

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: P527204

Luminaire Tested: **GALN-SA2B-722-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-722-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7172 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

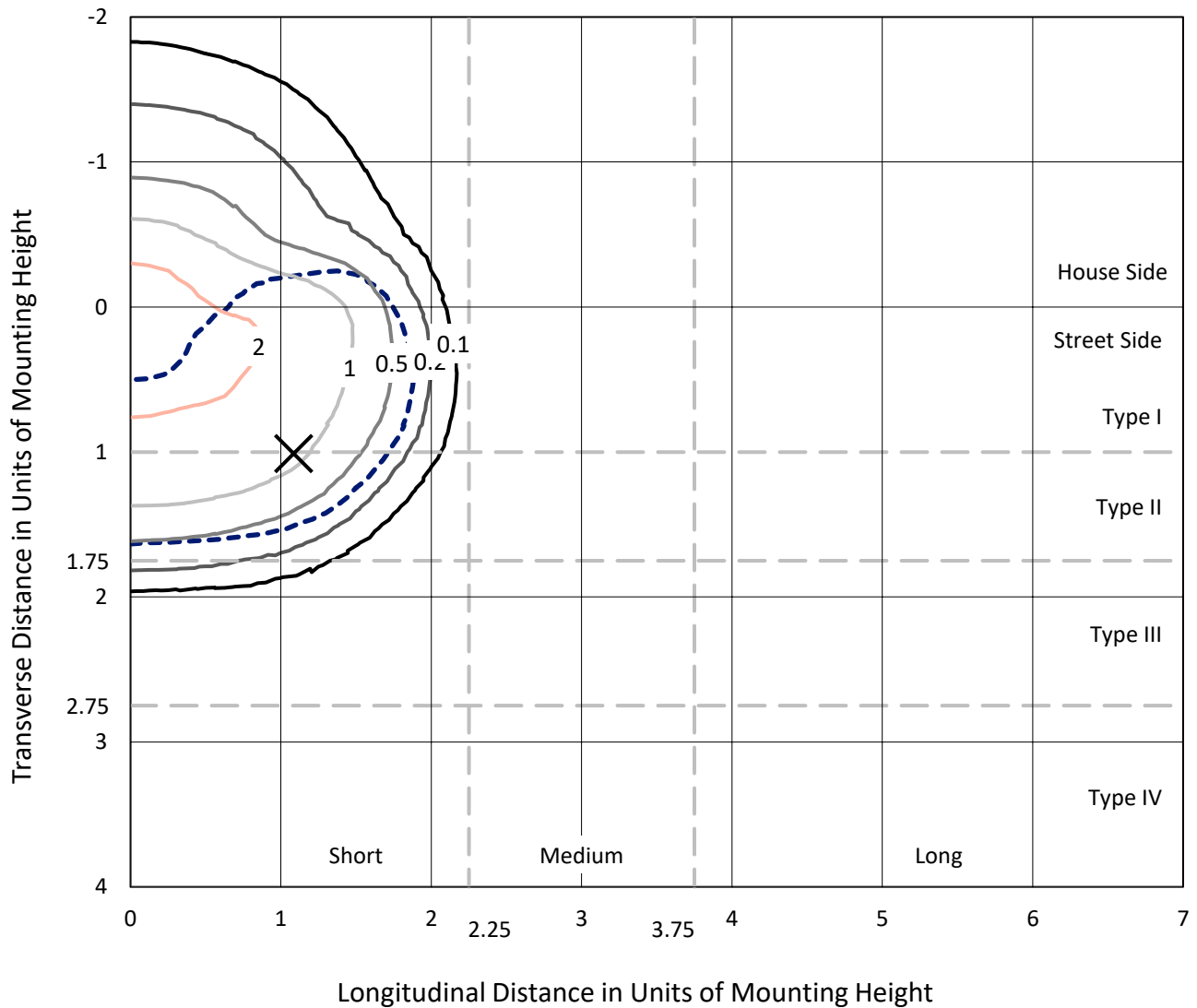
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

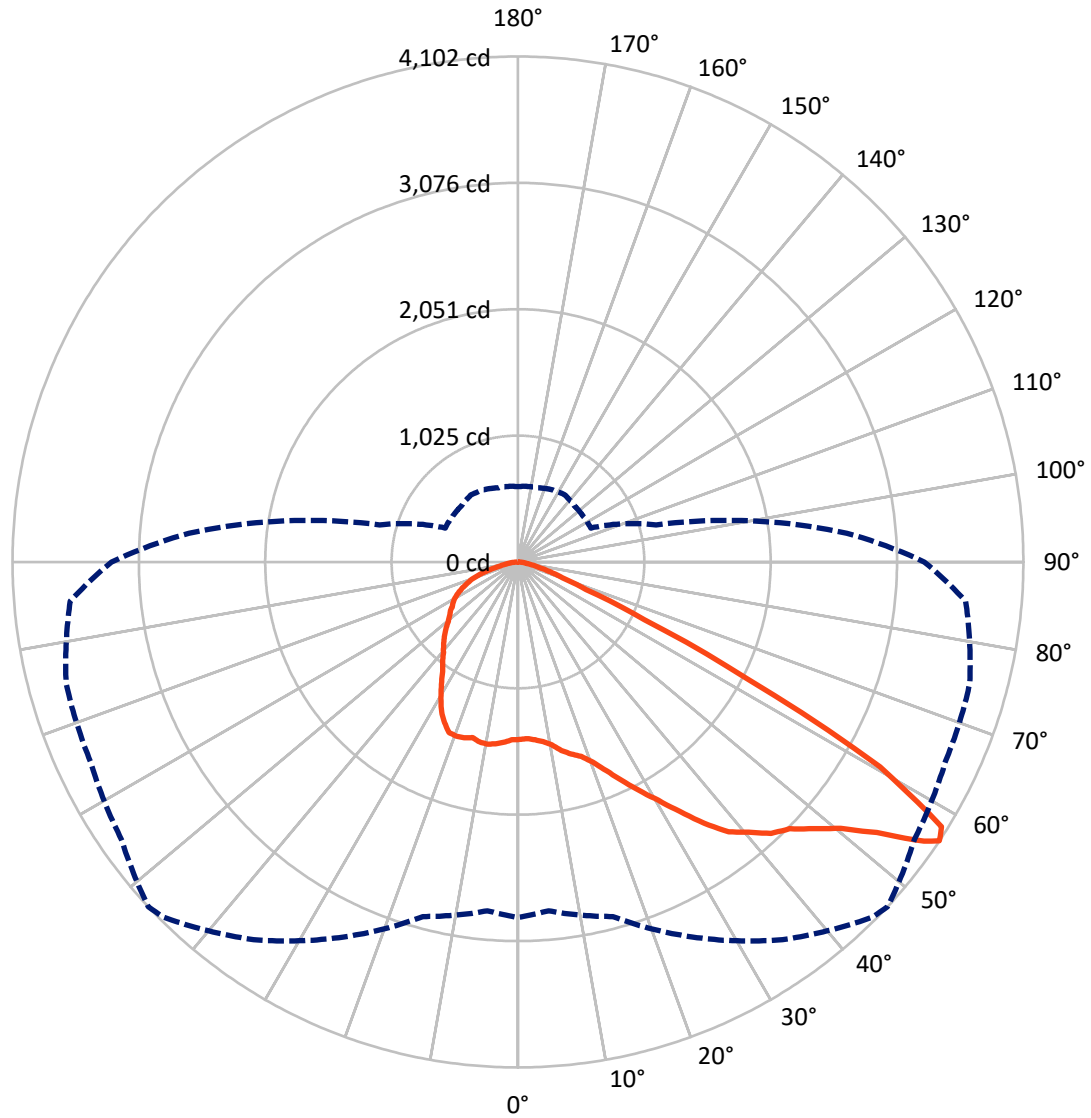
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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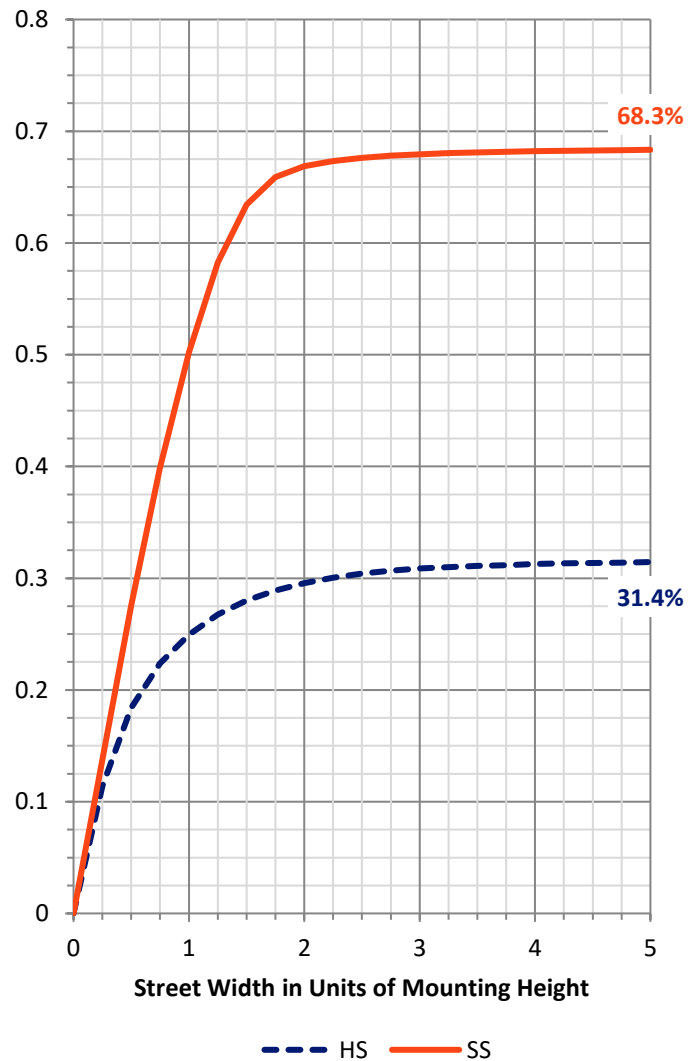
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2272.7	0.0	2272.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	4899.3	0.0	4899.3
	% Fixture	68.3	0.0	68.3
Total	Lumens	7172.0	0.0	7172.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	2.0
10°-20°	442.8	6.2
20°-30°	782.8	10.9
30°-40°	1175.7	16.4
40°-50°	1613.5	22.5
50°-60°	1922.3	26.8
60°-70°	822.6	11.5
70°-80°	232.8	3.2
80°-90°	39.2	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°	7172.0	100.0
0°-180°	7172.0	100.0



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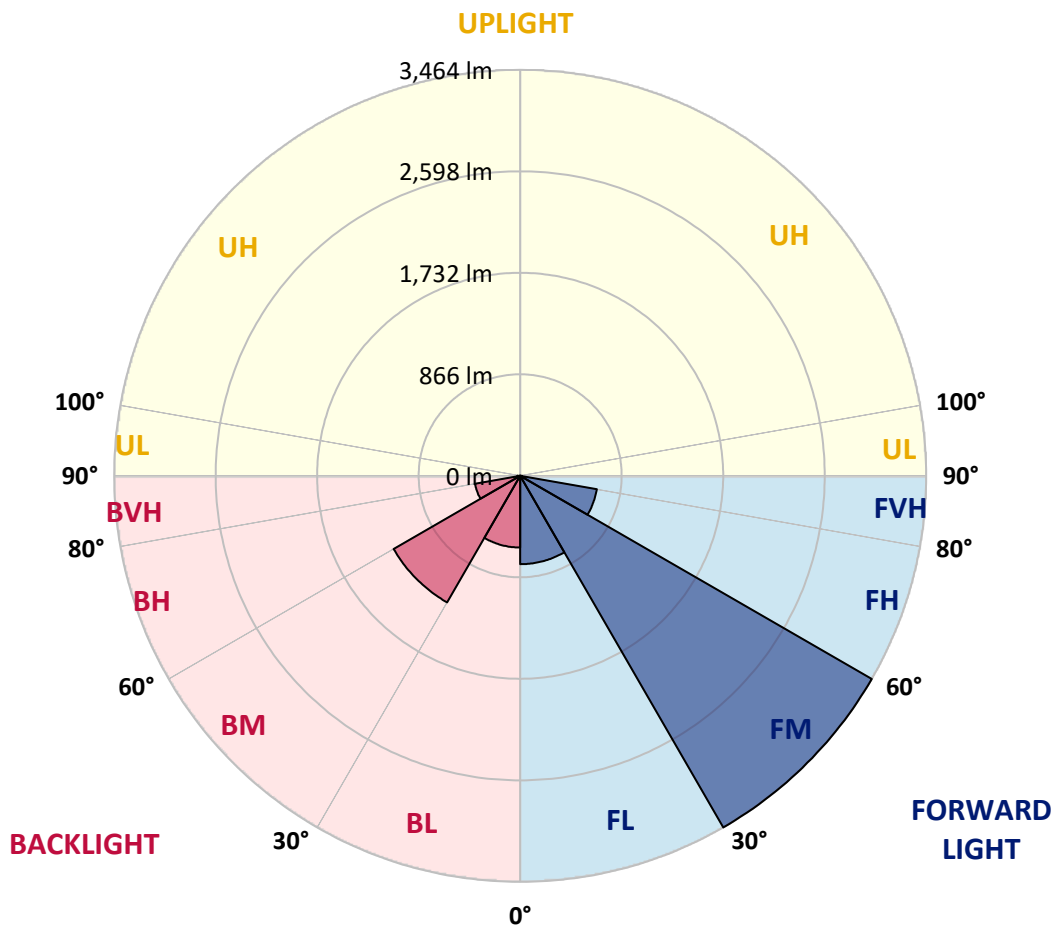
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	754.0	10.5			
FM (30°-60°)	3464.2	48.3			
FH (60°-80°)	664.4	9.3			G1/1800
FVH (80°-90°)	16.6	0.2			G1/100
BL (0°-30°)	611.9	8.5	B2/1000		
BM (30°-60°)	1247.2	17.4	B2/2500		
BH (60°-80°)	391.0	5.5	B1/500		G1/500
BVH (80°-90°)	22.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1440.6	1440.6	1440.6	1440.6	1440.6	1440.6	1440.6	1440.6	1440.6	1440.6	1440.6
2.5°	1435.1	1432.4	1430.6	1445.2	1439.7	1440.6	1435.1	1440.6	1444.3	1436.1	1448.0
5°	1432.4	1440.6	1433.3	1437.9	1449.8	1446.1	1449.8	1460.8	1458.0	1455.3	1451.6
7.5°	1458.0	1458.9	1464.4	1466.2	1469.9	1466.2	1471.7	1481.8	1479.1	1463.5	1465.3
10°	1494.6	1496.4	1497.3	1507.4	1513.8	1514.7	1508.3	1499.2	1498.3	1519.3	1504.7
12.5°	1536.7	1532.1	1543.1	1546.7	1554.1	1562.3	1570.5	1551.3	1563.2	1564.1	1546.7
15°	1598.0	1602.5	1589.7	1589.7	1592.5	1593.4	1616.3	1607.1	1605.3	1595.2	1602.5
17.5°	1689.4	1658.3	1657.4	1644.6	1642.8	1650.1	1658.3	1665.7	1690.3	1670.2	1630.9
20°	1756.2	1763.5	1737.0	1721.4	1724.2	1740.7	1732.4	1765.4	1782.7	1749.8	1711.4
22.5°	1874.2	1849.5	1855.9	1821.1	1823.9	1841.3	1840.4	1874.2	1884.3	1832.1	1776.3
25°	1953.8	1947.4	1952.9	1925.4	1929.1	1942.8	1964.8	2020.6	2004.1	1946.5	1817.5
27.5°	2069.9	2057.1	2052.6	2042.5	2038.8	2075.4	2101.0	2160.5	2148.6	2064.5	1890.7
30°	2188.9	2180.6	2185.2	2144.0	2158.7	2236.4	2243.7	2325.1	2319.7	2171.5	1972.1
32.5°	2271.2	2275.7	2284.0	2261.1	2326.1	2388.3	2413.0	2505.3	2509.9	2355.3	2129.4
35°	2403.8	2388.3	2392.8	2419.4	2449.5	2563.0	2603.2	2664.5	2702.9	2548.3	2280.3
37.5°	2487.0	2503.5	2484.3	2526.4	2605.0	2741.3	2777.9	2841.0	2881.3	2738.6	2486.1
40°	2616.9	2590.4	2604.1	2634.3	2714.8	2892.3	2882.2	2947.1	2959.9	2900.5	2678.2
42.5°	2756.9	2744.1	2724.9	2793.5	2861.2	2990.1	3010.2	2980.1	3045.0	3058.7	2952.6
45°	2924.3	2939.8	2942.6	2944.4	3003.8	3116.3	3088.9	3062.4	3137.4	3237.1	3122.8
47.5°	3079.8	3030.4	3066.0	3115.4	3199.6	3200.5	3232.5	3169.4	3249.0	3337.7	3276.4
50°	3131.9	3108.1	3155.7	3249.0	3378.9	3392.6	3396.2	3306.6	3347.8	3418.2	3329.5
52.5°	3111.8	3103.5	3225.2	3369.7	3560.0	3629.5	3647.8	3537.1	3560.0	3528.0	3446.6
55°	3015.7	3040.4	3163.0	3457.5	3749.3	3964.3	3999.0	3859.1	3713.6	3738.3	3648.7
56°	2884.0	2841.0	2978.2	3357.8	3741.1	4073.1	4101.5	3926.8	3828.0	3796.0	3646.9
57.5°	2446.8	2391.0	2571.2	3021.2	3533.4	4032.0	4053.0	3955.1	3808.8	3743.8	3380.7
60°	1432.4	1459.8	1688.5	2083.7	2725.8	3305.7	3376.1	3447.5	3349.6	3058.7	2516.3
62.5°	691.5	674.1	837.9	1194.6	1661.1	2110.2	2089.2	2289.5	2399.2	2173.3	1588.8
65°	362.2	360.4	457.3	652.2	912.9	1108.6	1127.8	1235.7	1386.7	1119.6	806.8
67.5°	266.2	273.5	322.0	458.3	587.2	599.1	596.4	650.3	665.0	562.5	495.8
70°	208.5	212.2	247.9	348.5	437.2	391.5	383.3	389.7	432.6	450.9	429.0
72.5°	150.9	154.6	184.8	235.1	273.5	267.1	272.6	308.3	361.3	380.5	357.6
75°	100.6	103.4	119.8	143.6	161.9	174.7	184.8	225.9	275.3	286.3	275.3
77.5°	69.5	72.3	83.2	101.5	103.4	111.6	115.3	134.5	164.6	178.4	171.0
80°	39.3	39.3	44.8	52.1	64.0	75.0	76.8	92.4	106.1	115.3	117.1
82.5°	18.3	19.2	23.8	32.0	42.1	52.1	54.0	64.0	74.1	83.2	86.0
85°	9.1	10.1	13.7	19.2	25.6	31.1	30.2	31.1	32.9	31.1	32.0
87.5°	2.7	2.7	3.7	4.6	3.7	4.6	4.6	5.5	6.4	7.3	8.2
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°	1440.6	1440.6	1440.6	1440.6	1440.6	1440.6	1440.6	1440.6	1440.6	1440.6	1440.6
2.5°	1448.9	1451.6	1433.3	1450.7	1444.3	1443.4	1456.2	1454.4	1458.9	1457.1	1446.1
5°	1449.8	1443.4	1462.6	1445.2	1453.4	1470.8	1458.9	1486.4	1472.7	1481.8	1461.7
7.5°	1478.1	1480.0	1476.3	1483.6	1480.0	1488.2	1481.8	1488.2	1477.2	1478.1	1496.4
10°	1502.8	1497.3	1503.8	1494.6	1501.0	1498.3	1483.6	1479.1	1482.7	1478.1	1490.0
12.5°	1548.6	1538.5	1533.9	1523.0	1515.6	1488.2	1465.3	1452.5	1469.9	1472.7	1467.2
15°	1595.2	1596.1	1575.1	1550.4	1504.7	1463.5	1469.0	1473.6	1473.6	1480.9	1467.2
17.5°	1624.5	1624.5	1605.3	1555.9	1509.2	1485.5	1480.0	1465.3	1452.5	1450.7	1449.8
20°	1675.7	1660.2	1616.3	1555.0	1507.4	1496.4	1455.3	1420.5	1394.0	1384.8	1383.9
22.5°	1734.3	1694.9	1633.6	1556.8	1504.7	1489.1	1412.3	1360.1	1312.6	1292.5	1295.2
25°	1788.2	1725.1	1643.7	1548.6	1494.6	1419.6	1333.6	1261.4	1212.0	1195.5	1187.3
27.5°	1825.7	1757.1	1643.7	1555.9	1457.1	1341.9	1254.0	1161.7	1118.7	1107.7	1109.5
30°	1876.0	1797.4	1672.1	1540.3	1382.1	1241.2	1136.0	1075.7	1050.1	1040.9	1047.3
32.5°	1994.0	1902.6	1711.4	1502.8	1293.4	1140.6	1055.6	1021.7	984.2	965.9	959.5
35°	2122.1	2002.3	1749.8	1439.7	1193.7	1049.1	996.1	965.0	920.2	900.1	903.7
37.5°	2303.2	2130.3	1752.5	1335.4	1085.7	997.9	949.4	901.0	864.4	833.3	824.1
40°	2547.4	2305.0	1746.1	1225.7	998.8	937.6	901.9	841.5	800.4	778.4	783.0
42.5°	2762.4	2509.9	1719.6	1101.3	920.2	896.4	856.1	796.7	756.4	733.6	731.8
45°	2943.5	2660.8	1669.3	995.2	854.3	850.7	804.0	758.3	726.3	705.2	714.4
47.5°	3110.9	2782.5	1593.4	889.1	794.0	801.3	756.4	728.1	708.0	688.8	687.8
50°	3171.2	2780.7	1526.6	801.3	745.5	741.8	740.0	709.8	688.8	672.3	679.6
52.5°	3271.8	2811.8	1454.4	740.9	701.6	702.5	708.9	686.9	663.2	653.1	662.2
55°	3416.4	2816.3	1295.2	670.5	665.0	671.4	671.4	656.7	636.6	628.4	623.8
56°	3298.4	2680.0	1161.7	652.2	646.7	646.7	664.1	647.6	622.9	616.5	611.0
57.5°	3042.3	2348.0	972.3	630.2	622.0	634.8	643.9	626.6	603.7	594.5	600.0
60°	2098.3	1588.8	730.8	582.7	582.7	603.7	611.0	585.4	575.3	574.4	567.1
62.5°	1224.8	925.7	571.7	539.7	541.5	558.9	564.4	549.7	536.9	552.5	559.8
65°	649.4	552.5	490.3	493.9	494.8	508.6	532.3	531.4	530.5	535.1	536.0
67.5°	470.2	459.2	445.5	441.8	443.6	453.7	477.5	495.8	494.8	483.9	475.6
70°	418.9	403.4	395.1	396.1	388.7	400.6	419.8	431.7	410.7	397.9	392.4
72.5°	348.5	343.9	338.4	339.4	324.7	322.0	300.0	300.0	294.5	290.9	297.3
75°	266.2	264.3	267.1	262.5	247.0	230.5	217.7	205.8	187.5	180.2	176.5
77.5°	168.3	173.8	180.2	170.1	163.7	151.8	139.0	127.1	112.5	104.3	104.3
80°	114.3	118.9	123.5	121.7	114.3	103.4	93.3	80.5	70.4	64.0	63.1
82.5°	86.9	90.6	97.0	89.6	82.3	73.2	64.9	55.8	46.6	39.3	39.3
85°	31.1	35.7	39.3	43.0	45.7	46.6	40.2	32.9	26.5	21.0	20.1
87.5°	8.2	9.1	10.1	9.1	9.1	9.1	10.1	9.1	8.2	6.4	6.4
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)