

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: P526906

Luminaire Tested: **GALN-SA1D-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526906
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-SA1D-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA 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: 4877 lumens
Efficiency: N/A
Efficacy: 75.0 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

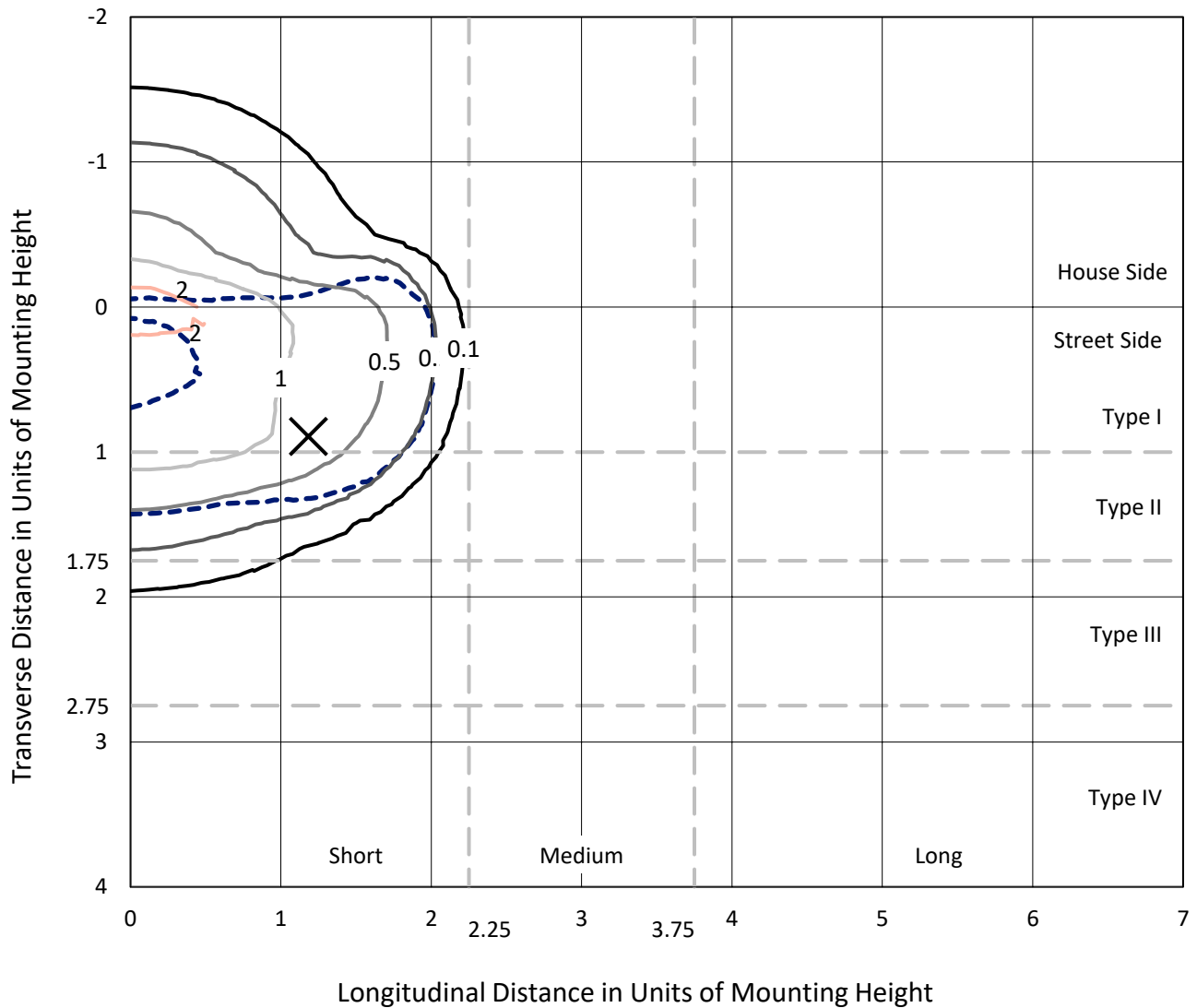
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526906
 CATALOG NUMBER: GALN-SA1D-827-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

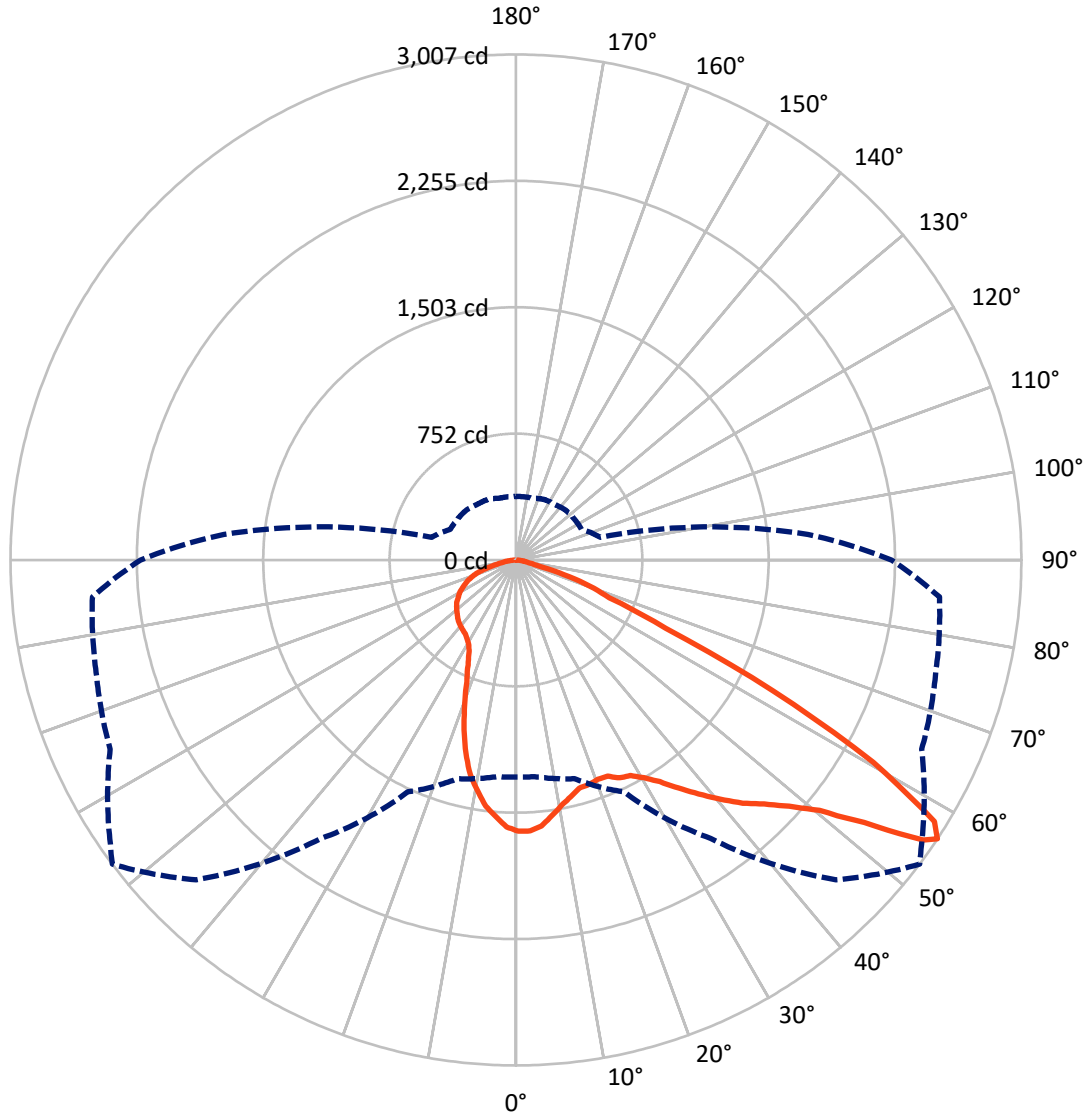
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

REPORT NUMBER: P526906
CATALOG NUMBER: GALN-SA1D-827-U-SL2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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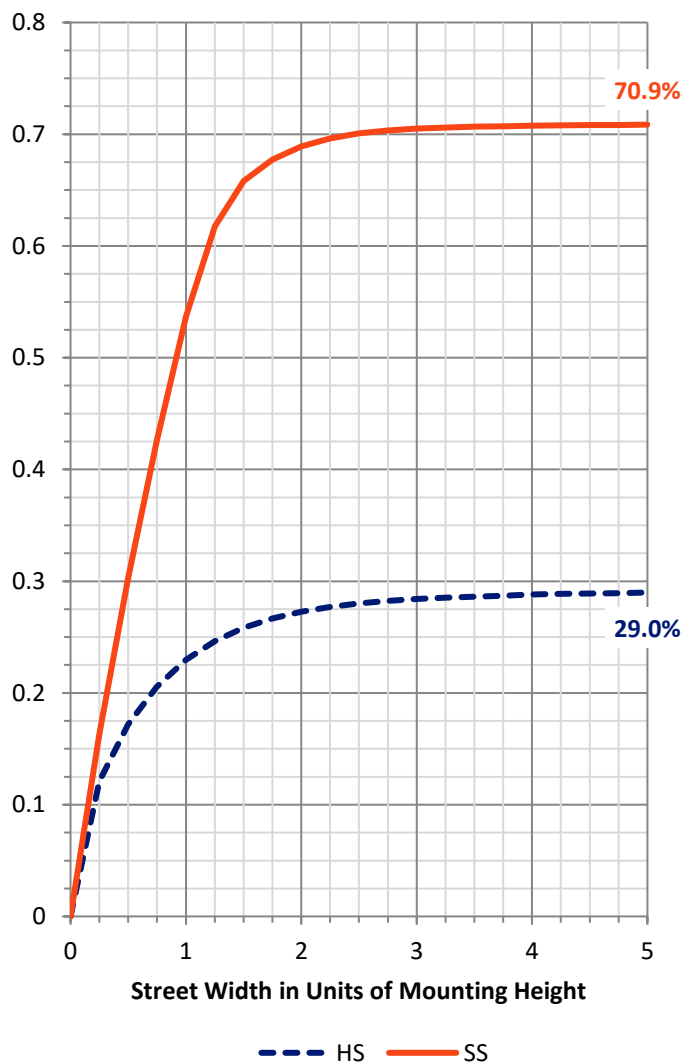
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1423.2	0.0	1423.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	3453.8	0.0	3453.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	4877.0	0.0	4877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	2.9
10°-20°	356.8	7.3
20°-30°	526.1	10.8
30°-40°	751.7	15.4
40°-50°	1034.5	21.2
50°-60°	1222.5	25.1
60°-70°	651.5	13.4
70°-80°	165.3	3.4
80°-90°	25.8	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°	4877.0	100.0
0°-180°	4877.0	100.0

Coefficient of Utilization

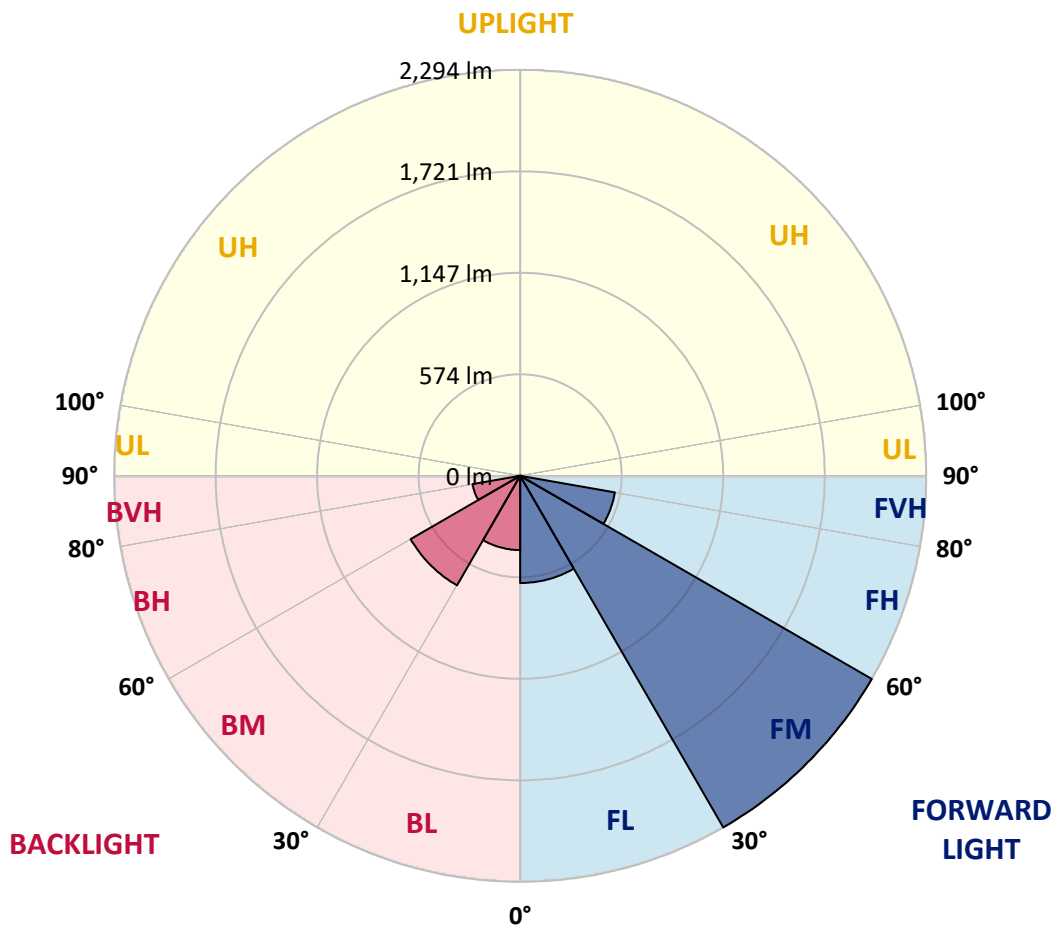


REPORT NUMBER: P526906
 CATALOG NUMBER: GALN-SA1D-827-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.9	12.4			
FM (30°-60°)	2294.0	47.0			
FH (60°-80°)	543.5	11.1			G0/660
FVH (80°-90°)	10.4	0.2			G1/100
BL (0°-30°)	419.8	8.6	B1/500		
BM (30°-60°)	714.7	14.7	B1/1000		
BH (60°-80°)	273.3	5.6	B1/500		G1/500
BVH (80°-90°)	15.4	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





REPORT NUMBER: P526906

CATALOG NUMBER: GALN-SA1D-827-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5
2.5°	1593.5	1579.7	1587.9	1584.7	1610.4	1617.9	1614.1	1617.3	1631.6	1624.8	1610.4
5°	1489.0	1508.4	1512.2	1521.5	1536.6	1566.0	1589.1	1595.4	1602.2	1634.1	1631.0
7.5°	1393.9	1407.0	1400.2	1427.7	1460.2	1507.8	1535.9	1540.9	1604.1	1621.6	1634.8
10°	1333.8	1320.7	1352.0	1359.5	1396.4	1450.8	1484.6	1505.3	1562.8	1632.3	1640.4
12.5°	1278.2	1273.8	1292.6	1313.8	1355.1	1411.4	1445.8	1454.0	1542.8	1616.0	1654.2
15°	1236.9	1231.9	1250.6	1266.3	1314.5	1364.5	1408.3	1431.4	1520.9	1606.6	1642.3
17.5°	1204.3	1203.7	1214.4	1242.5	1291.9	1333.8	1404.5	1405.8	1509.6	1621.0	1652.3
20°	1202.5	1201.8	1203.7	1235.0	1280.0	1331.3	1392.7	1403.9	1509.6	1611.0	1652.9
22.5°	1218.1	1208.1	1219.4	1239.4	1271.9	1335.7	1397.0	1422.1	1545.9	1660.4	1681.1
25°	1243.1	1245.6	1251.9	1258.8	1277.5	1345.7	1435.8	1456.5	1588.5	1703.0	1719.9
27.5°	1288.8	1287.5	1290.1	1293.8	1310.1	1355.1	1451.5	1504.6	1677.3	1778.7	1761.8
30°	1355.7	1351.4	1361.4	1374.5	1359.5	1385.1	1503.4	1543.4	1759.9	1855.0	1808.7
32.5°	1416.4	1432.7	1451.5	1457.1	1439.0	1444.0	1572.2	1612.9	1828.7	1948.8	1866.3
35°	1492.1	1505.3	1530.3	1547.8	1544.7	1529.7	1666.1	1719.9	1928.2	2017.7	1926.9
37.5°	1566.0	1581.6	1622.9	1674.8	1646.0	1639.2	1766.2	1810.6	1958.9	2054.6	1971.4
40°	1684.8	1684.2	1755.5	1782.4	1808.1	1796.2	1870.0	1885.0	1975.1	2046.4	1972.6
42.5°	1824.3	1815.6	1888.2	1930.1	1963.2	1964.5	1978.2	1973.2	1982.6	2005.1	1959.5
45°	1957.0	1975.7	2048.9	2124.0	2157.2	2160.9	2069.6	2060.2	1995.8	1993.3	1934.5
47.5°	2119.0	2123.4	2183.5	2282.3	2359.3	2333.0	2187.8	2167.2	2053.3	2072.7	1976.4
50°	2128.4	2160.9	2214.7	2331.1	2567.6	2560.7	2341.1	2302.3	2145.9	2185.3	2093.4
52.5°	1932.0	1924.4	1988.3	2178.4	2552.0	2787.2	2595.1	2502.5	2344.9	2314.8	2282.9
55°	1472.1	1489.6	1545.9	1738.0	2216.0	2790.3	2941.1	2865.4	2557.6	2506.3	2469.4
56°	1291.3	1293.8	1347.0	1522.2	2022.0	2690.8	3006.8	2945.5	2663.3	2585.1	2528.8
57.5°	1070.5	1056.1	1083.6	1179.3	1706.7	2480.6	2934.8	2994.9	2787.2	2670.2	2592.0
60°	842.7	839.6	828.3	845.9	1078.6	1868.8	2443.1	2578.2	2774.7	2590.1	2482.5
62.5°	688.2	672.6	695.1	720.1	749.5	1159.3	1716.7	1796.2	2202.8	2067.7	1865.0
65°	533.7	526.2	554.3	635.6	653.2	736.4	977.9	1039.2	1300.7	1277.5	1124.9
67.5°	367.2	368.5	392.9	516.8	605.6	598.1	598.7	630.6	678.8	504.3	439.2
70°	232.7	232.1	245.2	332.8	487.4	492.4	467.3	458.0	434.2	262.8	278.4
72.5°	149.5	145.1	152.0	183.9	252.1	291.5	300.3	305.9	251.5	206.5	224.0
75°	84.5	80.1	77.6	85.7	99.5	115.1	126.4	130.1	145.8	156.4	165.8
77.5°	25.7	23.1	28.2	37.5	49.4	66.3	80.7	83.2	98.2	110.7	120.1
80°	11.3	12.5	17.5	25.0	35.0	46.9	56.9	60.7	70.7	80.1	82.6
82.5°	6.9	7.5	11.9	16.9	24.4	33.2	40.7	41.9	51.9	59.4	61.3
85°	2.5	3.1	6.3	10.0	15.6	21.3	21.3	23.1	21.3	21.3	23.1
87.5°	0.0	0.0	0.6	1.3	1.3	1.9	2.5	2.5	3.1	3.8	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P526906

CATALOG NUMBER: GALN-SA1D-827-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5	1613.5
2.5°	1617.9	1614.8	1609.8	1591.6	1589.7	1584.1	1552.8	1547.8	1552.8	1537.8	1539.1
5°	1614.8	1624.1	1586.6	1568.5	1534.7	1510.3	1482.1	1467.7	1442.1	1425.8	1444.0
7.5°	1628.5	1624.8	1577.8	1538.4	1487.8	1425.8	1376.4	1348.2	1303.2	1290.7	1300.1
10°	1623.5	1603.5	1548.4	1496.5	1400.8	1346.4	1266.3	1188.7	1146.2	1124.3	1121.1
12.5°	1616.6	1611.0	1519.0	1429.6	1328.8	1214.4	1101.7	1028.5	959.1	929.1	933.4
15°	1624.8	1577.2	1464.0	1350.7	1216.9	1066.7	945.3	850.9	802.7	783.3	783.3
17.5°	1621.0	1561.0	1437.7	1262.5	1093.0	915.3	782.0	725.1	705.1	705.1	710.7
20°	1622.9	1571.6	1384.5	1174.3	946.6	770.8	673.8	653.2	661.9	665.0	668.2
22.5°	1633.5	1536.6	1332.6	1077.3	810.8	659.4	611.9	612.5	628.1	645.0	641.9
25°	1646.7	1522.8	1269.4	981.0	707.0	605.0	590.0	588.1	600.0	608.7	610.0
27.5°	1635.4	1499.0	1205.0	860.9	621.9	568.7	565.6	566.8	570.6	588.1	582.5
30°	1672.3	1505.9	1124.3	760.1	575.0	556.8	553.1	551.2	556.8	561.8	557.4
32.5°	1718.0	1481.5	1064.2	663.2	551.8	548.1	540.5	538.0	541.2	536.2	538.7
35°	1738.0	1477.1	986.0	593.7	533.7	530.5	526.2	525.5	526.2	521.8	518.0
37.5°	1749.3	1497.8	896.5	561.8	522.4	525.5	515.5	514.3	503.0	505.5	507.4
40°	1768.7	1465.9	824.0	531.2	515.5	509.3	500.5	498.6	491.1	486.7	491.1
42.5°	1740.5	1456.5	752.6	518.0	505.5	498.6	492.4	481.7	479.2	475.5	473.0
45°	1718.0	1402.7	688.8	501.8	493.6	489.9	478.0	466.7	457.3	461.1	455.5
47.5°	1734.9	1383.9	625.6	488.0	477.4	473.0	461.1	452.3	442.9	438.6	437.3
50°	1802.4	1418.9	572.5	478.0	463.6	461.1	445.4	435.4	426.7	423.6	424.8
52.5°	1963.9	1514.7	536.2	457.3	450.5	439.2	430.4	417.9	412.3	402.3	408.5
55°	2168.4	1670.4	526.8	437.9	434.2	424.2	412.3	402.9	392.3	384.1	382.3
56°	2234.1	1744.9	519.3	430.4	424.2	418.5	402.9	397.3	380.4	378.5	377.3
57.5°	2287.3	1810.6	520.5	416.0	409.8	404.8	395.4	381.6	370.4	363.5	366.6
60°	2167.2	1694.8	496.8	394.1	392.9	383.5	370.4	364.1	350.4	342.2	340.3
62.5°	1611.0	1150.5	402.9	366.0	365.4	355.4	340.3	333.5	331.0	319.7	319.7
65°	927.8	721.4	348.5	342.8	337.8	327.8	312.8	307.2	300.9	297.2	294.0
67.5°	396.0	374.1	316.6	315.9	310.3	297.8	282.8	274.0	265.9	258.4	262.1
70°	287.2	291.5	285.9	282.8	275.9	260.3	247.1	236.5	224.0	219.0	222.7
72.5°	227.7	237.1	245.2	245.9	237.7	219.6	205.2	190.8	177.1	170.2	173.3
75°	172.7	178.9	187.1	188.9	177.1	164.5	150.8	135.8	125.1	117.0	118.2
77.5°	124.5	123.2	130.8	129.5	123.9	115.1	102.6	88.8	77.0	69.4	70.1
80°	85.1	87.0	91.3	90.7	83.8	78.2	68.8	57.6	48.8	42.5	41.3
82.5°	59.4	62.6	66.3	63.2	57.6	51.9	45.0	36.9	30.0	25.0	23.8
85°	21.3	24.4	28.2	30.0	31.9	30.7	25.7	20.6	15.0	12.5	11.9
87.5°	4.4	5.0	5.6	5.6	5.6	5.0	4.4	4.4	3.8	1.9	1.9
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)