

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: P646724

Luminaire Tested: **GALN-SA1C-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
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-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4712.1 lumens
Efficiency: N/A
Efficacy: 82.7 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

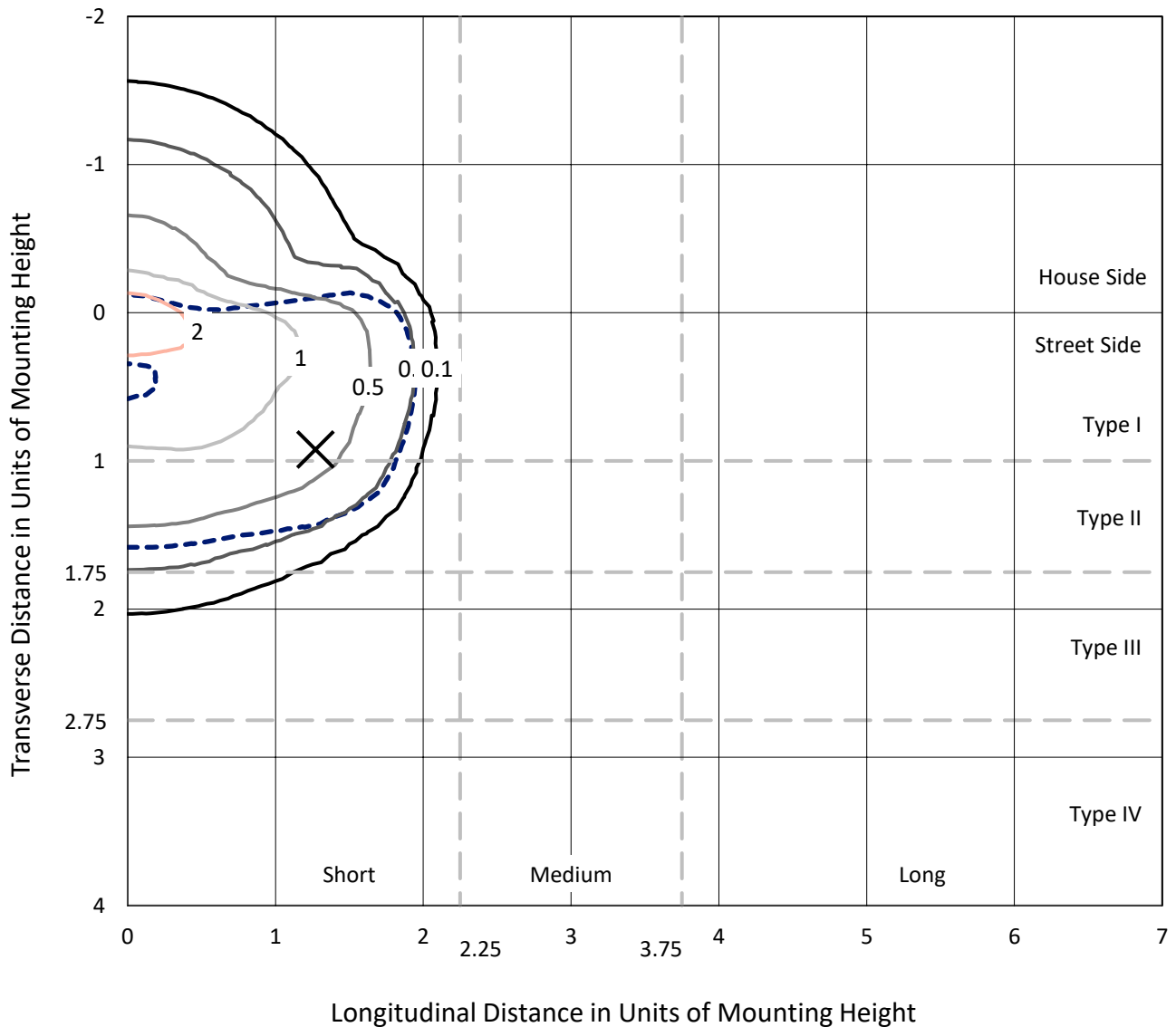
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

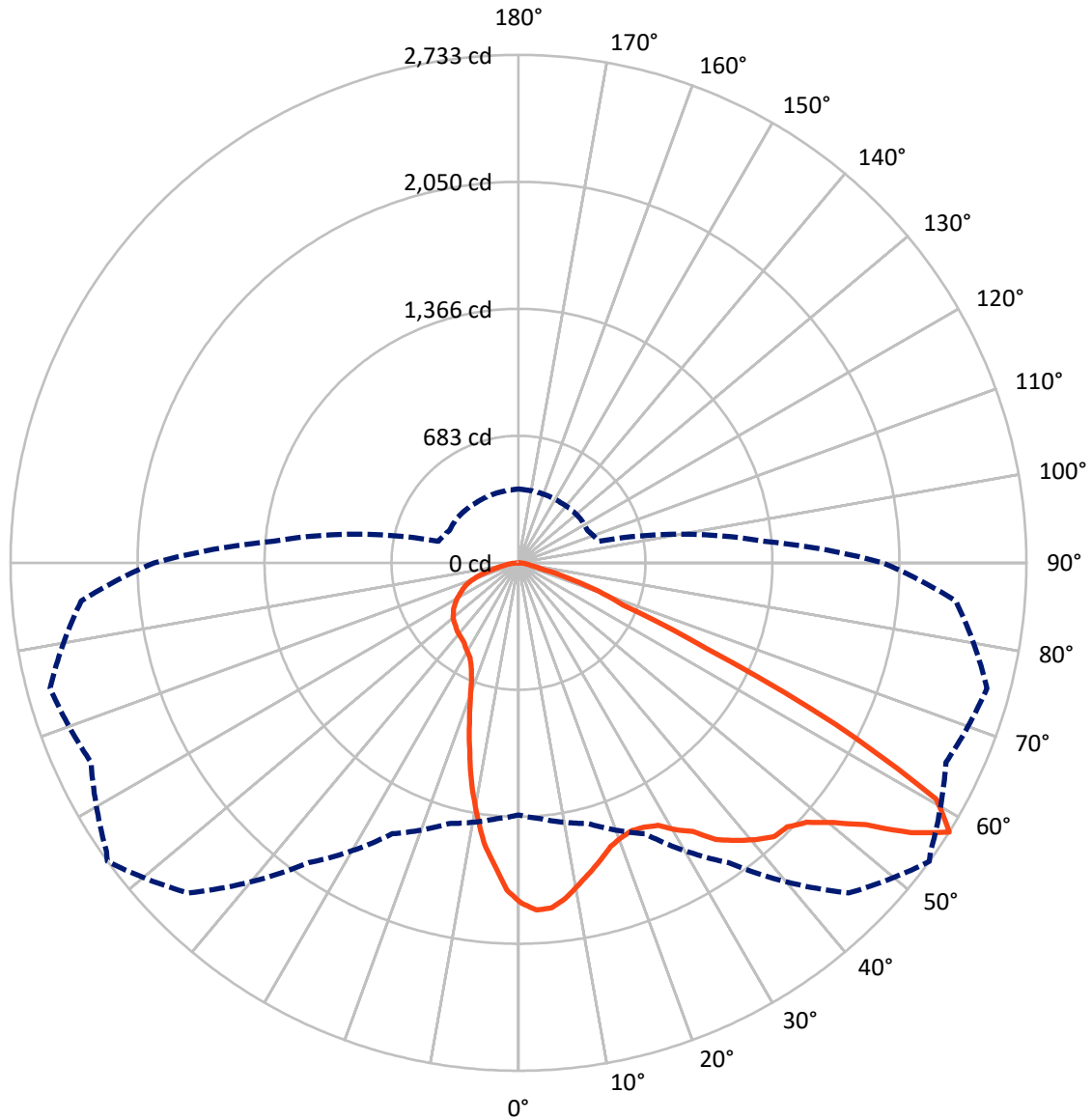
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1303.6	0.0	1303.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	3408.5	0.0	3408.5
	% Fixture	72.3	0.0	72.3
Total	Lumens	4712.1	0.0	4712.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	3.4
10°-20°	365.7	7.8
20°-30°	513.8	10.9
30°-40°	718.3	15.2
40°-50°	972.5	20.6
50°-60°	1184.6	25.1
60°-70°	617.0	13.1
70°-80°	158.1	3.4
80°-90°	24.1	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°	4712.1	100.0
0°-180°	4712.1	100.0

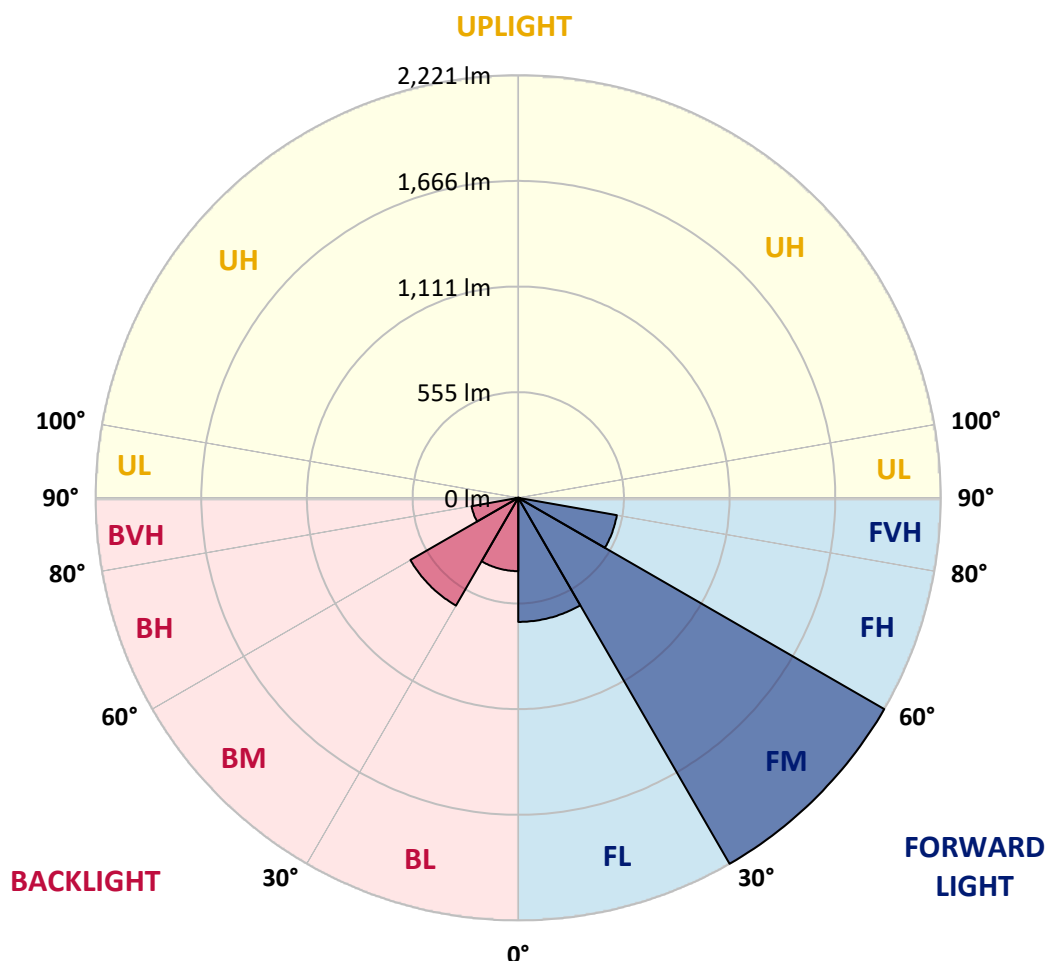


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	652.2	13.8			
FM (30°-60°)	2221.1	47.1			
FH (60°-80°)	526.0	11.2			G0/660
FVH (80°-90°)	9.1	0.2			G0/10
BL (0°-30°)	385.3	8.2	B1/500		
BM (30°-60°)	654.3	13.9	B1/1000		
BH (60°-80°)	249.1	5.3	B1/500		G1/500
BVH (80°-90°)	15.0	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°	54°	55°	65°	75°	85°
0°	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5
2.5°	1883.7	1876.4	1877.6	1887.3	1875.1	1870.3	1870.3	1846.7	1848.5	1832.1	1827.9
5°	1840.0	1823.1	1834.6	1849.1	1851.6	1856.3	1864.2	1858.2	1841.2	1823.7	1795.2
7.5°	1726.1	1741.3	1745.5	1755.8	1777.6	1797.6	1822.4	1805.5	1804.9	1787.4	1770.4
10°	1626.2	1617.1	1640.2	1655.3	1691.6	1724.9	1763.1	1761.3	1770.4	1750.4	1721.3
12.5°	1526.9	1519.6	1530.5	1565.1	1616.0	1664.3	1709.8	1692.8	1741.3	1737.6	1675.3
15°	1421.5	1426.9	1442.7	1474.8	1541.4	1599.6	1657.1	1657.7	1700.7	1715.2	1631.7
17.5°	1347.6	1341.5	1361.6	1409.4	1468.8	1538.4	1603.8	1617.1	1683.1	1691.6	1618.3
20°	1292.5	1301.0	1327.0	1351.2	1419.7	1503.9	1577.7	1582.6	1679.5	1702.6	1597.2
22.5°	1279.2	1274.3	1282.8	1322.2	1378.5	1469.9	1563.8	1582.0	1678.9	1698.9	1557.2
25°	1265.2	1281.0	1280.4	1319.7	1360.9	1442.7	1575.3	1595.4	1711.0	1717.7	1562.6
27.5°	1296.7	1294.9	1311.8	1314.9	1365.8	1450.0	1599.6	1614.7	1764.3	1758.9	1566.9
30°	1328.2	1319.1	1329.5	1365.2	1388.8	1491.8	1666.2	1665.0	1833.3	1829.7	1580.2
32.5°	1367.0	1362.7	1369.4	1400.9	1440.9	1547.4	1722.5	1758.2	1903.6	1926.6	1626.2
35°	1374.2	1391.9	1407.6	1450.0	1506.9	1637.7	1828.5	1858.2	1984.7	2056.9	1714.1
37.5°	1420.3	1426.9	1463.9	1539.0	1591.1	1758.2	1895.7	1914.5	2058.7	2140.4	1806.7
40°	1469.4	1477.2	1533.0	1611.6	1683.1	1837.0	1958.8	1964.8	2082.3	2204.6	1867.3
42.5°	1535.9	1543.2	1598.3	1697.1	1792.8	1904.3	2014.4	2021.1	2080.4	2278.5	1963.6
45°	1605.0	1622.6	1687.4	1799.4	1885.5	1982.9	2027.2	2054.4	2097.4	2344.5	2041.7
47.5°	1701.9	1718.3	1771.5	1881.2	1981.8	2052.0	2085.9	2112.5	2138.0	2402.1	2091.9
50°	1804.9	1807.9	1872.7	1972.1	2046.0	2130.2	2195.5	2204.6	2191.3	2468.7	2177.4
52.5°	1880.6	1890.3	1940.6	2037.4	2147.7	2251.3	2340.9	2350.6	2324.6	2493.5	2206.4
55°	1755.3	1749.8	1831.5	1960.6	2216.1	2431.8	2562.0	2569.3	2421.4	2570.4	2301.6
57.5°	1356.7	1382.7	1452.4	1608.0	1969.0	2511.7	2732.7	2706.8	2537.8	2609.2	2362.1
60°	986.0	980.0	1026.6	1130.8	1483.9	2164.7	2583.7	2610.4	2442.6	2351.8	1947.8
62.5°	803.1	794.7	798.3	801.9	957.5	1436.6	1912.7	1912.1	1881.2	1690.4	1313.7
65°	642.0	662.0	663.8	691.1	711.0	858.2	1108.3	1167.7	1016.9	834.0	605.0
67.5°	483.9	476.7	500.9	597.8	635.3	619.6	605.0	611.8	434.9	313.7	295.6
70°	285.2	282.3	311.3	416.7	523.3	492.4	456.1	456.6	298.6	219.2	244.1
72.5°	156.3	155.7	161.7	211.4	297.4	308.9	273.7	282.3	178.1	177.4	190.8
75°	87.2	85.4	83.5	93.3	107.2	113.2	115.6	116.9	122.4	136.9	142.3
77.5°	32.1	30.9	30.9	35.7	45.4	56.9	72.0	73.3	86.6	99.4	104.8
80°	10.9	12.1	16.4	22.4	30.3	40.6	49.1	50.3	61.2	69.7	71.5
82.5°	6.7	7.3	10.9	15.7	21.8	28.5	36.3	37.0	45.4	50.9	53.3
85°	3.1	3.6	6.0	9.7	13.9	18.8	19.4	19.4	18.8	19.4	18.2
87.5°	0.0	0.0	1.2	1.2	1.2	1.8	2.4	1.8	3.1	3.6	3.6
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°	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5
2.5°	1815.2	1808.5	1787.9	1769.7	1764.3	1740.1	1704.4	1708.6	1682.5	1694.6	1682.0
5°	1790.3	1767.9	1715.2	1692.8	1634.1	1607.4	1589.3	1543.8	1522.6	1518.4	1500.2
7.5°	1726.7	1712.8	1646.8	1586.3	1523.9	1470.6	1402.1	1355.5	1322.2	1313.1	1286.5
10°	1676.5	1645.6	1554.2	1462.1	1373.1	1280.4	1191.3	1121.7	1087.7	1048.4	1035.0
12.5°	1626.8	1580.2	1456.6	1338.5	1223.4	1106.5	998.7	913.9	840.1	822.5	816.4
15°	1595.9	1514.8	1369.4	1227.1	1063.5	910.9	803.1	747.4	702.0	683.2	696.5
17.5°	1555.4	1460.8	1285.8	1096.3	916.3	775.9	685.6	651.1	634.8	636.6	631.1
20°	1504.5	1410.0	1176.2	977.6	785.0	672.9	621.4	608.7	611.1	615.4	613.6
22.5°	1468.1	1348.2	1096.8	856.4	678.3	616.0	594.8	585.7	593.6	597.2	594.1
25°	1440.3	1295.6	1000.6	749.2	616.5	583.9	574.2	573.5	585.7	590.5	587.5
27.5°	1414.8	1246.5	904.8	667.4	575.3	559.1	556.0	563.3	571.1	576.0	580.2
30°	1399.7	1208.9	815.3	599.0	554.8	546.9	541.4	548.1	552.4	557.2	554.8
32.5°	1414.3	1182.3	728.6	560.2	537.8	529.9	537.2	533.0	540.3	544.5	537.8
35°	1459.7	1158.6	666.8	539.6	518.4	521.5	522.7	520.9	523.9	520.3	528.1
37.5°	1504.5	1150.1	609.9	522.1	509.3	509.3	508.2	504.5	510.6	509.3	513.0
40°	1561.4	1155.6	561.5	503.3	500.9	499.7	494.9	494.2	491.8	492.4	493.6
42.5°	1611.1	1167.7	533.6	491.2	493.0	495.4	486.3	479.1	482.1	476.1	476.1
45°	1663.8	1178.6	508.8	482.7	480.9	480.3	473.0	468.8	466.4	467.0	472.4
47.5°	1746.7	1194.4	490.0	471.2	472.4	463.3	461.5	456.1	458.5	462.1	462.8
50°	1805.5	1227.7	475.4	457.9	462.1	456.1	445.1	442.7	442.7	448.8	447.6
52.5°	1846.7	1274.3	461.5	443.3	445.1	440.3	436.7	431.2	427.6	436.1	440.3
55°	1972.7	1351.8	457.9	431.2	430.6	425.8	419.1	413.7	411.9	413.0	421.6
57.5°	1960.6	1327.7	446.4	410.1	408.8	402.1	395.5	393.7	393.1	394.3	396.7
60°	1591.7	980.6	398.5	385.8	384.0	382.8	376.2	368.9	365.2	368.9	365.8
62.5°	1053.3	656.5	351.3	356.7	358.0	354.9	344.1	336.8	337.9	342.2	335.5
65°	517.2	385.8	318.6	333.1	334.3	325.9	315.5	307.1	302.9	306.5	303.4
67.5°	295.6	295.0	291.9	307.1	306.5	298.0	281.6	274.4	267.1	268.3	266.5
70°	250.7	255.6	261.7	270.8	270.1	260.4	241.1	235.6	225.3	224.1	221.0
72.5°	197.5	205.9	219.2	225.9	220.5	208.4	195.6	186.5	177.4	172.0	173.8
75°	146.6	158.7	165.9	170.2	161.7	155.0	144.8	133.8	122.9	118.1	116.3
77.5°	106.6	110.2	116.9	120.0	114.5	107.8	101.8	90.8	80.6	73.9	72.0
80°	74.5	76.9	81.7	81.7	81.7	78.8	70.9	60.0	53.3	47.2	46.0
82.5°	52.1	54.5	59.4	56.9	56.3	52.7	47.8	39.4	32.1	27.9	26.6
85°	18.2	20.0	24.2	29.0	30.9	30.3	27.2	21.8	17.0	13.9	12.7
87.5°	4.2	4.2	4.9	4.2	4.2	4.9	4.2	4.2	4.2	3.1	2.4
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)