

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: P646720

Luminaire Tested: **GALN-SA1C-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646720  
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-835-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 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: 4721.5 lumens  
Efficiency: N/A  
Efficacy: 82.8 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

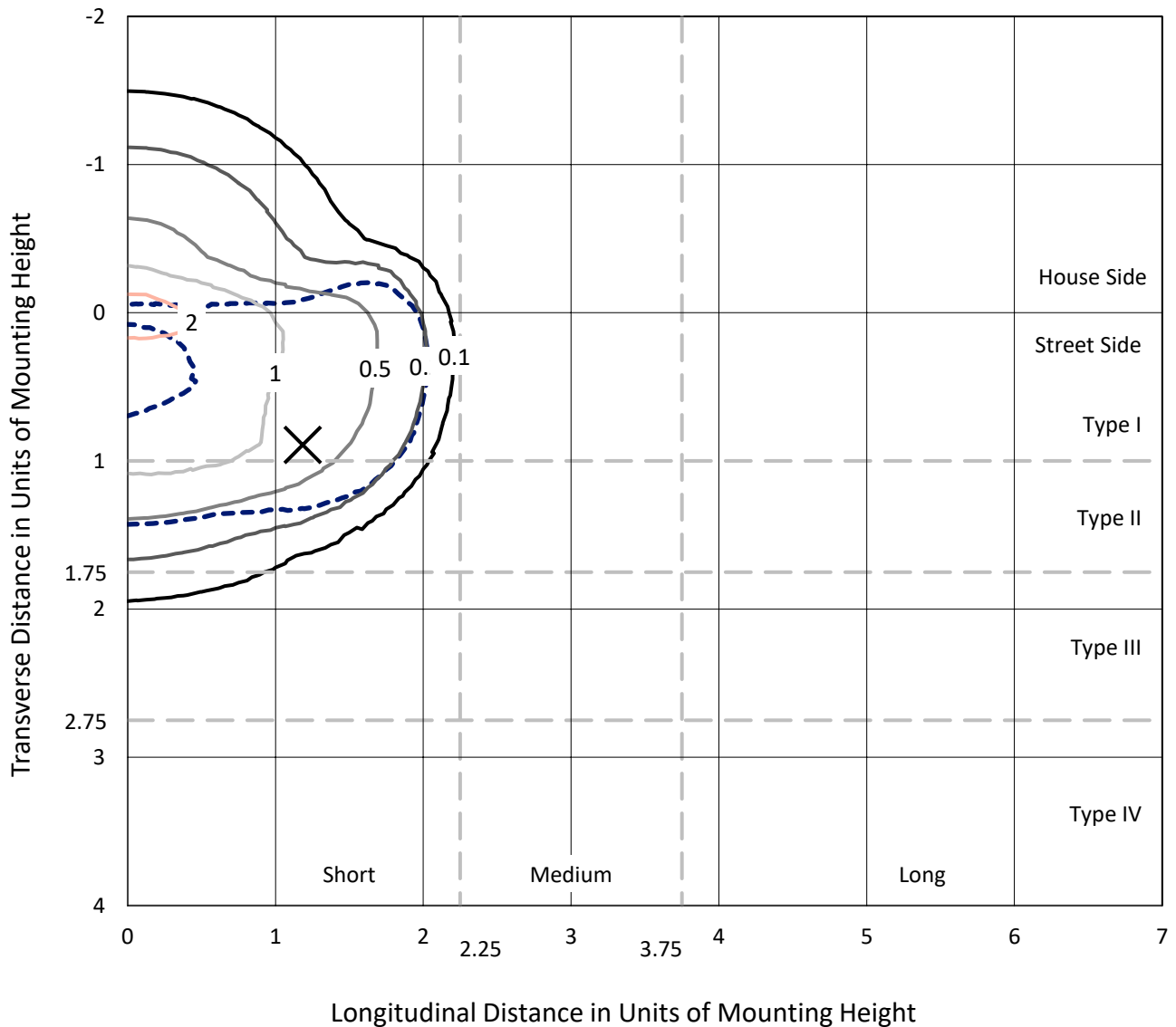
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

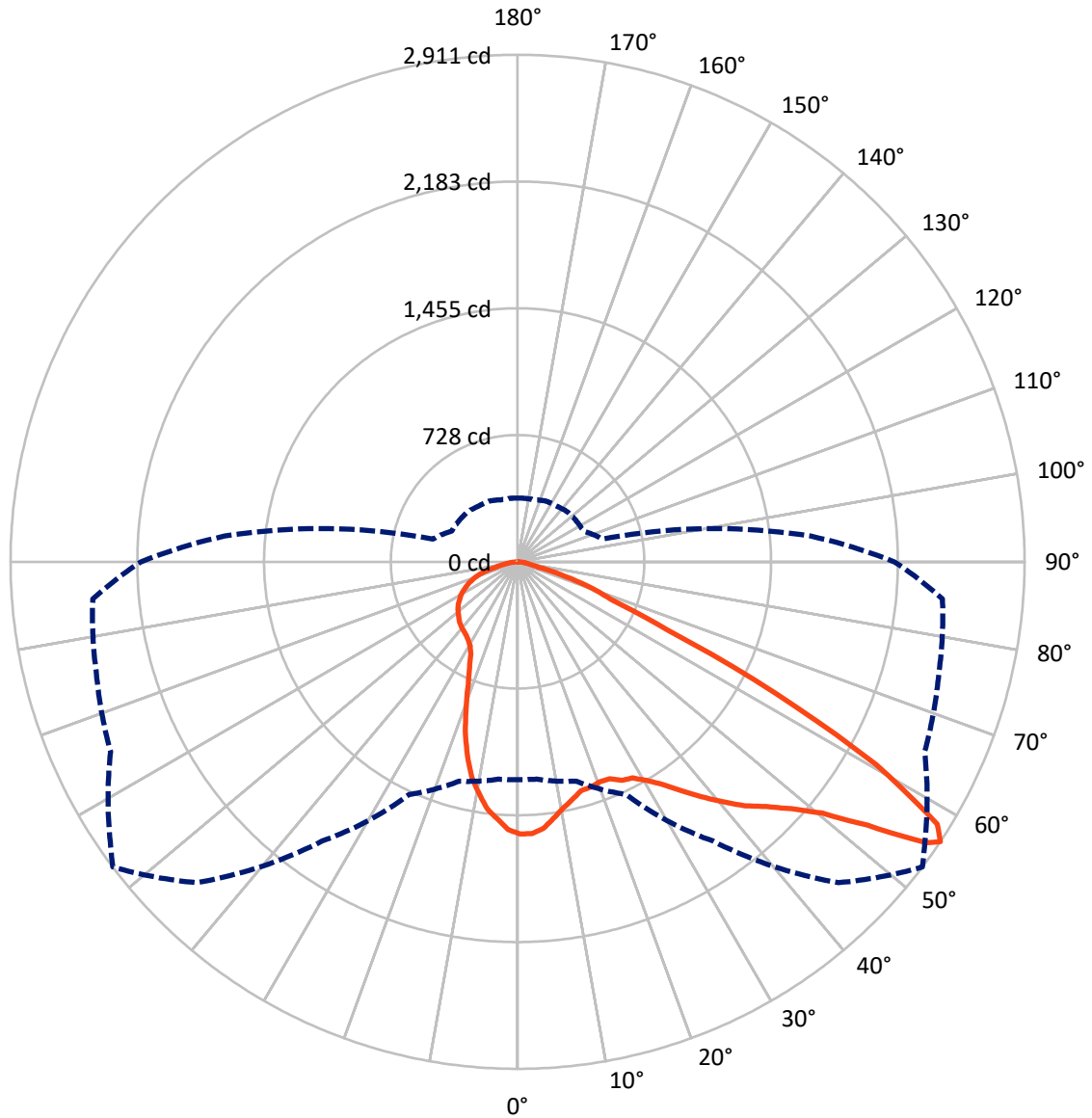
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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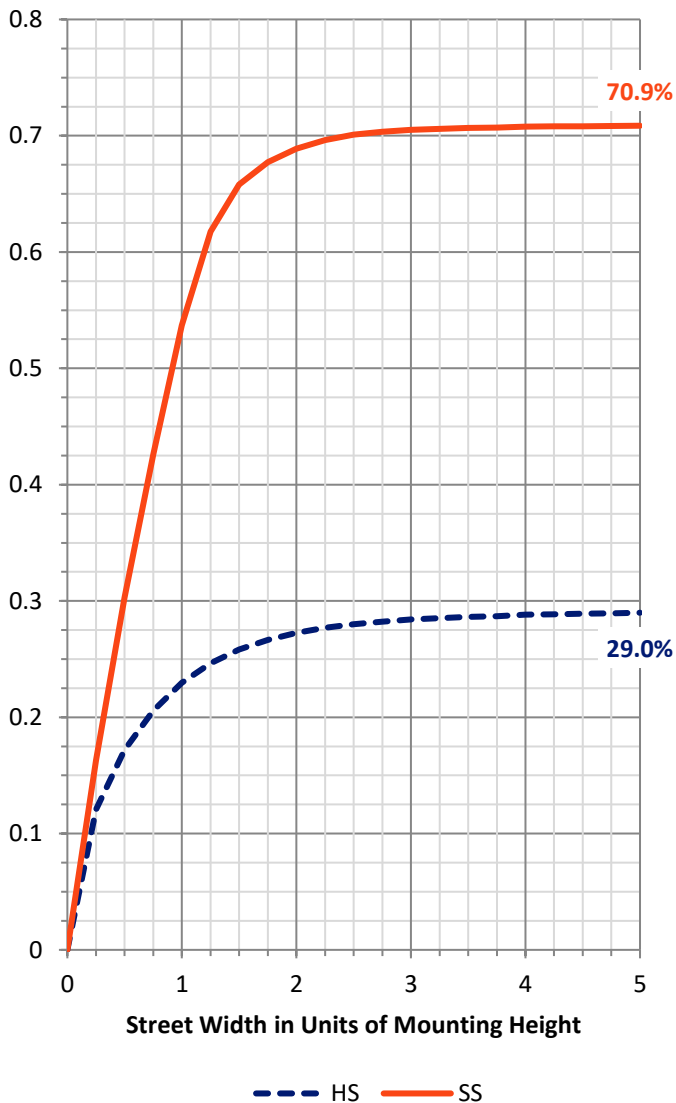
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1377.8	0.0	1377.8
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	3343.7	0.0	3343.7
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	4721.5	0.0	4721.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.3	2.9
10°-20°	345.4	7.3
20°-30°	509.3	10.8
30°-40°	727.7	15.4
40°-50°	1001.6	21.2
50°-60°	1183.6	25.1
60°-70°	630.8	13.4
70°-80°	160.0	3.4
80°-90°	25.0	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°	4721.5	100.0
0°-180°	4721.5	100.0

**Coefficient of Utilization**



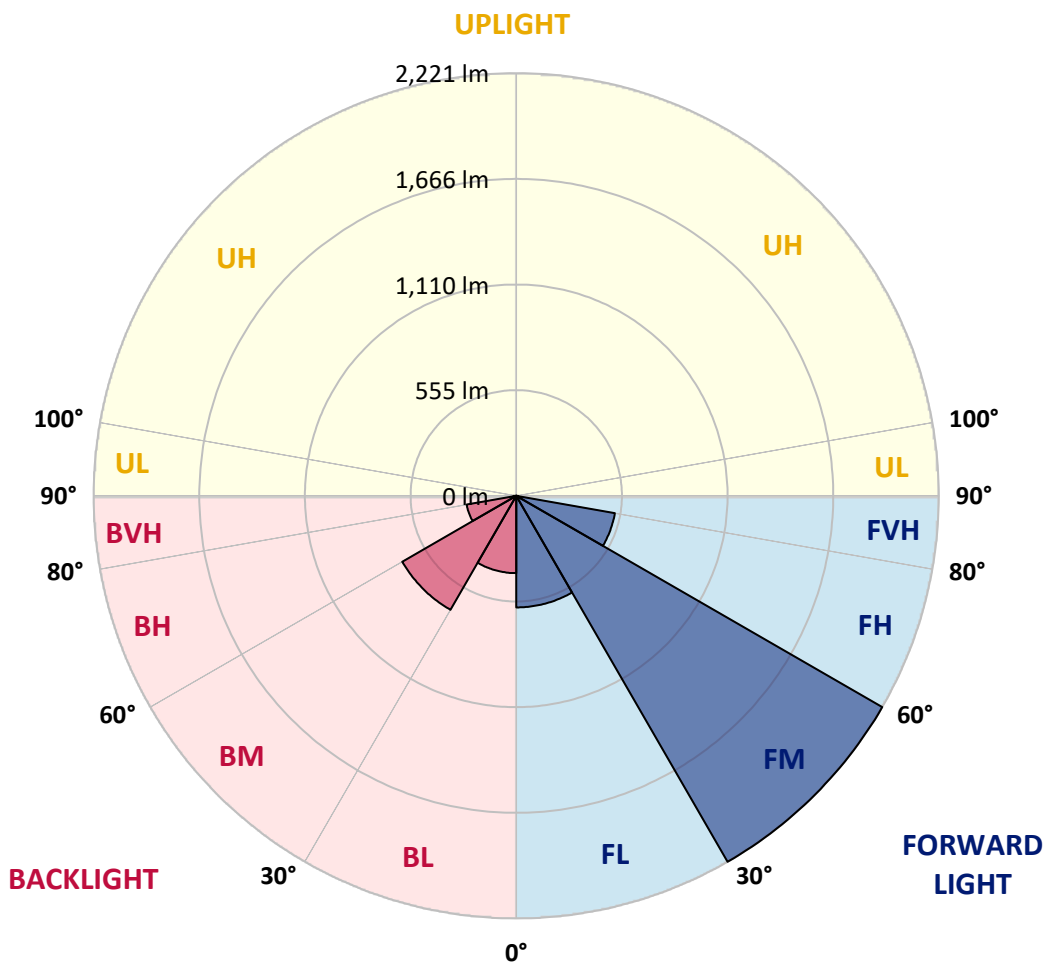
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.6	12.4			
FM (30°-60°)	2220.9	47.0			
FH (60°-80°)	526.1	11.1			G0/660
FVH (80°-90°)	10.0	0.2			G1/100
BL (0°-30°)	406.4	8.6	B1/500		
BM (30°-60°)	691.9	14.7	B1/1000		
BH (60°-80°)	264.6	5.6	B1/500		G1/500
BVH (80°-90°)	14.9	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°	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1
2.5°	1542.7	1529.4	1537.2	1534.2	1559.0	1566.3	1562.6	1565.7	1579.6	1573.0	1559.0
5°	1441.5	1460.3	1463.9	1473.1	1487.5	1516.0	1538.4	1544.5	1551.1	1582.1	1579.0
7.5°	1349.4	1362.2	1355.5	1382.2	1413.6	1459.7	1486.9	1491.8	1553.0	1569.9	1582.7
10°	1291.3	1278.6	1308.9	1316.1	1351.8	1404.5	1437.3	1457.2	1513.0	1580.3	1588.1
12.5°	1237.4	1233.1	1251.3	1271.9	1311.9	1366.4	1399.8	1407.6	1493.7	1564.5	1601.4
15°	1197.4	1192.6	1210.8	1225.9	1272.5	1321.0	1363.4	1385.8	1472.4	1555.4	1589.9
17.5°	1166.0	1165.3	1175.6	1202.9	1250.8	1291.3	1359.8	1360.9	1461.5	1569.3	1599.6
20°	1164.1	1163.5	1165.3	1195.6	1239.3	1288.9	1348.2	1359.1	1461.5	1559.7	1600.2
22.5°	1179.3	1169.6	1180.5	1199.9	1231.3	1293.1	1352.5	1376.7	1496.6	1607.5	1627.5
25°	1203.5	1205.9	1212.0	1218.7	1236.8	1302.8	1390.1	1410.0	1537.8	1648.7	1665.0
27.5°	1247.7	1246.5	1248.9	1252.6	1268.3	1311.9	1405.2	1456.7	1623.9	1722.0	1705.6
30°	1312.5	1308.2	1317.9	1330.7	1316.1	1341.0	1455.4	1494.2	1703.8	1795.8	1751.0
32.5°	1371.3	1387.0	1405.2	1410.7	1393.0	1397.9	1522.1	1561.5	1770.4	1886.7	1806.8
35°	1444.6	1457.2	1481.5	1498.4	1495.5	1480.9	1612.9	1665.0	1866.8	1953.4	1865.5
37.5°	1516.0	1531.2	1571.2	1621.4	1593.6	1586.9	1709.8	1752.8	1896.4	1989.1	1908.5
40°	1631.1	1630.5	1699.6	1725.6	1750.4	1738.9	1810.4	1824.9	1912.2	1981.2	1909.7
42.5°	1766.1	1757.7	1827.9	1868.6	1900.7	1901.8	1915.1	1910.3	1919.4	1941.2	1897.0
45°	1894.5	1912.7	1983.6	2056.3	2088.4	2092.0	2003.6	1994.5	1932.1	1929.7	1872.8
47.5°	2051.5	2055.7	2113.9	2209.5	2284.0	2258.6	2118.1	2098.0	1987.9	2006.6	1913.3
50°	2060.5	2092.0	2144.1	2256.8	2485.7	2479.1	2266.5	2228.9	2077.5	2115.7	2026.6
52.5°	1870.4	1863.1	1924.8	2109.0	2470.6	2698.3	2512.3	2422.8	2270.1	2241.0	2210.2
55°	1425.1	1442.1	1496.6	1682.6	2145.3	2701.4	2847.3	2774.0	2476.0	2426.4	2390.7
56°	1250.1	1252.6	1304.0	1473.6	1957.6	2605.0	2910.9	2851.5	2578.4	2502.7	2448.2
57.5°	1036.3	1022.4	1049.1	1141.7	1652.3	2401.5	2841.3	2899.4	2698.3	2585.1	2509.4
60°	815.9	812.8	801.9	818.9	1044.2	1809.2	2365.2	2496.0	2686.2	2507.6	2403.3
62.5°	666.3	651.1	672.9	697.1	725.6	1122.4	1662.0	1738.9	2132.6	2001.8	1805.5
65°	516.6	509.3	536.7	615.4	632.4	712.9	946.6	1006.1	1259.2	1236.8	1089.0
67.5°	355.6	356.7	380.4	500.3	586.3	579.0	579.7	610.5	657.2	488.2	425.2
70°	225.3	224.7	237.4	322.2	471.8	476.7	452.4	443.3	420.3	254.4	269.5
72.5°	144.8	140.5	147.2	178.1	244.1	282.3	290.7	296.2	243.5	199.9	216.8
75°	81.7	77.5	75.1	83.0	96.3	111.4	122.4	126.0	141.1	151.4	160.5
77.5°	24.8	22.4	27.2	36.3	47.8	64.2	78.1	80.6	95.1	107.2	116.3
80°	10.9	12.1	17.0	24.2	33.9	45.4	55.1	58.7	68.4	77.5	79.9
82.5°	6.7	7.3	11.5	16.4	23.6	32.1	39.4	40.6	50.3	57.6	59.4
85°	2.4	3.1	6.0	9.7	15.1	20.6	20.6	22.4	20.6	20.6	22.4
87.5°	0.0	0.0	0.6	1.2	1.2	1.8	2.4	2.4	3.1	3.6	4.2
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°	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1
2.5°	1566.3	1563.3	1558.4	1540.9	1539.1	1533.6	1503.3	1498.4	1503.3	1488.8	1490.0
5°	1563.3	1572.3	1536.0	1518.5	1485.7	1462.1	1434.8	1420.9	1396.1	1380.4	1397.9
7.5°	1576.6	1573.0	1527.6	1489.3	1440.3	1380.4	1332.5	1305.3	1261.6	1249.5	1258.6
10°	1571.7	1552.4	1499.1	1448.8	1356.2	1303.5	1225.9	1150.8	1109.6	1088.4	1085.4
12.5°	1565.1	1559.7	1470.6	1384.0	1286.5	1175.6	1066.6	995.7	928.5	899.4	903.7
15°	1573.0	1526.9	1417.3	1307.7	1178.0	1032.7	915.2	823.7	777.1	758.3	758.3
17.5°	1569.3	1511.2	1391.9	1222.3	1058.1	886.1	757.1	702.0	682.6	682.6	688.0
20°	1571.2	1521.4	1340.3	1136.8	916.4	746.2	652.3	632.4	640.8	643.9	646.8
22.5°	1581.4	1487.5	1290.1	1043.0	785.0	638.4	592.3	593.0	608.1	624.4	621.5
25°	1594.2	1474.2	1228.9	949.7	684.4	585.7	571.1	569.3	580.8	589.4	590.5
27.5°	1583.2	1451.2	1166.5	833.4	602.0	550.5	547.6	548.7	552.4	569.3	563.9
30°	1619.0	1457.9	1088.4	735.9	556.6	539.1	535.4	533.6	539.1	543.9	539.6
32.5°	1663.2	1434.2	1030.3	642.1	534.2	530.6	523.3	520.9	523.9	519.1	521.5
35°	1682.6	1430.0	954.6	574.8	516.6	513.6	509.3	508.8	509.3	505.1	501.5
37.5°	1693.5	1450.0	868.0	543.9	505.7	508.8	499.1	497.9	486.9	489.4	491.2
40°	1712.3	1419.1	797.7	514.2	499.1	493.1	484.5	482.7	475.4	471.2	475.4
42.5°	1685.0	1410.0	728.7	501.5	489.4	482.7	476.7	466.4	463.9	460.3	457.9
45°	1663.2	1358.0	666.9	485.8	477.9	474.3	462.8	451.9	442.8	446.4	440.9
47.5°	1679.5	1339.8	605.7	472.5	462.1	457.9	446.4	437.9	428.8	424.6	423.4
50°	1745.0	1373.7	554.2	462.8	448.8	446.4	431.3	421.6	413.1	410.1	411.2
52.5°	1901.2	1466.3	519.1	442.8	436.1	425.2	416.7	404.6	399.2	389.5	395.5
55°	2099.3	1617.2	510.0	424.0	420.3	410.7	399.2	390.1	379.8	371.9	370.0
56°	2162.9	1689.2	502.7	416.7	410.7	405.2	390.1	384.6	368.2	366.4	365.2
57.5°	2214.4	1752.8	503.9	402.8	396.7	391.9	382.8	369.5	358.5	351.9	354.9
60°	2098.0	1640.8	480.9	381.6	380.4	371.3	358.5	352.5	339.2	331.3	329.5
62.5°	1559.7	1113.8	390.1	354.3	353.7	344.1	329.5	322.8	320.4	309.5	309.5
65°	898.3	698.4	337.4	331.9	327.1	317.3	302.9	297.4	291.4	287.7	284.7
67.5°	383.4	362.2	306.5	305.8	300.4	288.3	273.7	265.3	257.5	250.2	253.8
70°	278.0	282.3	276.8	273.7	267.1	252.0	239.2	228.9	216.8	212.0	215.6
72.5°	220.5	229.6	237.4	238.0	230.1	212.6	198.6	184.7	171.4	164.7	167.8
75°	167.2	173.2	181.1	182.9	171.4	159.3	146.0	131.5	121.1	113.3	114.5
77.5°	120.5	119.3	126.6	125.4	120.0	111.4	99.4	86.0	74.5	67.3	67.8
80°	82.4	84.2	88.4	87.9	81.2	75.7	66.6	55.7	47.2	41.2	40.0
82.5°	57.6	60.6	64.2	61.2	55.7	50.3	43.6	35.7	29.0	24.2	23.0
85°	20.6	23.6	27.2	29.0	30.9	29.7	24.8	20.0	14.6	12.1	11.5
87.5°	4.2	4.9	5.5	5.5	5.5	4.9	4.2	4.2	3.6	1.8	1.8
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)