

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: P526674

Luminaire Tested: **GALN-SA1C-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526674
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-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 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: 4424 lumens
Efficiency: N/A
Efficacy: 77.6 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

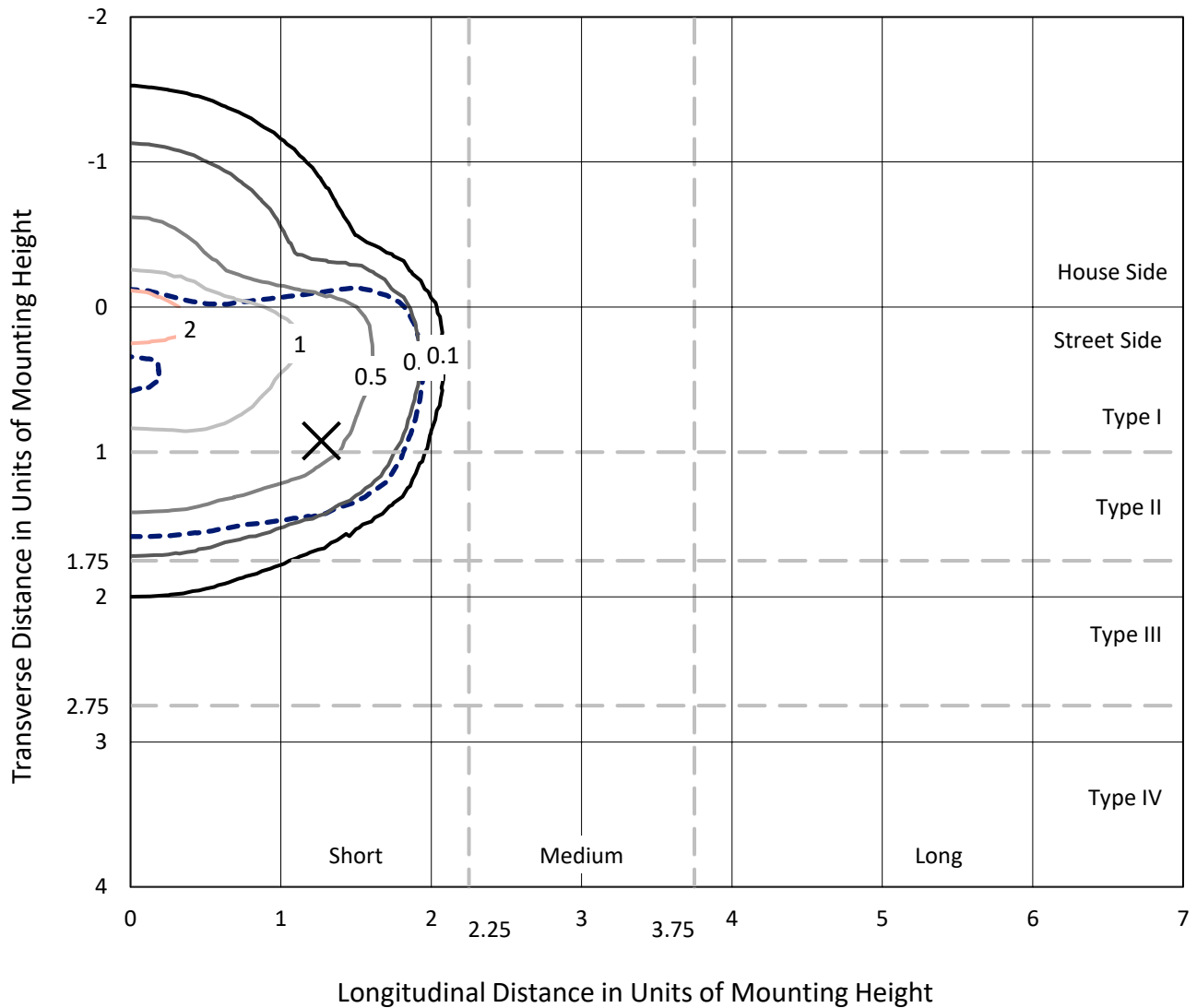
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

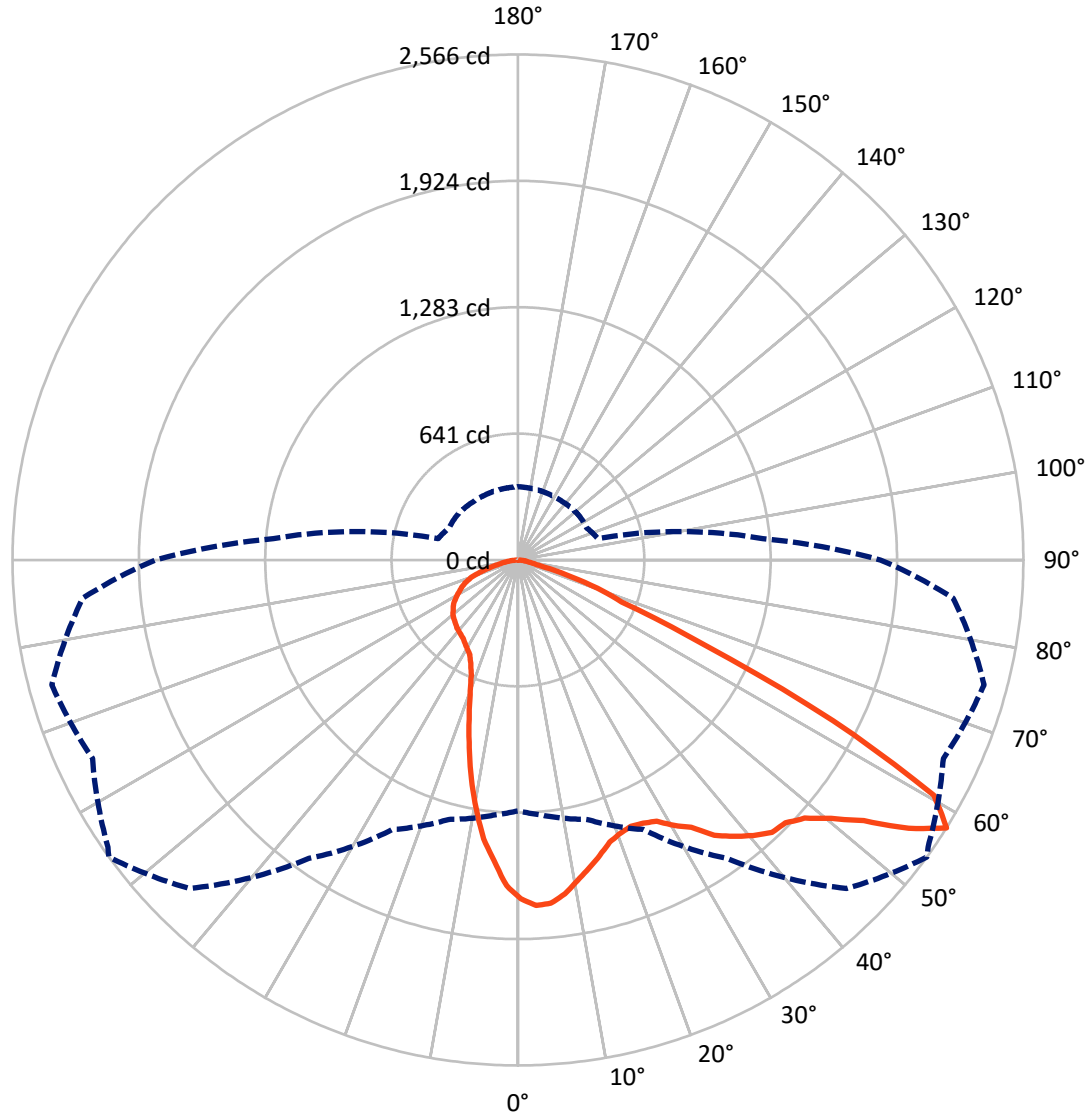
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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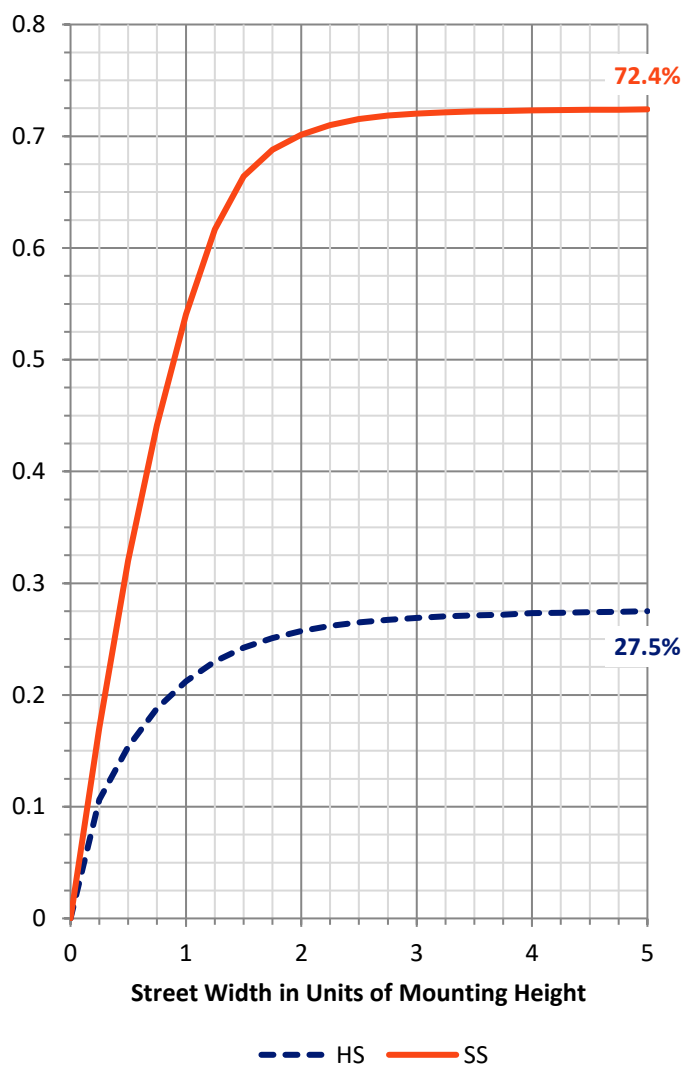
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1223.9	0.0	1223.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	3200.1	0.0	3200.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	4424.0	0.0	4424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	3.4
10°-20°	343.4	7.8
20°-30°	482.4	10.9
30°-40°	674.4	15.2
40°-50°	913.0	20.6
50°-60°	1112.1	25.1
60°-70°	579.2	13.1
70°-80°	148.4	3.4
80°-90°	22.6	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°	4424.0	100.0
0°-180°	4424.0	100.0

Coefficient of Utilization



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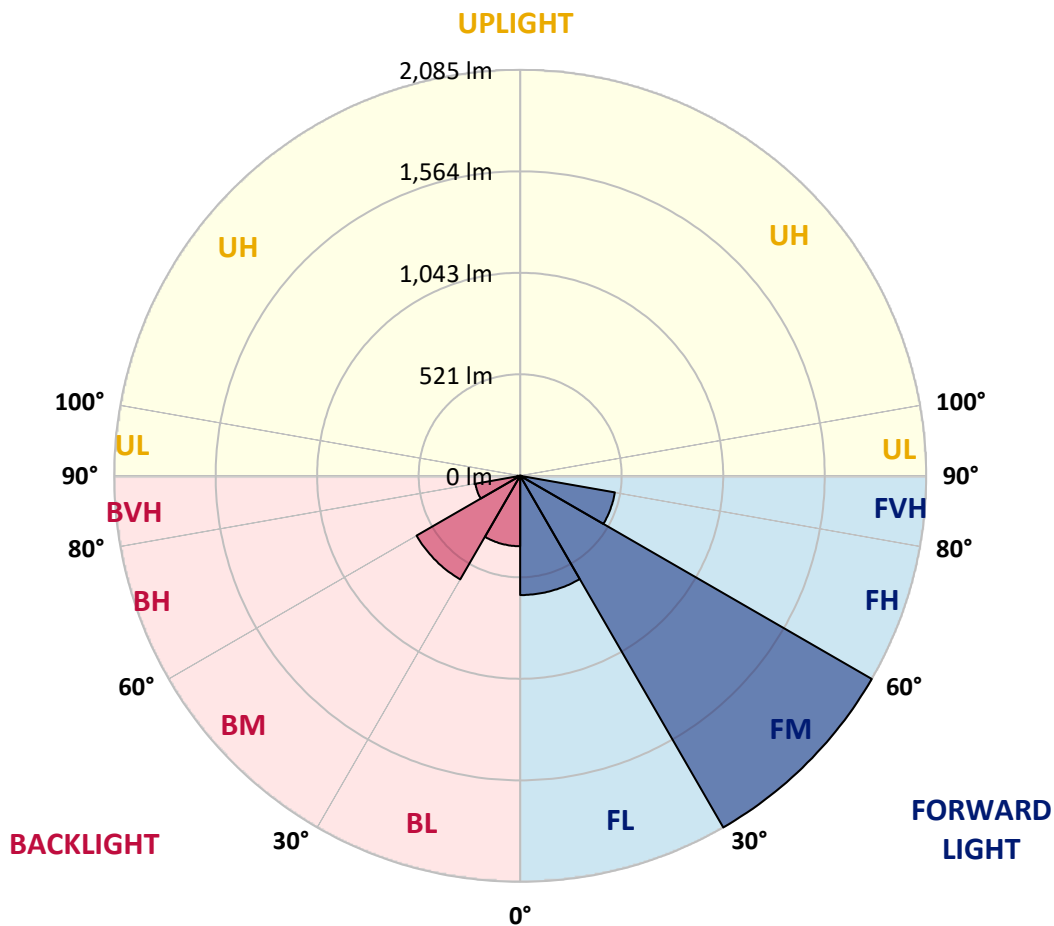
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.3	13.8			
FM (30°-60°)	2085.3	47.1			
FH (60°-80°)	493.8	11.2			G0/660
FVH (80°-90°)	8.6	0.2			G0/10
BL (0°-30°)	361.7	8.2	B1/500		
BM (30°-60°)	614.3	13.9	B1/1000		
BH (60°-80°)	233.8	5.3	B1/500		G1/500
BVH (80°-90°)	14.1	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°	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6
2.5°	1768.5	1761.6	1762.8	1771.9	1760.5	1756.0	1756.0	1733.8	1735.5	1720.1	1716.1
5°	1727.5	1711.6	1722.4	1736.0	1738.3	1742.9	1750.3	1744.6	1728.7	1712.2	1685.4
7.5°	1620.6	1634.8	1638.8	1648.5	1668.9	1687.7	1711.0	1695.1	1694.5	1678.0	1662.1
10°	1526.8	1518.3	1539.9	1554.1	1588.2	1619.5	1655.3	1653.6	1662.1	1643.4	1616.1
12.5°	1433.5	1426.7	1436.9	1469.4	1517.1	1562.6	1605.3	1589.3	1634.8	1631.4	1572.8
15°	1334.6	1339.7	1354.5	1384.6	1447.2	1501.8	1555.8	1556.4	1596.7	1610.4	1531.9
17.5°	1265.2	1259.5	1278.3	1323.2	1378.9	1444.3	1505.8	1518.3	1580.2	1588.2	1519.4
20°	1213.5	1221.4	1245.9	1268.6	1332.9	1411.9	1481.3	1485.8	1576.8	1598.4	1499.5
22.5°	1201.0	1196.4	1204.4	1241.3	1294.2	1380.1	1468.2	1485.3	1576.3	1595.0	1462.0
25°	1187.9	1202.7	1202.1	1239.1	1277.7	1354.5	1479.0	1497.8	1606.4	1612.7	1467.1
27.5°	1217.5	1215.7	1231.7	1234.5	1282.3	1361.3	1501.8	1516.0	1656.4	1651.3	1471.1
30°	1247.0	1238.5	1248.2	1281.7	1303.9	1400.6	1564.3	1563.2	1721.3	1717.9	1483.6
32.5°	1283.4	1279.4	1285.7	1315.3	1352.8	1452.9	1617.2	1650.8	1787.2	1808.8	1526.8
35°	1290.2	1306.7	1321.5	1361.3	1414.8	1537.6	1716.7	1744.6	1863.4	1931.1	1609.2
37.5°	1333.5	1339.7	1374.4	1444.9	1493.8	1650.8	1779.8	1797.5	1932.8	2009.6	1696.2
40°	1379.5	1386.9	1439.2	1513.1	1580.2	1724.7	1839.0	1844.7	1955.0	2069.8	1753.1
42.5°	1442.1	1448.9	1500.6	1593.3	1683.2	1787.8	1891.3	1897.5	1953.3	2139.2	1843.5
45°	1506.9	1523.4	1584.2	1689.4	1770.2	1861.7	1903.2	1928.8	1969.2	2201.2	1916.9
47.5°	1597.9	1613.2	1663.3	1766.2	1860.6	1926.5	1958.4	1983.4	2007.3	2255.2	1964.1
50°	1694.5	1697.4	1758.2	1851.5	1920.9	1999.9	2061.3	2069.8	2057.3	2317.8	2044.2
52.5°	1765.6	1774.7	1821.9	1912.9	2016.4	2113.6	2197.8	2206.9	2182.4	2341.1	2071.5
55°	1647.9	1642.8	1719.6	1840.7	2080.6	2283.1	2405.3	2412.2	2273.4	2413.3	2160.8
57.5°	1273.7	1298.2	1363.6	1509.7	1848.6	2358.1	2565.7	2541.2	2382.6	2449.7	2217.7
60°	925.7	920.1	963.8	1061.6	1393.2	2032.3	2425.8	2450.8	2293.3	2208.0	1828.7
62.5°	754.0	746.1	749.5	752.9	899.0	1348.8	1795.8	1795.2	1766.2	1587.1	1233.4
65°	602.8	621.5	623.2	648.8	667.6	805.8	1040.6	1096.3	954.7	783.0	568.1
67.5°	454.3	447.5	470.3	561.2	596.5	581.7	568.1	574.3	408.3	294.6	277.5
70°	267.8	265.0	292.3	391.2	491.3	462.3	428.2	428.8	280.3	205.8	229.2
72.5°	146.7	146.1	151.8	198.5	279.2	290.0	257.0	265.0	167.2	166.6	179.1
75°	81.9	80.2	78.5	87.6	100.6	106.3	108.6	109.7	114.9	128.5	133.6
77.5°	30.1	29.0	29.0	33.5	42.6	53.5	67.7	68.8	81.3	93.3	98.4
80°	10.2	11.4	15.4	21.0	28.4	38.1	46.1	47.2	57.4	65.4	67.1
82.5°	6.3	6.8	10.2	14.8	20.5	26.7	34.1	34.7	42.6	47.8	50.0
85°	2.8	3.4	5.7	9.1	13.1	17.6	18.2	18.2	17.6	18.2	17.1
87.5°	0.0	0.0	1.1	1.1	1.1	1.7	2.3	1.7	2.8	3.4	3.4
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°	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6	1719.6
2.5°	1704.2	1697.9	1678.6	1661.6	1656.4	1633.7	1600.1	1604.1	1579.7	1591.0	1579.1
5°	1680.9	1659.9	1610.4	1589.3	1534.2	1509.2	1492.1	1449.5	1429.6	1425.6	1408.5
7.5°	1621.2	1608.1	1546.1	1489.3	1430.7	1380.7	1316.4	1272.6	1241.3	1232.8	1207.8
10°	1574.0	1545.0	1459.1	1372.7	1289.1	1202.1	1118.5	1053.1	1021.3	984.3	971.8
12.5°	1527.4	1483.6	1367.6	1256.7	1148.6	1038.9	937.7	858.1	788.7	772.2	766.5
15°	1498.4	1422.2	1285.7	1152.1	998.5	855.2	754.0	701.7	659.1	641.4	653.9
17.5°	1460.3	1371.6	1207.2	1029.2	860.3	728.4	643.7	611.3	595.9	597.6	592.5
20°	1412.5	1323.8	1104.3	917.8	737.0	631.8	583.4	571.5	573.8	577.7	576.0
22.5°	1378.4	1265.8	1029.8	804.1	636.9	578.3	558.4	549.9	557.3	560.7	557.8
25°	1352.2	1216.3	939.4	703.4	578.9	548.2	539.1	538.5	549.9	554.4	551.6
27.5°	1328.3	1170.3	849.5	626.6	540.2	524.9	522.0	528.8	536.2	540.8	544.8
30°	1314.1	1135.0	765.4	562.4	520.9	513.5	508.4	514.6	518.6	523.1	520.9
32.5°	1327.8	1110.0	684.1	526.0	504.9	497.6	504.4	500.4	507.2	511.2	504.9
35°	1370.4	1087.8	626.1	506.7	486.8	489.6	490.7	489.0	491.9	488.5	495.9
37.5°	1412.5	1079.8	572.6	490.2	478.2	478.2	477.1	473.7	479.4	478.2	481.6
40°	1465.9	1085.0	527.1	472.5	470.3	469.1	464.6	464.0	461.7	462.3	463.4
42.5°	1512.6	1096.3	501.0	461.2	462.9	465.1	456.6	449.8	452.6	446.9	446.9
45°	1562.0	1106.6	477.7	453.2	451.5	450.9	444.1	440.1	437.9	438.4	443.5
47.5°	1639.9	1121.4	460.0	442.4	443.5	435.0	433.3	428.2	430.5	433.9	434.4
50°	1695.1	1152.6	446.4	429.9	433.9	428.2	417.9	415.7	415.7	421.4	420.2
52.5°	1733.8	1196.4	433.3	416.2	417.9	413.4	410.0	404.9	401.5	409.4	413.4
55°	1852.1	1269.2	429.9	404.9	404.3	399.8	393.5	388.4	386.7	387.8	395.8
57.5°	1840.7	1246.5	419.1	385.0	383.8	377.6	371.3	369.6	369.0	370.2	372.5
60°	1494.4	920.6	374.2	362.2	360.5	359.4	353.1	346.3	342.9	346.3	343.5
62.5°	988.9	616.4	329.8	334.9	336.1	333.2	323.0	316.2	317.3	321.3	315.0
65°	485.6	362.2	299.1	312.8	313.9	305.9	296.3	288.3	284.3	287.7	284.9
67.5°	277.5	276.9	274.1	288.3	287.7	279.8	264.4	257.6	250.8	251.9	250.2
70°	235.4	240.0	245.7	254.2	253.6	244.5	226.3	221.2	211.5	210.4	207.6
72.5°	185.4	193.3	205.8	212.1	207.0	195.6	183.7	175.1	166.6	161.5	163.2
75°	137.6	149.0	155.8	159.8	151.8	145.6	135.9	125.7	115.4	110.9	109.2
77.5°	100.1	103.5	109.7	112.6	107.5	101.2	95.5	85.3	75.6	69.4	67.7
80°	69.9	72.2	76.8	76.8	76.8	73.9	66.5	56.3	50.0	44.4	43.2
82.5°	48.9	51.2	55.7	53.5	52.9	49.5	44.9	37.0	30.1	26.2	25.0
85°	17.1	18.8	22.7	27.3	29.0	28.4	25.6	20.5	15.9	13.1	11.9
87.5°	4.0	4.0	4.5	4.0	4.0	4.5	4.0	4.0	4.0	2.8	2.3
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)