

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631042

Luminaire Tested: GWS-SA1E-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-830-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5306.5 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

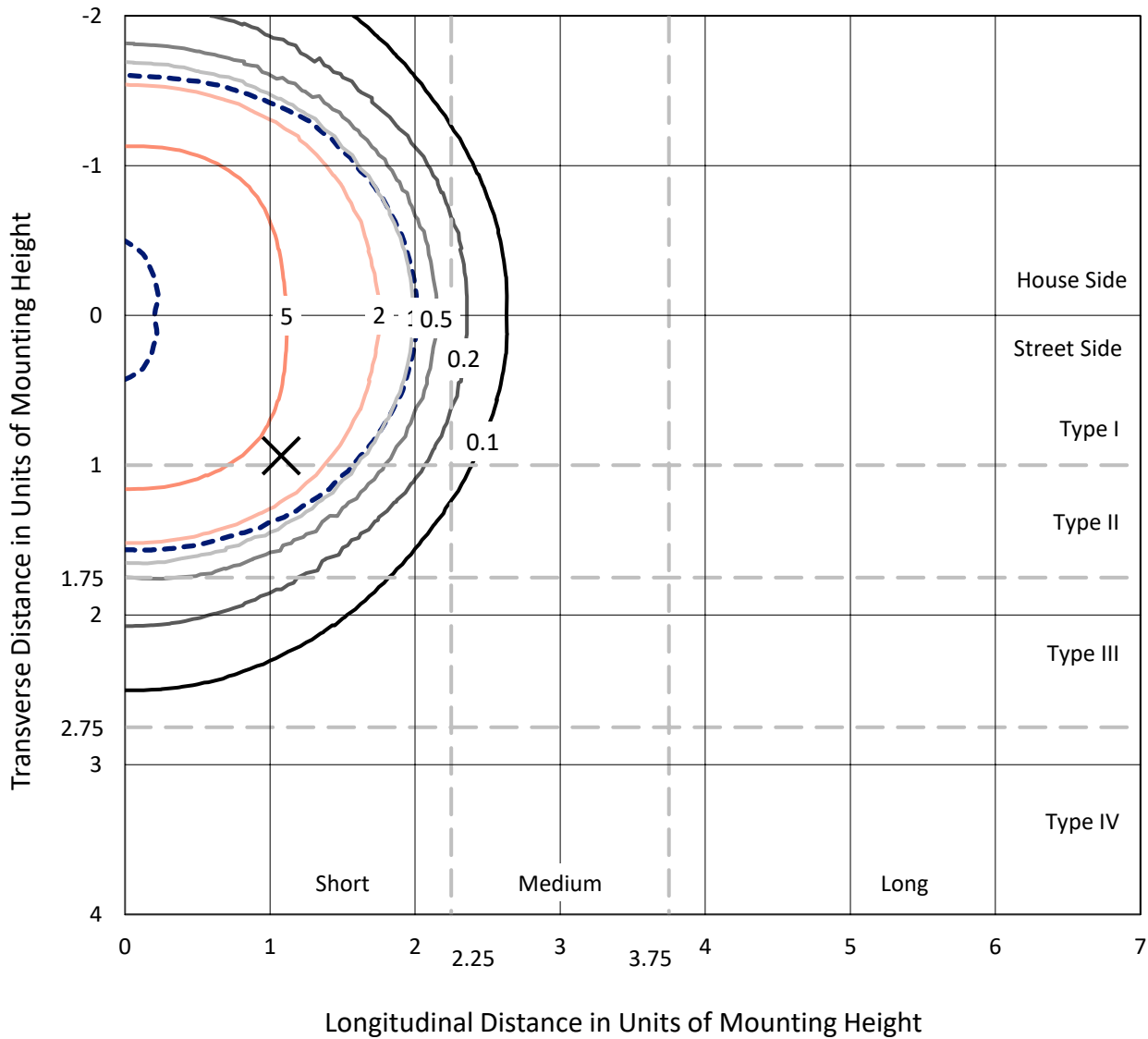
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

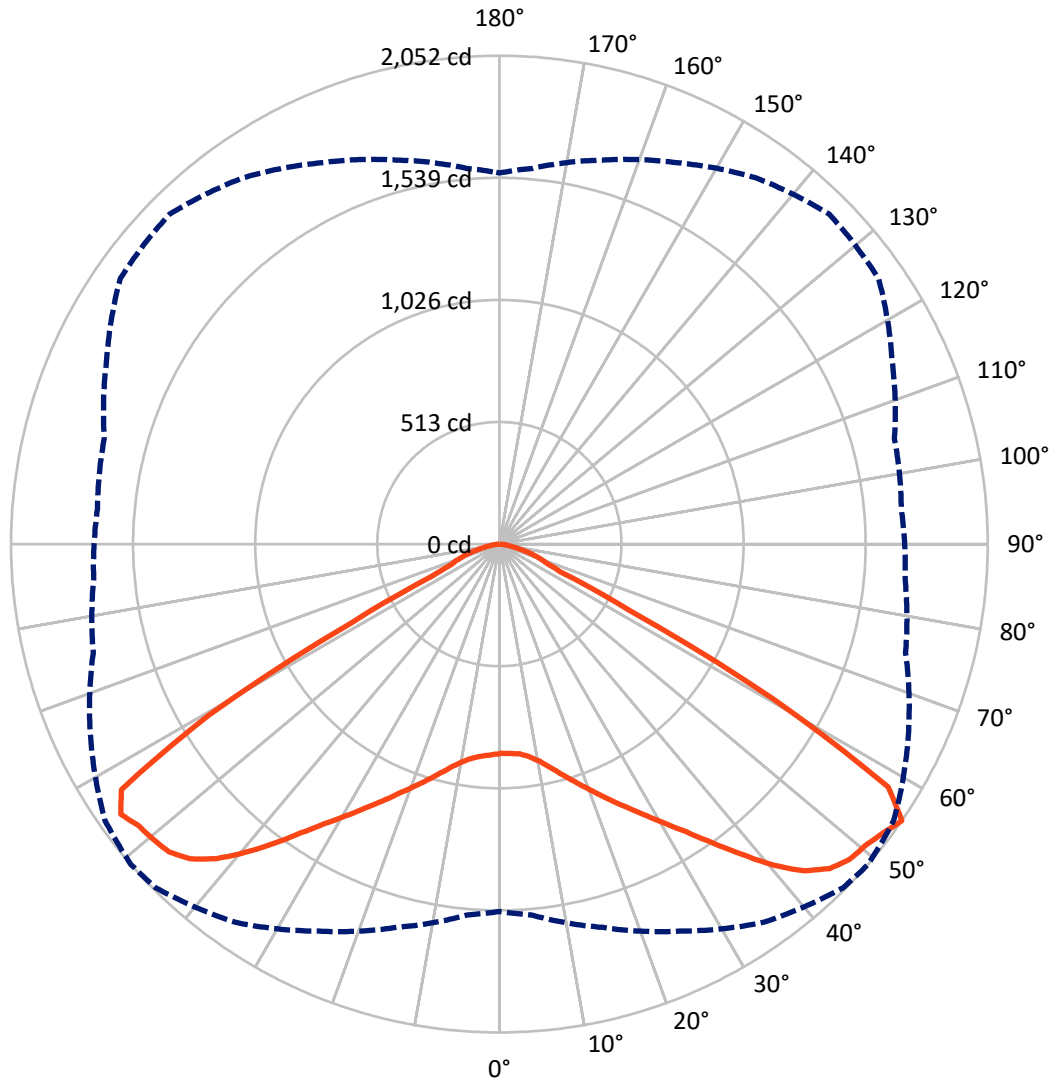
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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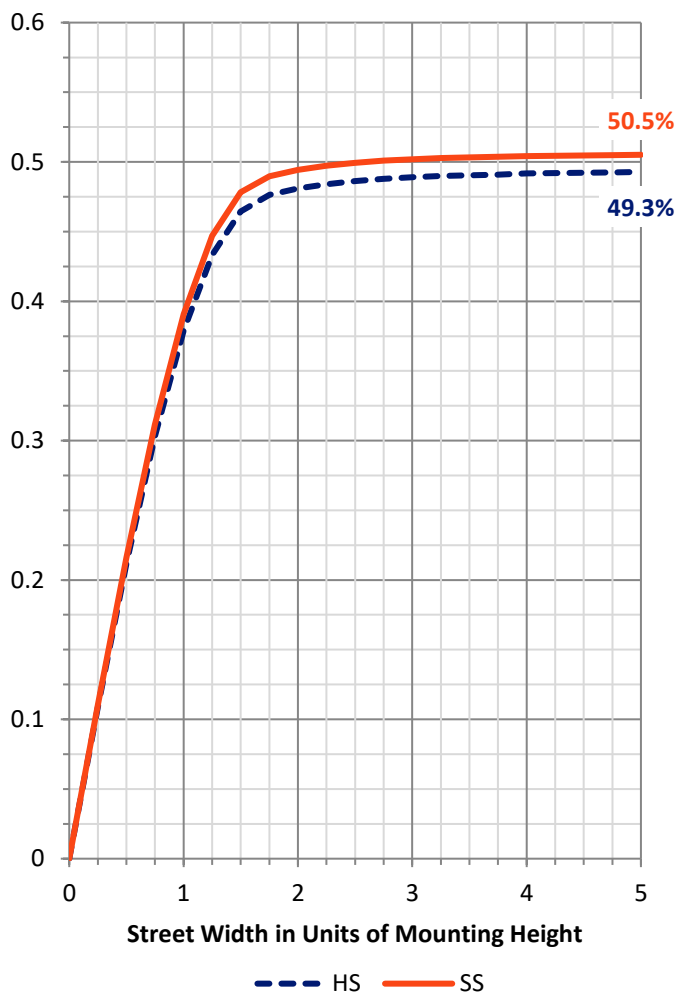
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2627.2	0.0	2627.2
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	2679.3	0.0	2679.3
	% Fixture	50.5	0.0	50.5
Total	Lumens	5306.5	0.0	5306.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	1.6
10°-20°	282.8	5.3
20°-30°	538.7	10.2
30°-40°	913.3	17.2
40°-50°	1374.4	25.9
50°-60°	1504.4	28.4
60°-70°	475.7	9.0
70°-80°	114.2	2.2
80°-90°	17.1	0.3
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°	5306.5	100.0
0°-180°	5306.5	100.0

Coefficient of Utilization



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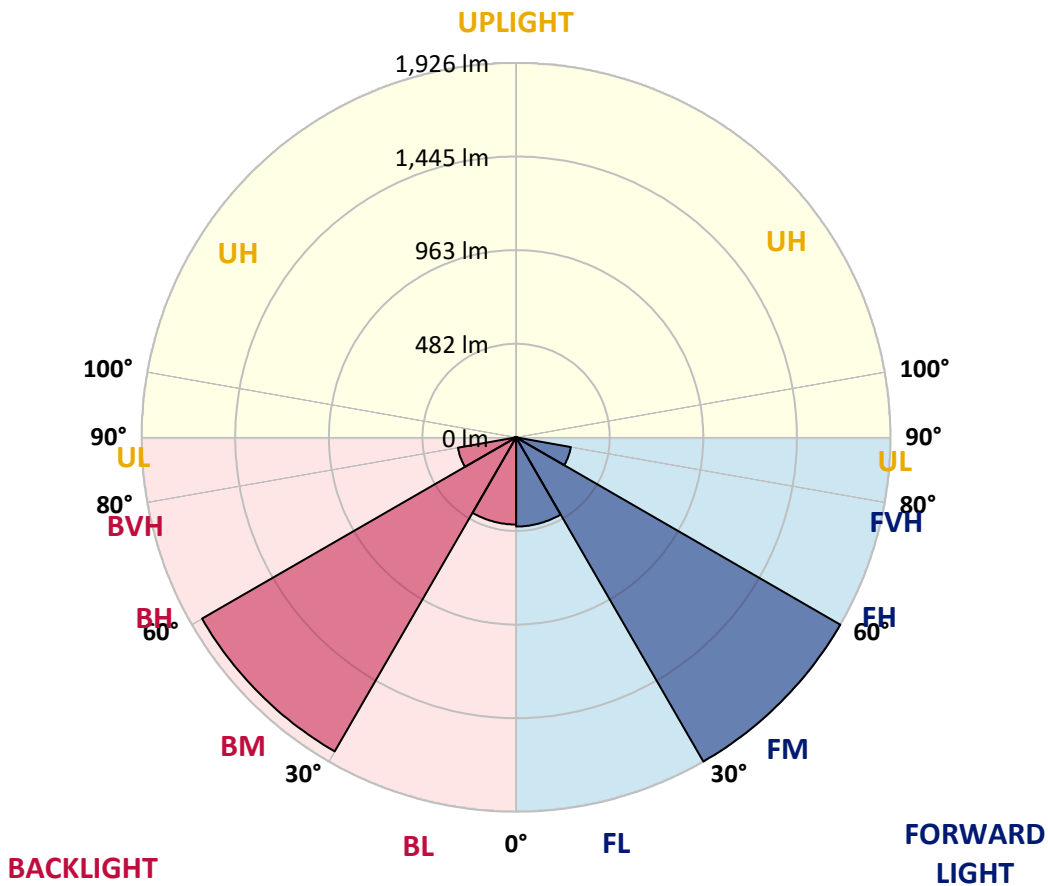
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	458.8	8.6			
FM (30°-60°)	1926.4	36.3			
FH (60°-80°)	286.1	5.4			G0/660
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	448.5	8.5	B1/500		
BM (30°-60°)	1865.7	35.2	B2/2500		
BH (60°-80°)	303.7	5.7	B1/500		G0/660
BVH (80°-90°)	9.2	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	879.1	879.1	879.1	879.1	879.1	879.1	879.1	879.1	879.1	879.1	879.1
2.5°	866.1	867.0	868.7	871.7	874.7	879.1	880.8	882.9	882.5	885.1	885.1
5°	861.8	863.1	865.7	870.0	875.2	883.4	885.5	890.7	895.9	902.4	904.5
7.5°	867.0	868.7	871.7	878.6	886.4	897.2	901.5	910.1	920.1	931.7	936.4
10°	876.9	879.1	884.2	895.5	908.0	924.4	928.2	939.0	955.0	971.0	980.5
12.5°	888.1	891.6	901.1	918.8	937.3	958.9	964.9	978.3	995.6	1016.3	1029.2
15°	901.1	904.1	918.8	943.8	972.7	1001.2	1008.1	1021.0	1040.5	1060.7	1078.9
17.5°	928.2	933.4	950.7	979.6	1013.3	1046.9	1054.7	1069.4	1084.9	1100.9	1118.1
20°	965.4	969.7	991.7	1027.5	1067.2	1097.8	1105.6	1118.6	1125.9	1134.1	1148.8
22.5°	1002.5	1008.5	1033.5	1075.8	1122.4	1155.7	1161.7	1173.8	1168.6	1166.0	1175.5
25°	1048.7	1056.8	1081.4	1127.6	1175.1	1216.1	1220.8	1231.2	1222.6	1209.2	1208.8
27.5°	1106.0	1113.4	1138.8	1186.3	1233.4	1276.1	1285.1	1298.9	1280.0	1263.6	1251.9
30°	1174.2	1179.0	1207.0	1257.5	1305.9	1346.4	1358.1	1371.9	1357.6	1330.4	1318.8
32.5°	1253.6	1260.1	1292.5	1345.6	1388.7	1429.3	1440.9	1458.2	1442.6	1412.0	1397.3
35°	1349.0	1355.5	1389.6	1447.4	1491.4	1533.3	1541.5	1555.7	1536.3	1500.9	1489.3
37.5°	1452.6	1460.8	1503.9	1558.7	1604.9	1653.7	1654.1	1658.4	1630.8	1586.8	1573.8
40°	1569.1	1579.9	1623.0	1680.0	1735.7	1775.4	1774.9	1762.9	1716.2	1648.1	1628.2
42.5°	1684.3	1692.9	1736.5	1795.2	1850.9	1888.4	1877.2	1847.9	1780.5	1687.8	1661.4
45°	1767.6	1774.1	1819.8	1885.8	1942.4	1965.7	1945.4	1910.0	1819.0	1712.8	1674.0
47.5°	1806.9	1815.5	1861.7	1927.3	1991.1	2004.5	1980.4	1947.1	1841.4	1736.1	1683.9
50°	1785.7	1796.9	1849.2	1910.0	1982.1	2009.7	1992.4	1959.2	1865.1	1759.0	1701.6
52.5°	1730.9	1741.7	1807.7	1881.5	1963.1	2017.9	2017.5	1990.3	1892.3	1765.4	1702.4
55°	1543.6	1564.8	1667.5	1794.8	1939.8	2042.1	2052.4	2023.5	1896.6	1767.2	1711.5
57.5°	1004.6	1041.7	1139.3	1305.0	1595.8	1857.4	1927.3	1934.2	1865.6	1759.8	1713.2
60°	419.5	449.2	526.5	636.5	876.9	1188.0	1323.5	1459.5	1623.5	1683.0	1697.3
62.5°	260.7	263.2	271.0	296.0	376.3	528.2	615.4	742.7	986.5	1194.1	1289.9
65°	235.2	236.5	238.2	236.5	240.4	258.9	282.2	326.7	425.9	529.1	651.6
67.5°	207.1	208.9	210.2	208.9	210.2	211.0	213.6	217.5	235.6	250.3	261.5
70°	167.4	170.0	172.2	171.3	176.5	176.5	179.1	182.1	191.2	202.0	209.7
72.5°	127.7	125.6	128.2	129.0	133.8	136.4	140.3	143.7	154.1	160.5	170.5
75°	82.9	80.7	84.6	86.7	93.2	96.7	100.1	103.6	110.9	115.2	124.7
77.5°	44.9	44.4	48.3	51.4	58.3	62.6	65.2	67.8	73.8	75.1	81.1
80°	25.9	25.9	28.5	30.6	35.0	39.7	42.3	44.4	48.8	50.1	52.6
82.5°	14.2	14.2	15.5	16.8	20.3	22.9	25.0	26.8	30.6	31.9	33.2
85°	6.9	6.5	7.3	8.2	9.5	10.8	12.1	12.9	16.0	16.8	18.6
87.5°	0.9	0.9	0.9	1.3	1.7	2.6	3.0	3.0	4.7	5.6	6.5
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°	879.1	879.1	879.1	879.1	879.1	879.1	879.1	879.1	879.1	879.1	879.1
2.5°	887.7	882.1	885.5	886.8	886.8	885.5	879.9	878.2	875.6	871.7	871.7
5°	907.5	903.2	904.1	901.9	896.7	890.3	879.9	874.7	870.4	865.7	865.2
7.5°	941.6	936.0	935.2	927.0	913.1	899.3	883.8	874.3	867.8	861.8	861.4
10°	986.1	980.9	974.4	958.0	937.7	917.5	896.3	883.4	873.9	865.2	864.8
12.5°	1035.7	1029.7	1017.6	993.4	968.0	948.1	923.9	904.1	889.8	878.2	876.0
15°	1089.6	1081.0	1060.3	1031.8	1006.8	985.6	959.8	931.3	909.7	891.1	889.0
17.5°	1131.1	1119.9	1097.4	1070.7	1049.9	1028.8	995.1	959.3	928.2	904.9	901.5
20°	1159.6	1150.5	1125.0	1105.2	1093.1	1074.5	1035.3	994.7	959.8	930.4	928.7
22.5°	1185.9	1175.1	1150.1	1138.4	1138.4	1125.9	1088.4	1040.5	999.5	965.4	961.0
25°	1215.7	1204.0	1185.0	1183.7	1189.8	1184.2	1138.8	1087.5	1039.6	1001.2	994.3
27.5°	1257.1	1244.1	1232.9	1240.7	1249.3	1243.3	1192.8	1133.2	1082.7	1043.9	1037.9
30°	1323.1	1307.1	1296.8	1306.3	1323.1	1305.4	1250.6	1187.6	1136.7	1094.0	1090.9
32.5°	1399.9	1381.8	1371.0	1386.1	1401.2	1373.6	1319.2	1258.8	1205.3	1160.4	1155.2
35°	1492.3	1469.4	1453.4	1473.7	1489.3	1462.1	1408.1	1350.7	1291.2	1244.6	1237.7
37.5°	1574.3	1546.7	1535.9	1564.3	1585.1	1567.4	1508.7	1454.7	1389.6	1338.6	1335.6
40°	1633.8	1606.6	1598.9	1645.9	1682.2	1677.8	1625.2	1563.5	1502.2	1443.5	1437.9
42.5°	1659.7	1640.7	1642.5	1705.9	1762.0	1789.6	1742.6	1676.5	1617.4	1556.6	1552.7
45°	1665.3	1653.7	1667.5	1746.9	1820.7	1877.2	1837.1	1781.8	1715.0	1656.3	1654.5
47.5°	1671.4	1664.9	1686.0	1770.2	1857.8	1923.4	1900.9	1844.0	1776.2	1718.8	1714.5
50°	1685.6	1683.0	1706.8	1786.6	1875.5	1935.9	1910.4	1853.9	1784.4	1727.9	1717.5
52.5°	1689.9	1685.6	1719.7	1812.1	1904.8	1935.5	1880.7	1806.9	1737.0	1674.0	1663.2
55°	1703.3	1695.5	1718.8	1821.5	1945.4	1960.5	1878.9	1768.5	1670.9	1585.1	1559.6
57.5°	1706.8	1698.1	1713.2	1806.0	1901.4	1888.0	1651.5	1427.1	1243.3	1147.9	1158.7
60°	1688.2	1690.8	1664.9	1654.5	1525.1	1346.4	1011.1	808.3	634.8	561.4	577.4
62.5°	1285.1	1295.9	1207.5	1049.9	807.4	640.0	423.3	328.8	278.3	265.4	267.6
65°	648.6	663.3	571.4	472.5	351.3	284.0	245.5	237.8	235.2	232.2	232.2
67.5°	256.8	261.1	257.6	241.2	224.4	218.4	216.6	215.8	212.8	211.0	211.5
70°	206.3	209.7	204.6	194.2	187.3	186.9	186.0	184.3	182.1	182.1	183.4
72.5°	168.3	171.8	164.4	157.9	152.8	148.9	146.7	145.4	142.4	142.4	143.7
75°	123.9	126.0	120.0	119.1	113.5	109.6	106.2	104.4	100.5	98.8	100.1
77.5°	82.4	82.0	79.0	79.0	76.8	72.1	68.2	64.3	59.1	55.7	56.5
80°	53.5	53.5	52.2	52.2	50.1	46.2	41.4	37.5	34.5	31.9	31.9
82.5°	34.1	33.7	33.2	32.8	31.9	28.1	24.6	22.0	19.9	18.1	18.6
85°	19.0	19.0	18.1	18.1	16.4	14.2	12.5	10.8	9.5	9.1	9.1
87.5°	6.5	6.5	6.0	6.0	5.2	3.9	3.0	2.6	2.2	1.7	2.2
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)