

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: P526516

Luminaire Tested: **GALN-SA1C-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5043 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

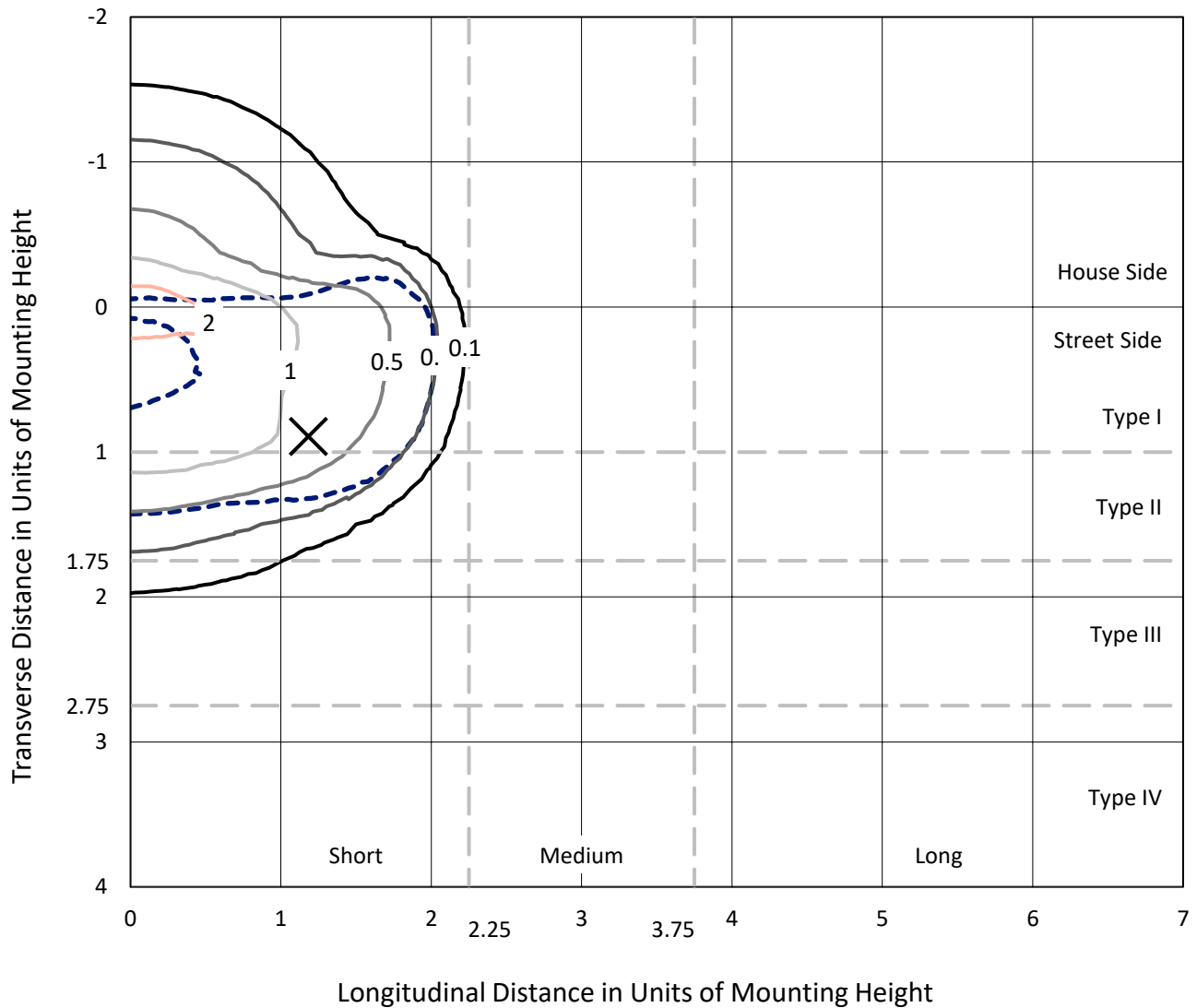
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

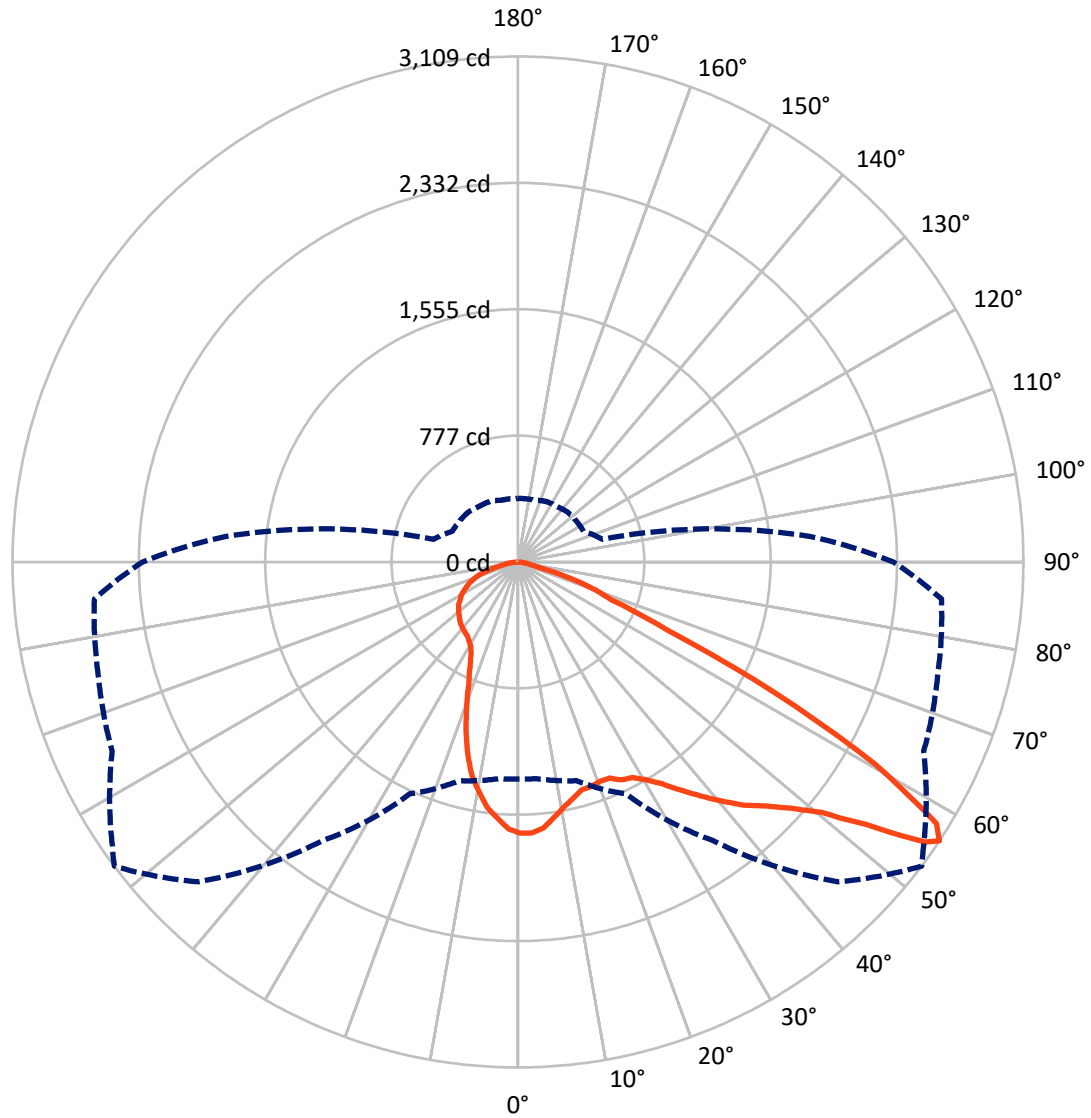
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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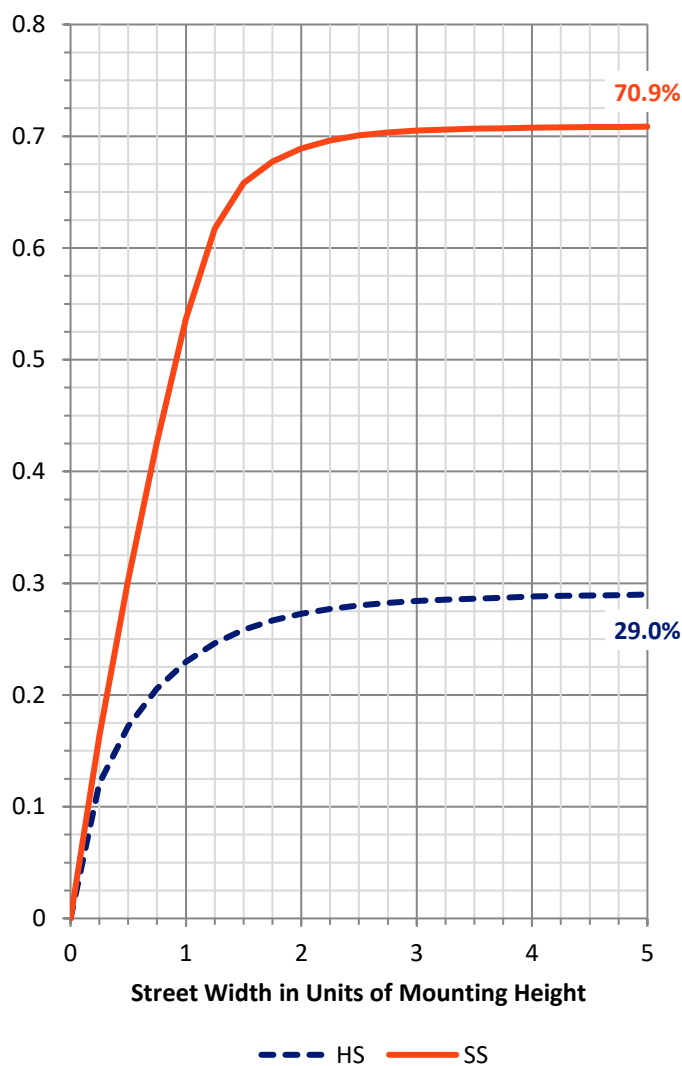
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1471.7	0.0	1471.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	3571.3	0.0	3571.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	5043.0	0.0	5043.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	2.9
10°-20°	368.9	7.3
20°-30°	544.0	10.8
30°-40°	777.2	15.4
40°-50°	1069.8	21.2
50°-60°	1264.2	25.1
60°-70°	673.7	13.4
70°-80°	170.9	3.4
80°-90°	26.7	0.5
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°	5043.0	100.0
0°-180°	5043.0	100.0

Coefficient of Utilization



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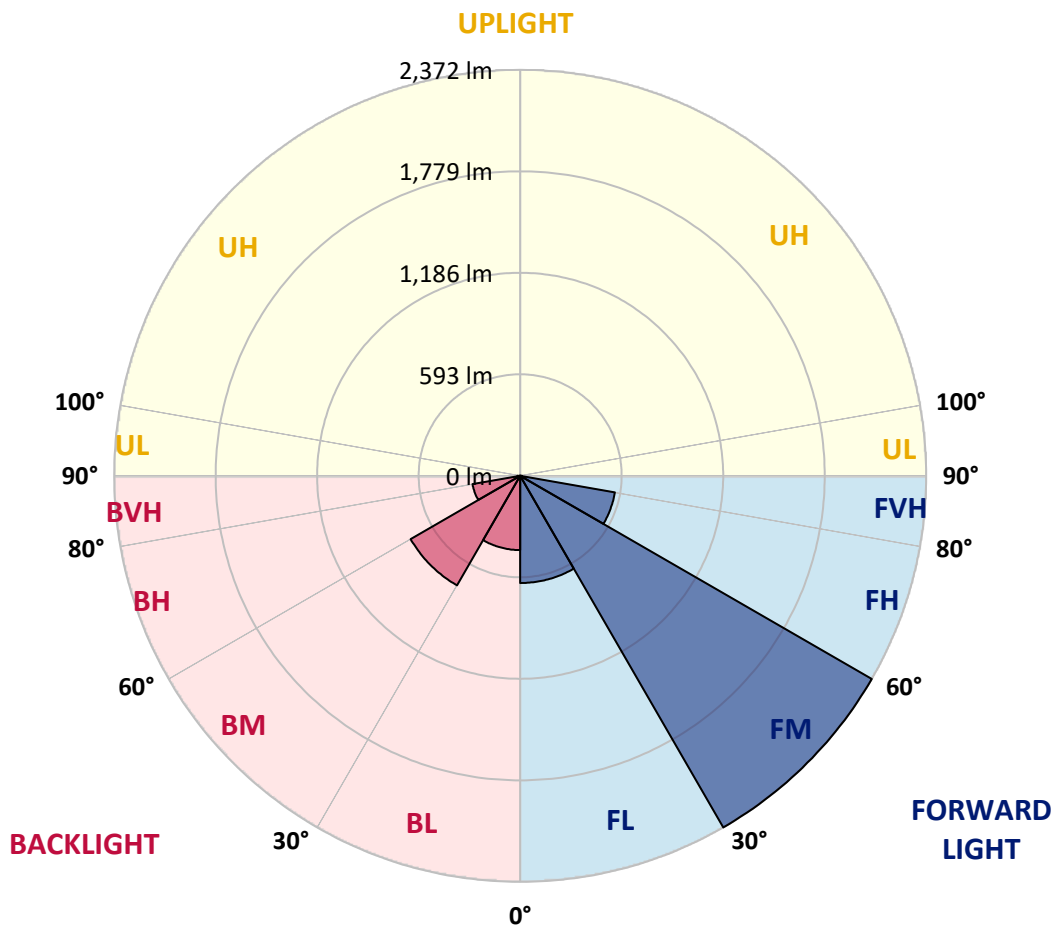
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	626.5	12.4			
FM (30°-60°)	2372.1	47.0			
FH (60°-80°)	562.0	11.1			G0/660
FVH (80°-90°)	10.7	0.2			G1/100
BL (0°-30°)	434.1	8.6	B1/500		
BM (30°-60°)	739.0	14.7	B1/1000		
BH (60°-80°)	282.7	5.6	B1/500		G1/500
BVH (80°-90°)	15.9	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4
2.5°	1647.7	1633.5	1641.9	1638.7	1665.2	1673.0	1669.1	1672.3	1687.2	1680.1	1665.2
5°	1539.7	1559.7	1563.6	1573.3	1588.9	1619.3	1643.2	1649.7	1656.8	1689.8	1686.5
7.5°	1441.4	1454.9	1447.8	1476.3	1509.9	1559.1	1588.2	1593.4	1658.7	1676.8	1690.4
10°	1379.2	1365.7	1398.0	1405.8	1443.9	1500.2	1535.2	1556.5	1616.0	1687.8	1696.2
12.5°	1321.7	1317.1	1336.5	1358.5	1401.2	1459.5	1495.0	1503.5	1595.3	1671.0	1710.5
15°	1279.0	1273.8	1293.2	1309.4	1359.2	1410.9	1456.2	1480.2	1572.7	1661.3	1698.2
17.5°	1245.3	1244.7	1255.7	1284.8	1335.9	1379.2	1452.3	1453.6	1561.0	1676.2	1708.5
20°	1243.4	1242.7	1244.7	1277.0	1323.6	1376.7	1440.1	1451.7	1561.0	1665.8	1709.2
22.5°	1259.6	1249.2	1260.9	1281.6	1315.2	1381.2	1444.6	1470.5	1598.6	1716.9	1738.3
25°	1285.4	1288.0	1294.5	1301.6	1321.0	1391.5	1484.7	1506.0	1642.5	1760.9	1778.4
27.5°	1332.7	1331.4	1334.0	1337.8	1354.7	1401.2	1500.9	1555.9	1734.4	1839.2	1821.7
30°	1401.9	1397.4	1407.7	1421.3	1405.8	1432.3	1554.6	1596.0	1819.8	1918.1	1870.3
32.5°	1464.6	1481.5	1500.9	1506.7	1487.9	1493.1	1625.7	1667.8	1891.0	2015.2	1929.8
35°	1542.9	1556.5	1582.4	1600.5	1597.3	1581.7	1722.8	1778.4	1993.8	2086.3	1992.5
37.5°	1619.3	1635.4	1678.1	1731.8	1702.1	1694.9	1826.3	1872.2	2025.5	2124.5	2038.5
40°	1742.2	1741.5	1815.3	1843.1	1869.6	1857.3	1933.7	1949.2	2042.3	2116.1	2039.8
42.5°	1886.4	1877.4	1952.4	1995.8	2030.1	2031.3	2045.6	2040.4	2050.1	2073.4	2026.2
45°	2023.6	2043.0	2118.7	2196.3	2230.6	2234.5	2140.0	2130.3	2063.7	2061.1	2000.3
47.5°	2191.1	2195.7	2257.8	2360.0	2439.6	2412.4	2262.3	2241.0	2123.2	2143.3	2043.6
50°	2200.8	2234.5	2290.1	2410.4	2655.0	2647.9	2420.8	2380.7	2219.0	2259.7	2164.6
52.5°	1997.7	1989.9	2055.9	2252.6	2638.8	2882.1	2683.5	2587.7	2424.7	2393.6	2360.6
55°	1522.2	1540.3	1598.6	1797.2	2291.4	2885.3	3041.2	2962.9	2644.6	2591.6	2553.4
56°	1335.3	1337.8	1392.8	1574.0	2090.9	2782.4	3109.1	3045.7	2754.0	2673.1	2614.9
57.5°	1106.9	1092.0	1120.5	1219.5	1764.8	2565.1	3034.7	3096.8	2882.1	2761.1	2680.2
60°	871.4	868.2	856.5	874.6	1115.3	1932.4	2526.2	2666.0	2869.1	2678.3	2567.0
62.5°	711.6	695.4	718.7	744.6	775.0	1198.8	1775.2	1857.3	2277.8	2138.1	1928.5
65°	551.8	544.1	573.2	657.3	675.4	761.4	1011.1	1074.5	1345.0	1321.0	1163.2
67.5°	379.7	381.0	406.3	534.4	626.2	618.5	619.1	652.1	701.9	521.4	454.1
70°	240.7	240.0	253.6	344.2	504.0	509.1	483.3	473.6	449.0	271.7	287.9
72.5°	154.6	150.1	157.2	190.2	260.7	301.5	310.5	316.3	260.1	213.5	231.6
75°	87.3	82.8	80.2	88.6	102.9	119.0	130.7	134.6	150.7	161.7	171.4
77.5°	26.5	23.9	29.1	38.8	51.1	68.6	83.5	86.0	101.6	114.5	124.2
80°	11.6	12.9	18.1	25.9	36.2	48.5	58.9	62.8	73.1	82.8	85.4
82.5°	7.1	7.8	12.3	17.5	25.2	34.3	42.1	43.3	53.7	61.5	63.4
85°	2.6	3.2	6.5	10.4	16.2	22.0	22.0	23.9	22.0	22.0	23.9
87.5°	0.0	0.0	0.6	1.3	1.3	1.9	2.6	2.6	3.2	3.9	4.5
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°	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4	1668.4
2.5°	1673.0	1669.7	1664.5	1645.8	1643.8	1638.0	1605.7	1600.5	1605.7	1590.1	1591.4
5°	1669.7	1679.4	1640.6	1621.8	1586.9	1561.7	1532.6	1517.7	1491.2	1474.3	1493.1
7.5°	1683.9	1680.1	1631.5	1590.8	1538.4	1474.3	1423.2	1394.1	1347.5	1334.6	1344.3
10°	1678.8	1658.1	1601.1	1547.4	1448.5	1392.2	1309.4	1229.2	1185.2	1162.5	1159.3
12.5°	1671.7	1665.8	1570.7	1478.2	1374.1	1255.7	1139.2	1063.5	991.7	960.7	965.2
15°	1680.1	1630.9	1513.8	1396.7	1258.3	1103.0	977.5	879.8	830.0	810.0	810.0
17.5°	1676.2	1614.1	1486.6	1305.5	1130.2	946.5	808.7	749.8	729.1	729.1	734.9
20°	1678.1	1625.1	1431.6	1214.3	978.8	797.0	696.7	675.4	684.4	687.7	690.9
22.5°	1689.1	1588.9	1378.0	1114.0	838.4	681.9	632.7	633.3	649.5	667.0	663.7
25°	1702.7	1574.6	1312.6	1014.4	731.0	625.6	610.1	608.1	620.4	629.5	630.8
27.5°	1691.1	1550.0	1246.0	890.2	643.0	588.1	584.8	586.1	590.0	608.1	602.3
30°	1729.2	1557.2	1162.5	786.0	594.5	575.8	571.9	569.9	575.8	580.9	576.4
32.5°	1776.5	1531.9	1100.4	685.7	570.6	566.7	558.9	556.4	559.6	554.4	557.0
35°	1797.2	1527.4	1019.6	613.9	551.8	548.6	544.1	543.4	544.1	539.5	535.7
37.5°	1808.8	1548.7	927.0	580.9	540.2	543.4	533.1	531.8	520.1	522.7	524.7
40°	1828.9	1515.7	852.0	549.2	533.1	526.6	517.5	515.6	507.8	503.3	507.8
42.5°	1799.7	1506.0	778.3	535.7	522.7	515.6	509.1	498.1	495.5	491.7	489.1
45°	1776.5	1450.4	712.3	518.8	510.4	506.5	494.3	482.6	472.9	476.8	471.0
47.5°	1793.9	1431.0	646.9	504.6	493.6	489.1	476.8	467.7	458.0	453.5	452.2
50°	1863.8	1467.2	591.9	494.3	479.4	476.8	460.6	450.3	441.2	438.0	439.3
52.5°	2030.7	1566.2	554.4	472.9	465.8	454.1	445.1	432.1	426.3	416.0	422.4
55°	2242.2	1727.3	544.7	452.8	449.0	438.6	426.3	416.6	405.6	397.2	395.3
56°	2310.2	1804.3	536.9	445.1	438.6	432.8	416.6	410.8	393.3	391.4	390.1
57.5°	2365.2	1872.2	538.2	430.2	423.7	418.6	408.9	394.6	383.0	375.9	379.1
60°	2241.0	1752.5	513.7	407.6	406.3	396.6	383.0	376.5	362.3	353.9	351.9
62.5°	1665.8	1189.7	416.6	378.5	377.8	367.5	351.9	344.8	342.2	330.6	330.6
65°	959.4	745.9	360.3	354.5	349.3	339.0	323.5	317.6	311.2	307.3	304.1
67.5°	409.5	386.9	327.3	326.7	320.9	307.9	292.4	283.4	274.9	267.2	271.1
70°	296.9	301.5	295.6	292.4	285.3	269.1	255.5	244.5	231.6	226.4	230.3
72.5°	235.5	245.2	253.6	254.2	245.8	227.1	212.2	197.3	183.1	176.0	179.2
75°	178.6	185.0	193.4	195.4	183.1	170.1	155.9	140.4	129.4	121.0	122.3
77.5°	128.7	127.4	135.2	133.9	128.1	119.0	106.1	91.9	79.6	71.8	72.5
80°	88.0	89.9	94.5	93.8	86.7	80.9	71.2	59.5	50.5	44.0	42.7
82.5°	61.5	64.7	68.6	65.3	59.5	53.7	46.6	38.2	31.1	25.9	24.6
85°	22.0	25.2	29.1	31.1	33.0	31.7	26.5	21.3	15.5	12.9	12.3
87.5°	4.5	5.2	5.8	5.8	5.8	5.2	4.5	4.5	3.9	1.9	1.9
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)