

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: P450895

Luminaire Tested: **GALN-SA1D-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6489 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

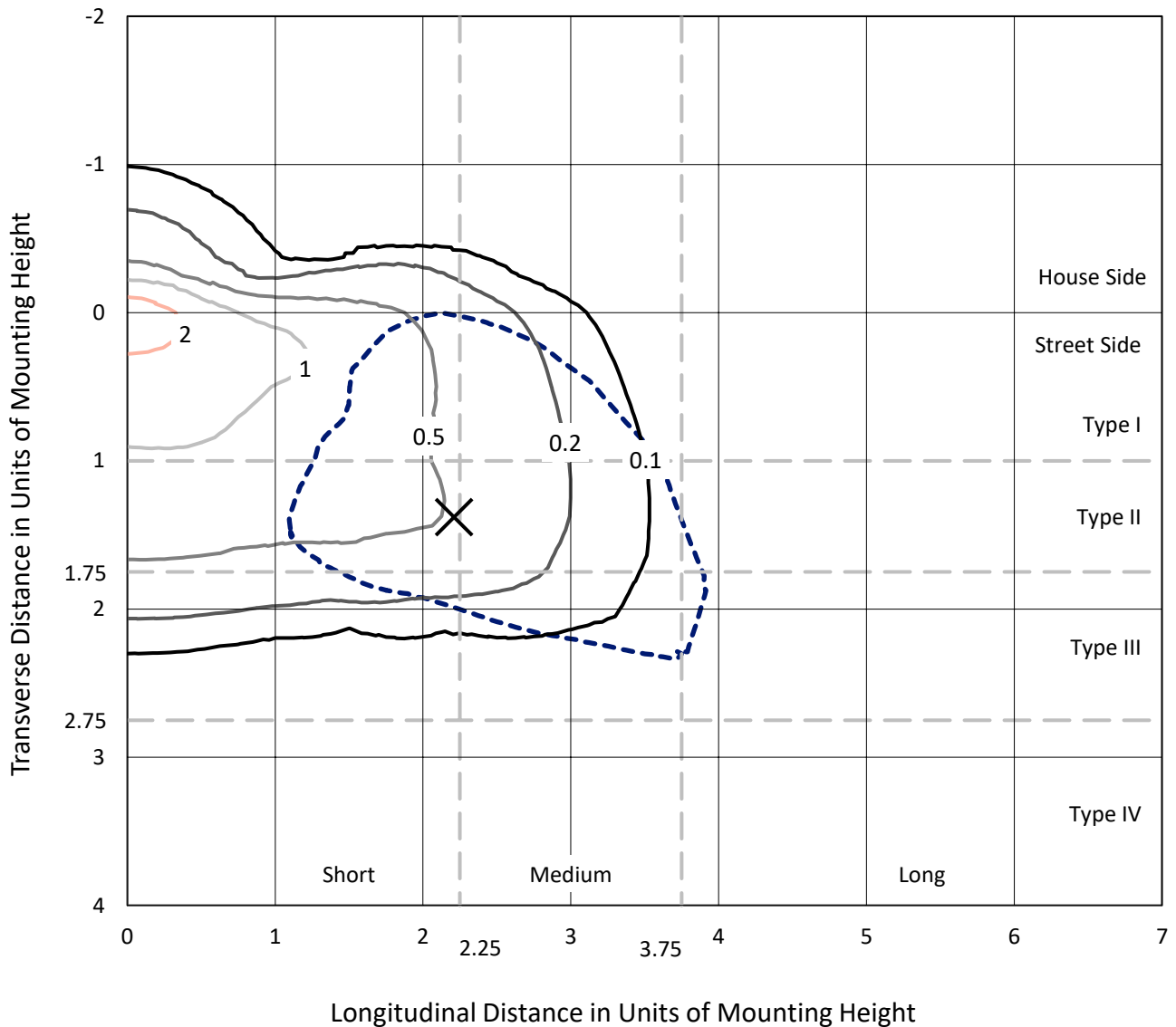
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

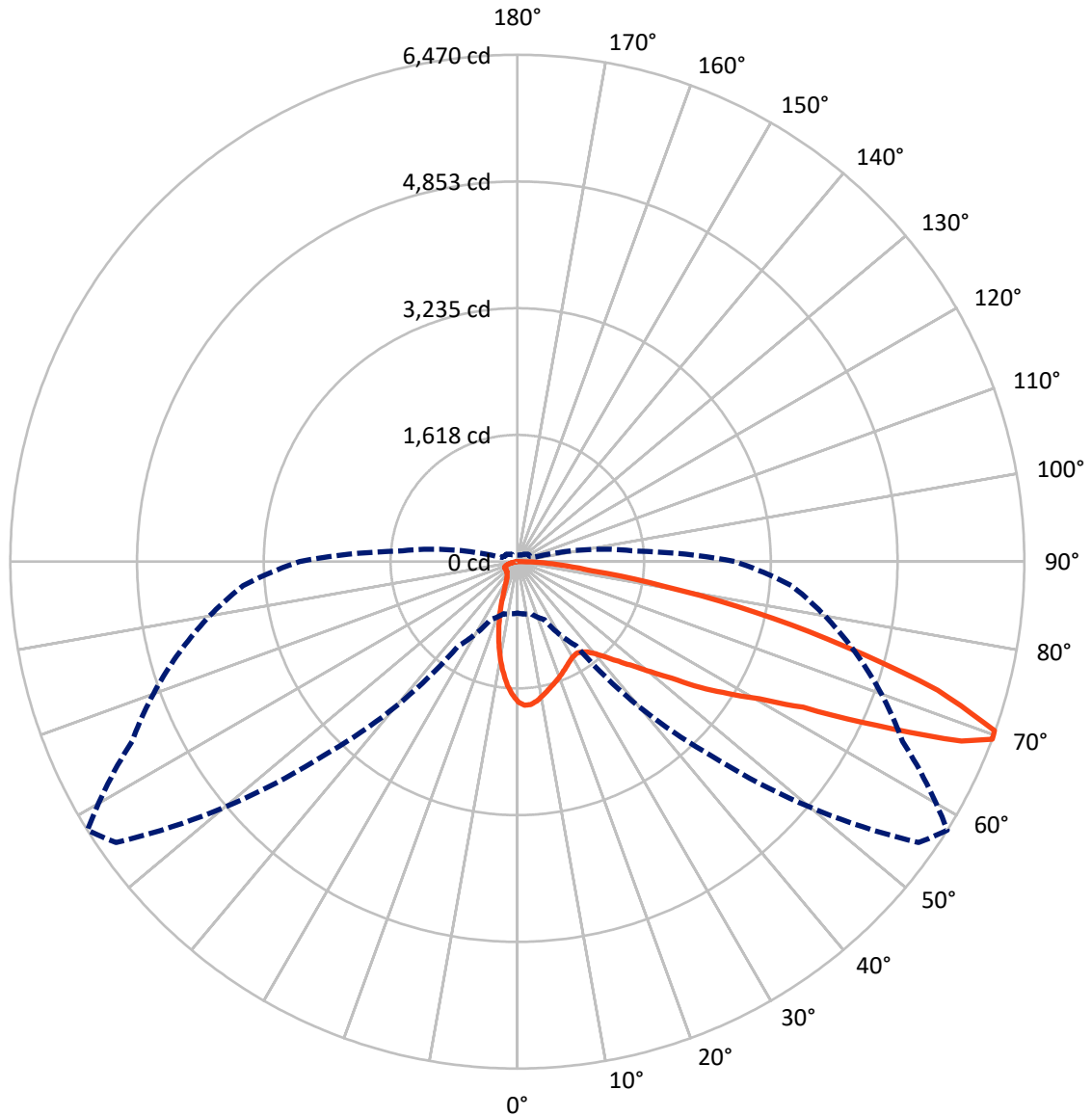
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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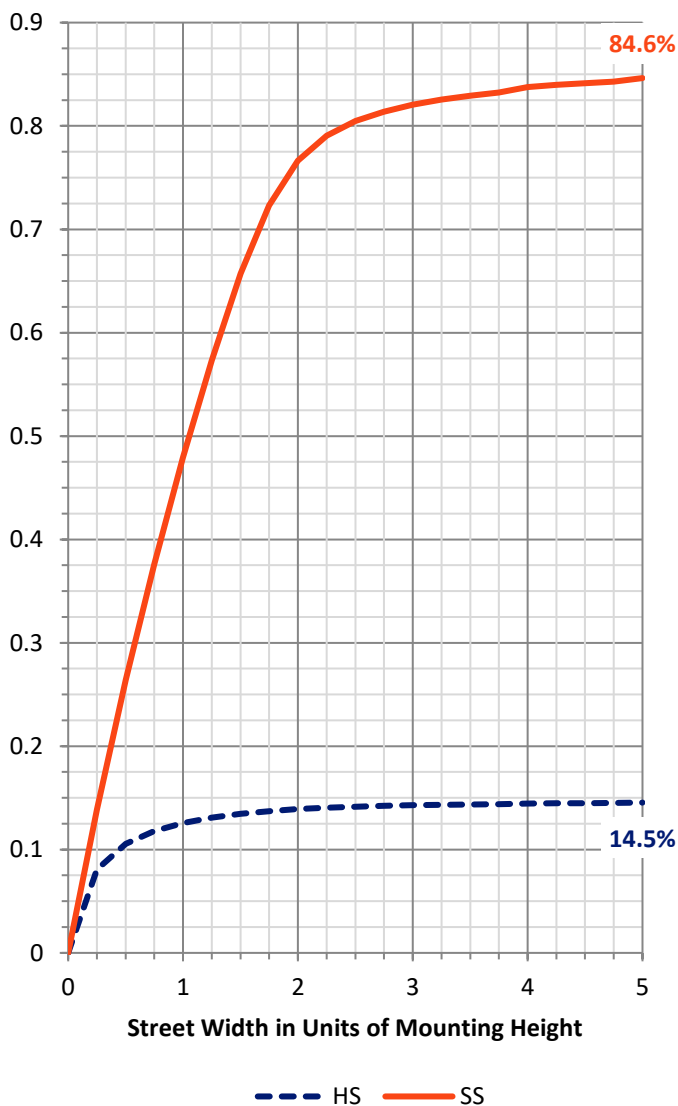
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	951.0	0.0	951.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5538.0	0.0	5538.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	6489.0	0.0	6489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	2.3
10°-20°	334.4	5.2
20°-30°	432.0	6.7
30°-40°	561.1	8.6
40°-50°	815.8	12.6
50°-60°	1301.8	20.1
60°-70°	1739.0	26.8
70°-80°	1002.5	15.4
80°-90°	150.1	2.3
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°	6489.0	100.0
0°-180°	6489.0	100.0

Coefficient of Utilization



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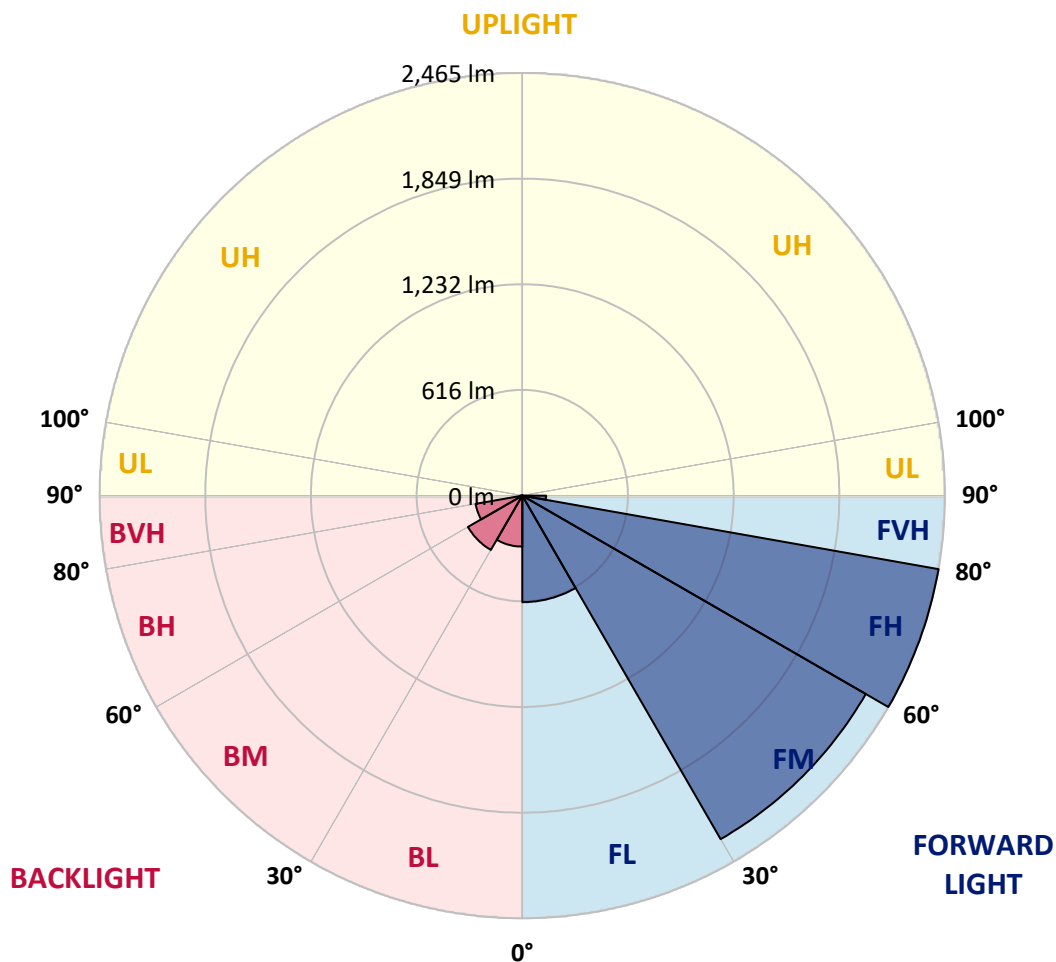
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	621.5	9.6			
FM (30°-60°)	2313.0	35.6			
FH (60°-80°)	2464.9	38.0			G2/5000
FVH (80°-90°)	138.6	2.1			G2/225
BL (0°-30°)	297.2	4.6	B1/500		
BM (30°-60°)	365.7	5.6	B1/1000		
BH (60°-80°)	276.5	4.3	B1/500		G1/500
BVH (80°-90°)	11.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1793.2	1793.2	1793.2	1793.2	1793.2	1793.2	1793.2	1793.2	1793.2	1793.2	1793.2
2.5°	1859.8	1864.8	1863.4	1861.6	1858.7	1850.7	1837.7	1835.5	1827.2	1809.5	1787.4
5°	1831.2	1835.5	1835.9	1838.4	1842.0	1840.6	1831.2	1830.1	1817.8	1793.9	1757.0
7.5°	1733.1	1738.9	1751.6	1765.7	1778.3	1790.3	1793.2	1795.0	1787.4	1759.9	1710.7
10°	1622.7	1628.5	1634.3	1655.3	1686.4	1716.1	1740.7	1744.0	1745.8	1720.4	1660.4
12.5°	1500.4	1512.4	1524.7	1555.8	1597.4	1644.1	1687.5	1694.4	1706.7	1687.5	1616.9
15°	1396.5	1408.8	1426.6	1454.4	1504.8	1572.1	1633.2	1644.4	1668.7	1658.9	1576.4
17.5°	1324.5	1328.9	1341.2	1373.0	1427.3	1498.2	1580.0	1602.5	1641.2	1638.7	1541.7
20°	1267.7	1273.1	1280.7	1300.3	1356.7	1431.6	1530.4	1559.4	1611.9	1620.6	1507.3
22.5°	1243.8	1247.8	1246.7	1257.2	1295.6	1370.9	1480.1	1514.5	1585.8	1608.3	1475.4
25°	1245.3	1248.9	1243.5	1240.9	1263.7	1317.3	1427.7	1471.5	1564.8	1599.9	1446.5
27.5°	1269.5	1272.1	1261.9	1251.8	1253.6	1284.0	1384.2	1432.7	1547.1	1603.5	1422.2
30°	1302.1	1306.8	1300.3	1288.0	1274.6	1276.0	1356.4	1404.1	1538.8	1616.2	1410.7
32.5°	1344.1	1348.4	1345.5	1335.7	1318.4	1299.2	1349.5	1393.6	1539.5	1641.9	1408.1
35°	1388.2	1396.9	1401.6	1400.9	1386.8	1353.5	1376.6	1413.2	1556.9	1685.0	1423.0
37.5°	1438.2	1445.4	1465.7	1478.7	1465.7	1426.9	1437.8	1463.1	1595.2	1747.2	1455.5
40°	1486.7	1497.5	1527.2	1567.7	1562.7	1528.6	1531.2	1547.8	1662.9	1839.9	1519.2
42.5°	1537.3	1550.3	1602.1	1662.2	1674.1	1647.7	1654.6	1669.4	1759.2	1968.3	1628.5
45°	1602.5	1618.0	1681.7	1756.6	1803.7	1787.4	1806.9	1814.2	1888.0	2135.5	1772.6
47.5°	1686.4	1704.5	1783.0	1876.4	1943.0	1957.8	1991.9	1987.5	2047.6	2333.5	1959.3
50°	1827.9	1838.1	1912.2	2007.4	2099.0	2165.9	2202.8	2209.7	2245.5	2526.0	2168.1
52.5°	1996.2	2005.2	2058.8	2142.0	2256.8	2398.6	2489.8	2467.4	2476.1	2760.5	2412.4
55°	2185.5	2200.7	2234.7	2290.1	2438.8	2647.6	2830.7	2836.2	2739.9	2984.9	2646.5
57.5°	2332.0	2357.7	2416.0	2494.9	2683.4	2924.5	3170.5	3174.2	3051.1	3224.5	2904.9
60°	2258.2	2288.6	2421.8	2614.0	3004.4	3407.6	3576.6	3556.0	3354.0	3497.3	3220.1
62.5°	1939.7	1945.2	2138.8	2439.2	3103.2	4053.9	4180.9	4093.7	3758.3	3843.3	3540.4
65°	1255.4	1290.9	1444.3	1865.2	2778.6	4412.6	5239.8	5038.3	4325.0	4236.0	3808.6
67.5°	792.5	783.5	847.2	1065.1	1911.2	4096.6	6143.5	6111.6	5066.1	4483.9	3744.5
69°	657.2	667.3	689.0	816.4	1315.1	3497.7	6250.3	6470.3	5425.5	4464.3	3511.8
70°	596.0	600.7	623.5	723.8	1014.7	2929.5	6075.1	6460.5	5566.6	4382.5	3343.2
72.5°	473.0	472.6	511.7	602.2	758.5	1672.3	4988.3	5609.0	5408.9	4001.8	2762.3
75°	359.4	365.2	408.2	509.5	698.8	913.8	3481.0	4319.6	4319.9	3160.8	1723.7
77.5°	259.1	262.7	313.0	427.8	658.3	740.8	2318.6	3098.2	2912.5	1448.3	541.8
80°	169.7	171.9	210.3	338.7	593.5	698.8	1374.8	1896.3	1373.7	384.3	179.1
82.5°	93.0	103.9	128.5	219.3	476.3	645.6	835.6	959.7	515.3	171.2	93.4
85°	46.7	49.6	72.4	128.1	311.2	534.2	581.9	550.4	266.0	85.0	48.5
87.5°	13.8	17.4	30.0	49.6	126.3	278.3	323.9	290.6	102.4	30.8	10.1
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°	1793.2	1793.2	1793.2	1793.2	1793.2	1793.2	1793.2	1793.2	1793.2	1793.2	1793.2
2.5°	1778.3	1771.8	1742.9	1716.8	1692.9	1667.6	1646.3	1627.4	1629.2	1629.6	1610.4
5°	1737.8	1723.0	1668.0	1616.6	1573.1	1518.1	1471.1	1440.7	1425.5	1405.2	1412.5
7.5°	1682.8	1654.2	1577.9	1492.4	1412.5	1341.2	1263.7	1210.5	1176.5	1143.6	1147.9
10°	1626.0	1580.0	1468.9	1356.0	1252.5	1138.5	1039.7	955.0	892.1	868.5	853.0
12.5°	1567.7	1507.3	1366.1	1216.0	1073.0	936.6	796.5	705.7	636.2	599.3	604.0
15°	1514.5	1441.1	1259.0	1075.9	890.3	727.8	588.1	501.6	453.1	443.0	448.7
17.5°	1465.3	1369.0	1158.8	939.8	723.1	545.7	441.9	393.0	373.5	368.0	367.7
20°	1414.6	1307.9	1046.2	794.4	563.5	423.1	362.6	339.8	336.2	338.4	338.7
22.5°	1363.3	1232.2	930.4	650.0	448.7	346.0	317.0	310.9	313.8	318.8	319.6
25°	1315.8	1165.7	819.0	523.3	358.3	304.0	289.9	289.9	296.4	304.0	304.4
27.5°	1276.8	1101.2	707.9	415.5	300.0	273.6	268.9	271.4	280.5	286.3	286.6
30°	1244.5	1041.2	602.9	332.9	263.8	249.3	248.3	252.6	259.1	264.5	264.9
32.5°	1220.3	988.3	504.8	279.7	238.8	230.9	230.5	233.8	237.4	238.8	240.3
35°	1210.9	944.5	415.1	246.1	222.2	217.1	217.1	216.8	218.2	218.9	219.7
37.5°	1218.5	910.9	345.6	224.4	209.9	206.3	204.1	201.9	201.2	201.2	201.6
40°	1250.7	893.2	293.9	210.3	201.2	195.8	191.8	189.3	186.7	187.5	188.2
42.5°	1319.1	896.4	258.8	200.9	193.6	186.0	180.2	177.3	175.5	177.7	177.3
45°	1428.0	929.0	236.3	194.3	186.0	176.2	170.8	167.9	167.9	171.2	172.3
47.5°	1580.4	991.2	224.4	189.3	180.2	168.6	163.2	161.0	161.8	167.2	167.6
50°	1766.4	1099.4	222.2	186.7	177.3	163.2	157.1	154.9	156.7	162.5	163.2
52.5°	1971.6	1238.8	232.7	187.1	174.8	160.0	152.0	148.7	150.5	155.3	156.7
55°	2214.8	1413.2	259.8	188.5	171.2	158.1	148.4	141.1	143.3	146.6	146.9
57.5°	2463.0	1633.2	307.6	188.9	168.3	154.9	142.2	132.8	132.8	135.0	136.1
60°	2766.3	1872.8	370.6	189.3	168.6	150.2	133.9	123.4	122.0	123.0	123.4
62.5°	3067.4	2073.3	381.1	188.2	172.3	145.5	124.9	114.0	111.5	111.1	110.4
65°	3200.2	2036.0	312.3	183.1	176.2	142.6	117.6	104.9	100.6	99.2	99.2
67.5°	2983.8	1722.2	234.9	176.2	173.7	139.7	110.7	97.3	92.3	89.4	89.4
69°	2780.4	1531.9	211.0	171.5	167.2	135.0	106.4	93.4	87.2	84.0	82.9
70°	2623.4	1400.9	200.9	167.6	161.0	129.6	103.1	90.5	83.6	80.0	79.3
72.5°	2093.6	1099.1	175.9	152.4	137.2	108.9	91.6	81.4	74.9	70.9	69.8
75°	1206.6	595.7	145.8	132.5	110.4	84.7	77.4	70.9	65.9	62.2	61.2
77.5°	371.3	230.2	105.7	104.6	81.1	65.5	61.9	59.4	55.7	51.8	51.0
80°	156.3	117.3	71.7	70.6	53.9	45.6	44.5	44.2	42.7	39.4	38.4
82.5°	85.8	66.2	49.9	43.4	32.6	26.4	27.5	27.9	26.8	23.5	21.4
85°	42.0	36.2	24.2	19.5	14.8	9.4	9.0	10.9	10.1	7.2	8.0
87.5°	8.3	10.1	6.5	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0
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)