

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: P526908

Luminaire Tested: **GALN-SA1D-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526908
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-SA1D-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA 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: 4868 lumens
Efficiency: N/A
Efficacy: 74.9 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

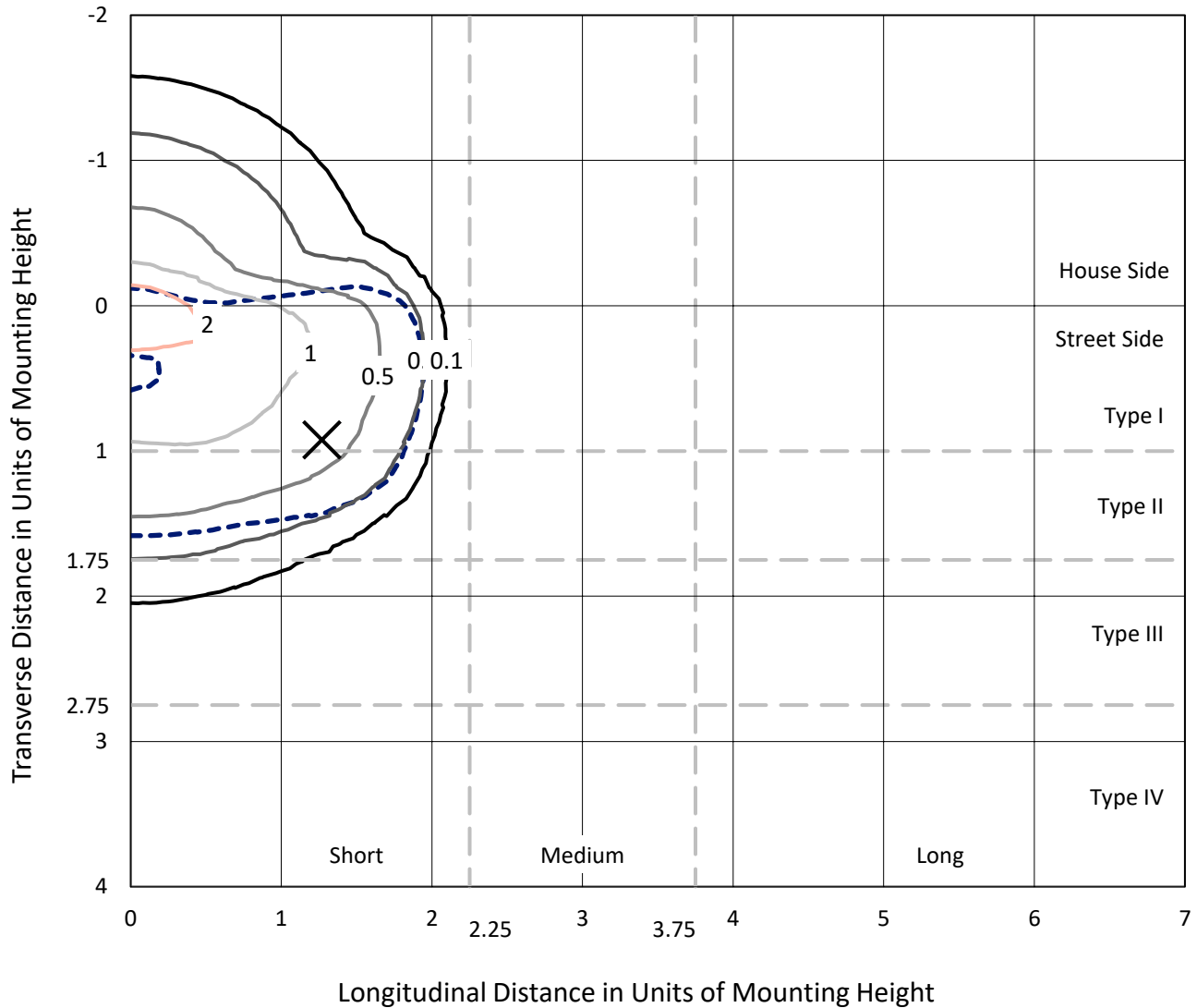
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

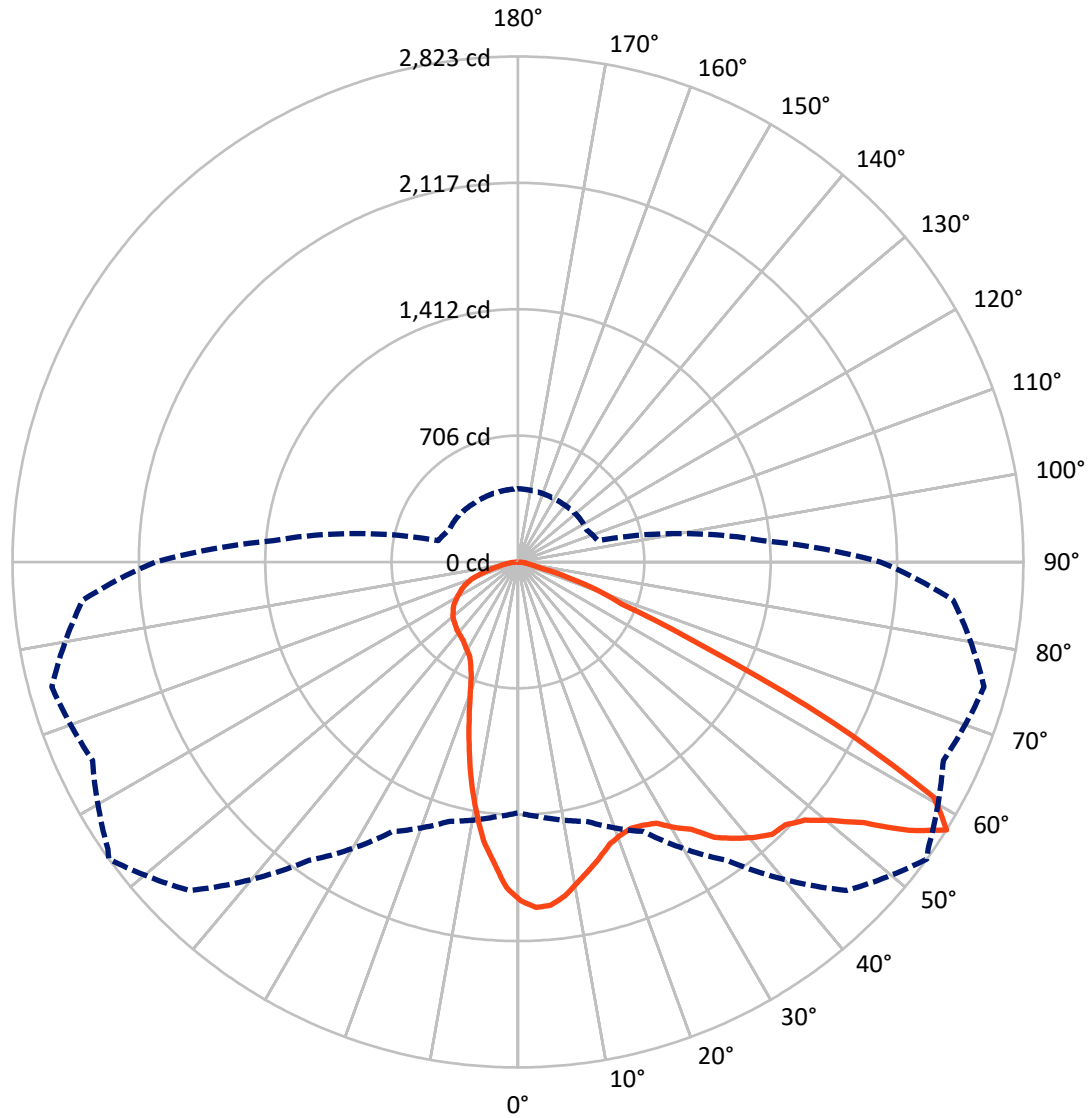
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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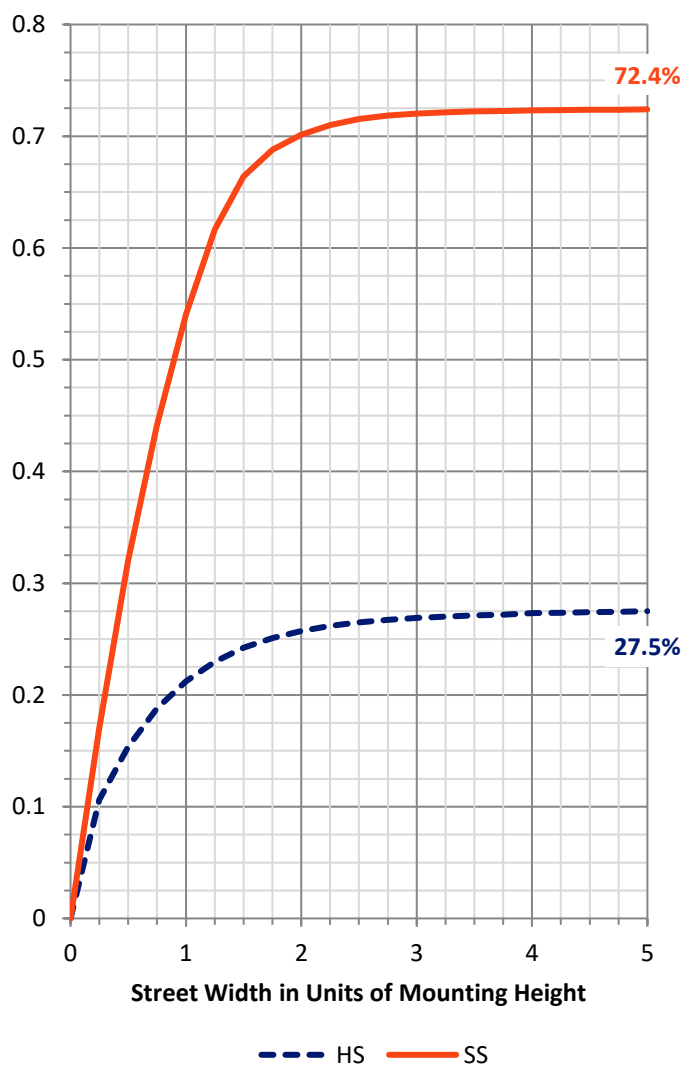
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1346.8	0.0	1346.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	3521.3	0.0	3521.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	4868.0	0.0	4868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	3.4
10°-20°	377.8	7.8
20°-30°	530.8	10.9
30°-40°	742.1	15.2
40°-50°	1004.7	20.6
50°-60°	1223.8	25.1
60°-70°	637.4	13.1
70°-80°	163.3	3.4
80°-90°	24.9	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°	4868.0	100.0
0°-180°	4868.0	100.0

Coefficient of Utilization



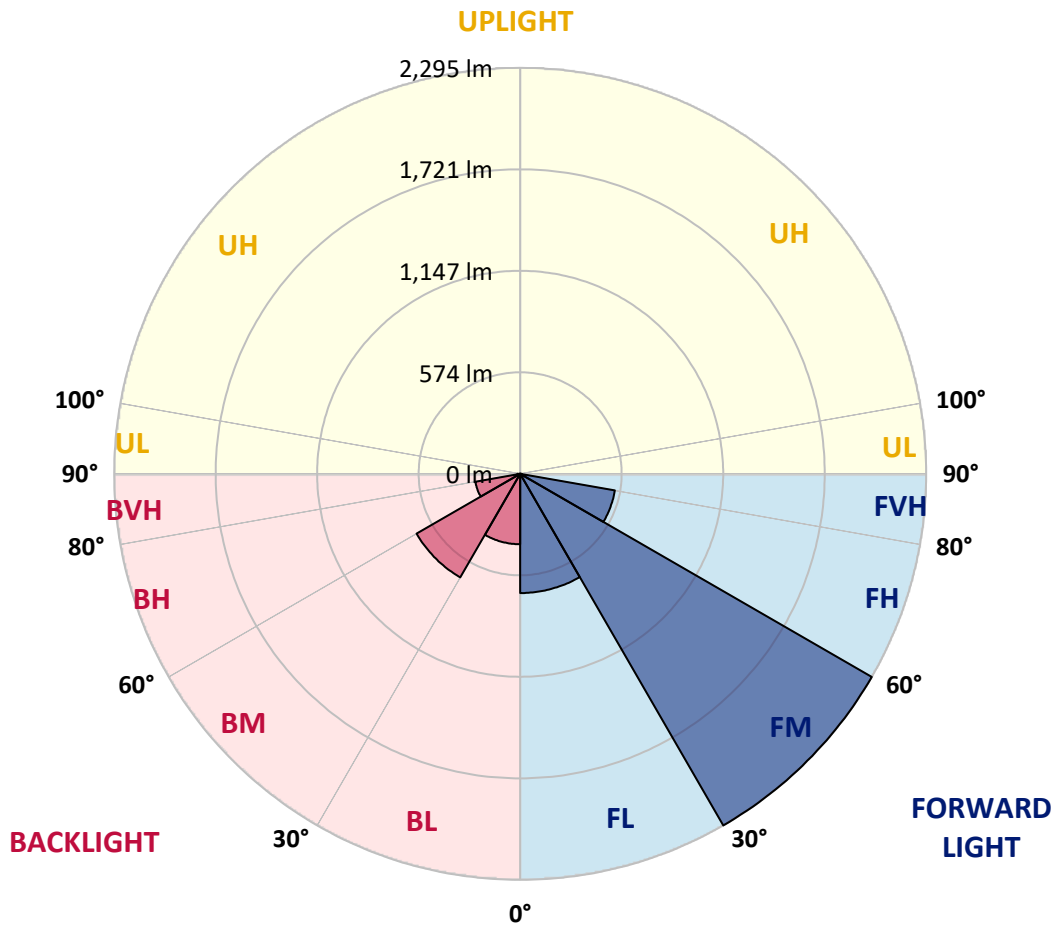
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	673.8	13.8			
FM (30°-60°)	2294.6	47.1			
FH (60°-80°)	543.4	11.2			G0/660
FVH (80°-90°)	9.4	0.2			G0/10
BL (0°-30°)	398.0	8.2	B1/500		
BM (30°-60°)	675.9	13.9	B1/1000		
BH (60°-80°)	257.3	5.3	B1/500		G1/500
BVH (80°-90°)	15.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1
2.5°	1945.9	1938.4	1939.7	1949.7	1937.2	1932.2	1932.2	1907.8	1909.7	1892.8	1888.4
5°	1900.9	1883.4	1895.3	1910.3	1912.8	1917.8	1925.9	1919.7	1902.1	1884.0	1854.6
7.5°	1783.3	1798.9	1803.3	1813.9	1836.4	1857.1	1882.8	1865.2	1864.6	1846.5	1828.9
10°	1680.0	1670.6	1694.4	1710.1	1747.6	1782.0	1821.4	1819.6	1828.9	1808.3	1778.3
12.5°	1577.4	1569.9	1581.2	1616.8	1669.4	1719.4	1766.4	1748.8	1798.9	1795.2	1730.7
15°	1468.5	1474.2	1490.4	1523.6	1592.4	1652.5	1711.9	1712.6	1757.0	1772.0	1685.7
17.5°	1392.2	1385.9	1406.6	1456.0	1517.3	1589.3	1656.9	1670.6	1738.8	1747.6	1671.9
20°	1335.3	1344.0	1370.9	1396.0	1466.7	1553.6	1630.0	1635.0	1735.1	1758.9	1650.0
22.5°	1321.5	1316.5	1325.2	1365.9	1424.1	1518.6	1615.6	1634.3	1734.5	1755.1	1608.7
25°	1307.1	1323.4	1322.7	1363.4	1406.0	1490.4	1627.5	1648.1	1767.6	1774.5	1614.3
27.5°	1339.6	1337.8	1355.3	1358.4	1411.0	1497.9	1652.5	1668.1	1822.7	1817.1	1618.7
30°	1372.2	1362.8	1373.4	1410.3	1434.7	1541.1	1721.3	1720.1	1894.0	1890.3	1632.5
32.5°	1412.2	1407.8	1414.7	1447.3	1488.6	1598.7	1779.5	1816.4	1966.6	1990.4	1680.0
35°	1419.7	1437.9	1454.1	1497.9	1556.8	1691.9	1889.0	1919.7	2050.4	2124.9	1770.7
37.5°	1467.3	1474.2	1512.3	1589.9	1643.7	1816.4	1958.5	1977.9	2126.8	2211.2	1866.5
40°	1518.0	1526.1	1583.7	1665.0	1738.8	1897.8	2023.5	2029.8	2151.2	2277.6	1929.1
42.5°	1586.8	1594.3	1651.2	1753.2	1852.1	1967.2	2081.1	2088.0	2149.3	2353.9	2028.5
45°	1658.1	1676.3	1743.2	1859.0	1947.8	2048.6	2094.2	2122.4	2166.8	2422.1	2109.3
47.5°	1758.2	1775.1	1830.2	1943.4	2047.3	2119.9	2154.9	2182.5	2208.7	2481.6	2161.2
50°	1864.6	1867.7	1934.7	2037.3	2113.6	2200.6	2268.2	2277.6	2263.8	2550.4	2249.4
52.5°	1942.8	1952.8	2004.8	2104.9	2218.8	2325.8	2418.4	2428.4	2401.5	2576.0	2279.4
55°	1813.3	1807.7	1892.1	2025.4	2289.5	2512.2	2646.7	2654.2	2501.6	2655.5	2377.7
57.5°	1401.6	1428.5	1500.4	1661.3	2034.2	2594.8	2823.2	2796.3	2621.7	2695.5	2440.3
60°	1018.6	1012.4	1060.6	1168.2	1533.0	2236.3	2669.3	2696.8	2523.5	2429.6	2012.3
62.5°	829.7	820.9	824.7	828.4	989.2	1484.2	1976.0	1975.4	1943.4	1746.3	1357.2
65°	663.2	683.9	685.8	713.9	734.6	886.6	1145.0	1206.4	1050.6	861.6	625.1
67.5°	499.9	492.4	517.5	617.6	656.4	640.1	625.1	632.0	449.3	324.1	305.3
70°	294.7	291.6	321.6	430.5	540.6	508.7	471.2	471.8	308.5	226.5	252.2
72.5°	161.4	160.8	167.1	218.4	307.2	319.1	282.8	291.6	184.0	183.3	197.1
75°	90.1	88.2	86.3	96.4	110.8	117.0	119.5	120.8	126.4	141.4	147.0
77.5°	33.2	31.9	31.9	36.9	46.9	58.8	74.5	75.7	89.5	102.6	108.2
80°	11.3	12.5	16.9	23.2	31.3	41.9	50.7	51.9	63.2	72.0	73.8
82.5°	6.9	7.5	11.3	16.3	22.5	29.4	37.5	38.2	46.9	52.6	55.1
85°	3.1	3.8	6.3	10.0	14.4	19.4	20.0	20.0	19.4	20.0	18.8
87.5°	0.0	0.0	1.3	1.3	1.3	1.9	2.5	1.9	3.1	3.8	3.8
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°	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1	1892.1
2.5°	1875.2	1868.4	1847.1	1828.3	1822.7	1797.7	1760.7	1765.1	1738.2	1750.7	1737.6
5°	1849.6	1826.4	1772.0	1748.8	1688.2	1660.6	1641.9	1594.9	1573.0	1568.6	1549.9
7.5°	1783.9	1769.5	1701.3	1638.7	1574.3	1519.2	1448.5	1400.3	1365.9	1356.5	1329.0
10°	1732.0	1700.0	1605.6	1510.5	1418.5	1322.7	1230.8	1158.8	1123.8	1083.1	1069.3
12.5°	1680.6	1632.5	1504.8	1382.8	1263.9	1143.2	1031.8	944.2	867.9	849.7	843.5
15°	1648.7	1564.9	1414.7	1267.7	1098.7	941.1	829.7	772.1	725.2	705.8	719.6
17.5°	1606.8	1509.2	1328.4	1132.5	946.7	801.5	708.3	672.6	655.7	657.6	652.0
20°	1554.3	1456.6	1215.1	1009.9	810.9	695.2	642.0	628.8	631.3	635.7	633.8
22.5°	1516.7	1392.8	1133.2	884.7	700.8	636.3	614.4	605.1	613.2	616.9	613.8
25°	1487.9	1338.4	1033.7	774.0	637.0	603.2	593.2	592.5	605.1	610.1	606.9
27.5°	1461.6	1287.7	934.8	689.5	594.4	577.5	574.4	581.9	590.0	595.0	599.4
30°	1446.0	1248.9	842.2	618.8	573.1	565.0	559.4	566.3	570.6	575.6	573.1
32.5°	1461.0	1221.4	752.7	578.8	555.6	547.5	555.0	550.6	558.1	562.5	555.6
35°	1508.0	1197.0	688.9	557.5	535.6	538.7	540.0	538.1	541.2	537.5	545.6
37.5°	1554.3	1188.2	630.1	539.4	526.2	526.2	525.0	521.2	527.5	526.2	530.0
40°	1613.1	1193.8	580.0	520.0	517.5	516.2	511.2	510.6	508.1	508.7	510.0
42.5°	1664.4	1206.4	551.2	507.4	509.3	511.8	502.4	494.9	498.1	491.8	491.8
45°	1718.8	1217.6	525.6	498.7	496.8	496.2	488.7	484.3	481.8	482.4	488.1
47.5°	1804.5	1233.9	506.2	486.8	488.1	478.7	476.8	471.2	473.7	477.4	478.0
50°	1865.2	1268.3	491.2	473.0	477.4	471.2	459.9	457.4	457.4	463.6	462.4
52.5°	1907.8	1316.5	476.8	458.0	459.9	454.9	451.1	445.5	441.7	450.5	454.9
55°	2037.9	1396.6	473.0	445.5	444.9	439.9	433.0	427.4	425.5	426.7	435.5
57.5°	2025.4	1371.5	461.1	423.6	422.4	415.5	408.6	406.7	406.1	407.3	409.8
60°	1644.4	1013.0	411.7	398.6	396.7	395.4	388.6	381.1	377.3	381.1	377.9
62.5°	1088.1	678.3	362.9	368.5	369.8	366.7	355.4	347.9	349.1	353.5	346.6
65°	534.4	398.6	329.1	344.1	345.4	336.6	326.0	317.2	312.9	316.6	313.5
67.5°	305.3	304.7	301.6	317.2	316.6	307.8	291.0	283.4	275.9	277.2	275.3
70°	259.0	264.0	270.3	279.7	279.1	269.1	249.0	243.4	232.8	231.5	228.4
72.5°	204.0	212.7	226.5	233.4	227.8	215.2	202.1	192.7	183.3	177.7	179.6
75°	151.4	163.9	171.4	175.8	167.1	160.2	149.5	138.3	127.0	122.0	120.1
77.5°	110.1	113.9	120.8	123.9	118.3	111.4	105.1	93.9	83.2	76.3	74.5
80°	77.0	79.5	84.5	84.5	84.5	81.3	73.2	61.9	55.1	48.8	47.6
82.5°	53.8	56.3	61.3	58.8	58.2	54.4	49.4	40.7	33.2	28.8	27.5
85°	18.8	20.6	25.0	30.0	31.9	31.3	28.2	22.5	17.5	14.4	13.1
87.5°	4.4	4.4	5.0	4.4	4.4	5.0	4.4	4.4	4.4	3.1	2.5
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)