
27.5°	1263.4	1089.7	700.4	411.1	296.9	270.7	266.1	268.6	277.5	283.3	283.6
30°	1231.5	1030.3	596.6	329.5	261.1	246.7	245.7	250.0	256.4	261.8	262.1
32.5°	1207.5	978.0	499.6	276.8	236.3	228.5	228.1	231.3	234.9	236.3	237.8
35°	1198.2	934.6	410.7	243.5	219.9	214.9	214.9	214.5	215.9	216.7	217.4
37.5°	1205.7	901.3	342.0	222.0	207.7	204.1	202.0	199.8	199.1	199.1	199.5
40°	1237.6	883.8	290.8	208.1	199.1	193.7	189.8	187.3	184.8	185.5	186.2
42.5°	1305.3	887.0	256.0	198.7	191.6	184.1	178.3	175.5	173.7	175.8	175.5
45°	1413.1	919.2	233.8	192.3	184.1	174.4	169.0	166.2	166.2	169.4	170.5
47.5°	1563.8	980.8	222.0	187.3	178.3	166.9	161.5	159.4	160.1	165.4	165.8
50°	1747.9	1087.9	219.9	184.8	175.5	161.5	155.4	153.3	155.1	160.8	161.5
52.5°	1950.9	1225.8	230.3	185.1	173.0	158.3	150.4	147.2	149.0	153.6	155.1
55°	2191.6	1398.4	257.1	186.6	169.4	156.5	146.8	139.7	141.8	145.0	145.4
57.5°	2437.2	1616.1	304.4	186.9	166.5	153.3	140.7	131.4	131.4	133.6	134.6
60°	2737.3	1853.2	366.7	187.3	166.9	148.6	132.5	122.1	120.7	121.8	122.1
62.5°	3035.3	2051.6	377.1	186.2	170.5	144.0	123.5	112.8	110.3	109.9	109.2
65°	3166.7	2014.7	309.0	181.2	174.4	141.1	116.4	103.8	99.6	98.1	98.1
67.5°	2952.5	1704.2	232.4	174.4	171.9	138.2	109.6	96.3	91.3	88.5	88.5
69°	2751.3	1515.8	208.8	169.7	165.4	133.6	105.3	92.4	86.3	83.1	82.0
70°	2595.9	1386.2	198.7	165.8	159.4	128.2	102.1	89.5	82.7	79.1	78.4
72.5°	2071.6	1087.6	174.0	150.8	135.7	107.8	90.6	80.6	74.1	70.2	69.1
75°	1193.9	589.4	144.3	131.1	109.2	83.8	76.6	70.2	65.2	61.6	60.5
77.5°	367.4	227.8	104.6	103.5	80.2	64.8	61.2	58.7	55.1	51.2	50.5
80°	154.7	116.0	70.9	69.8	53.4	45.1	44.0	43.7	42.3	39.0	38.0
82.5°	84.9	65.5	49.4	43.0	32.2	26.1	27.2	27.6	26.5	23.3	21.1
85°	41.5	35.8	24.0	19.3	14.7	9.3	9.0	10.7	10.0	7.2	7.9
87.5°	8.2	10.0	6.4	2.9	1.4	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)