

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: P382801

Luminaire Tested: **GLEON-SA1D-735-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382801  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1D-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7413.3 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

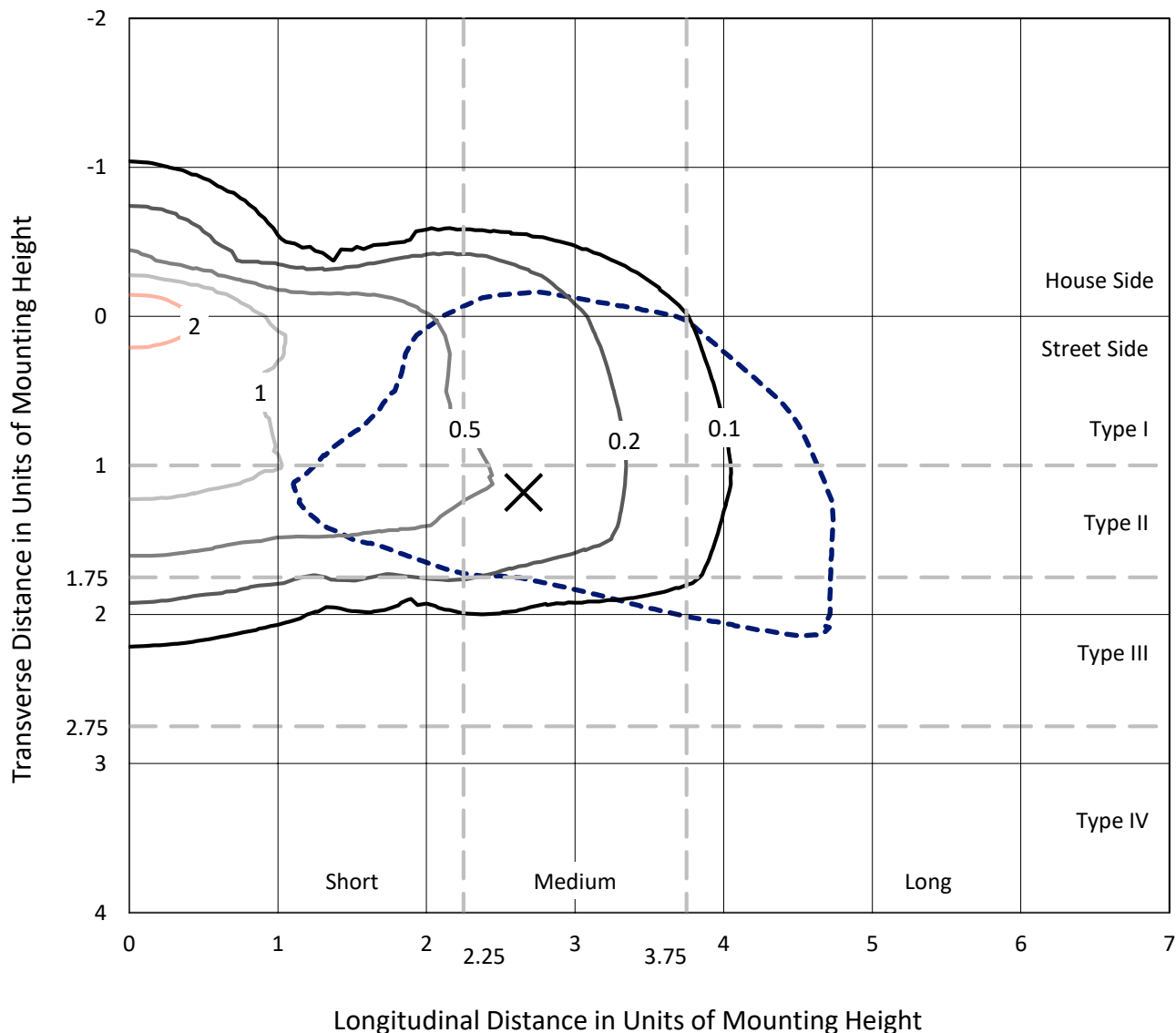
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

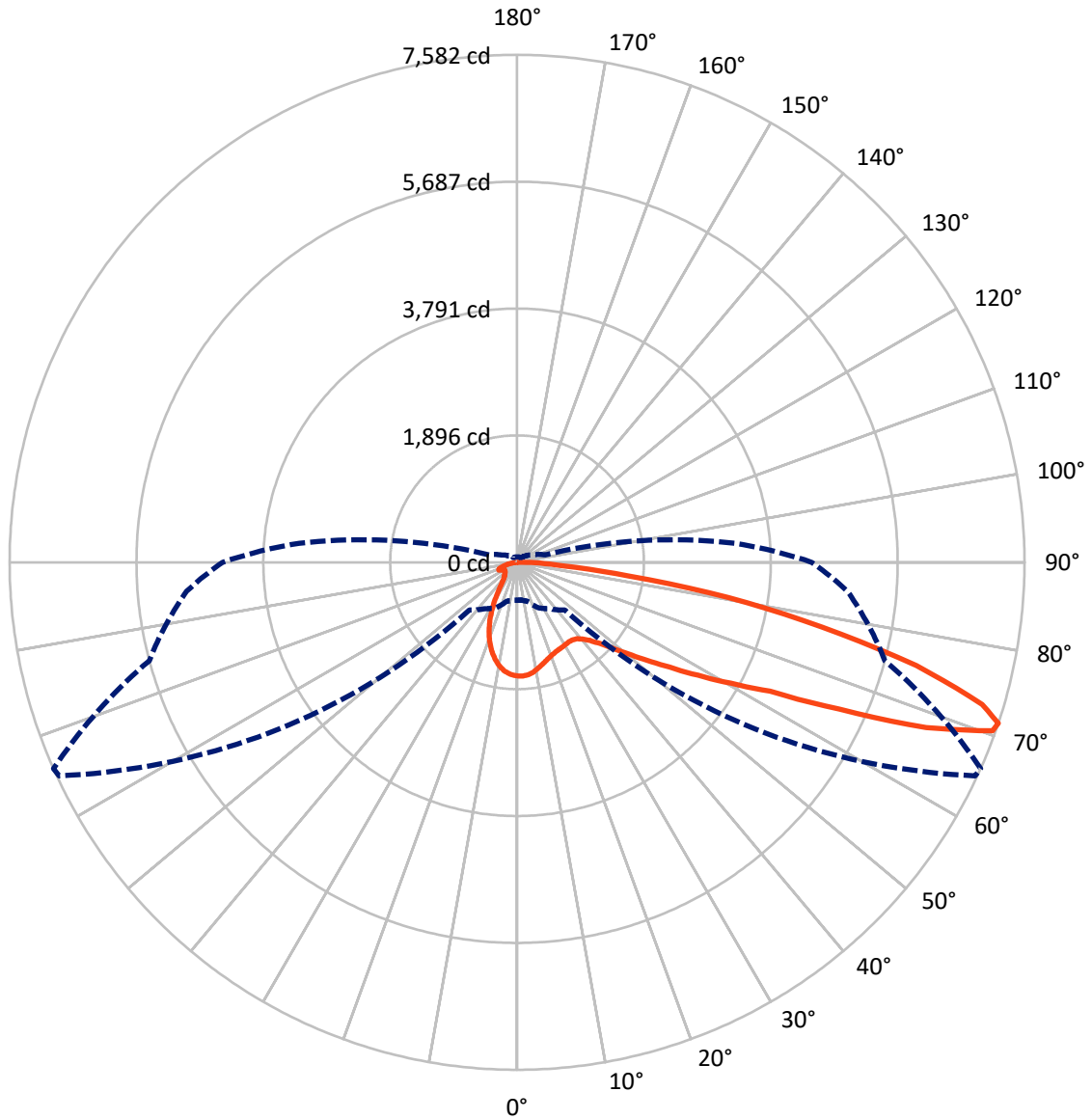
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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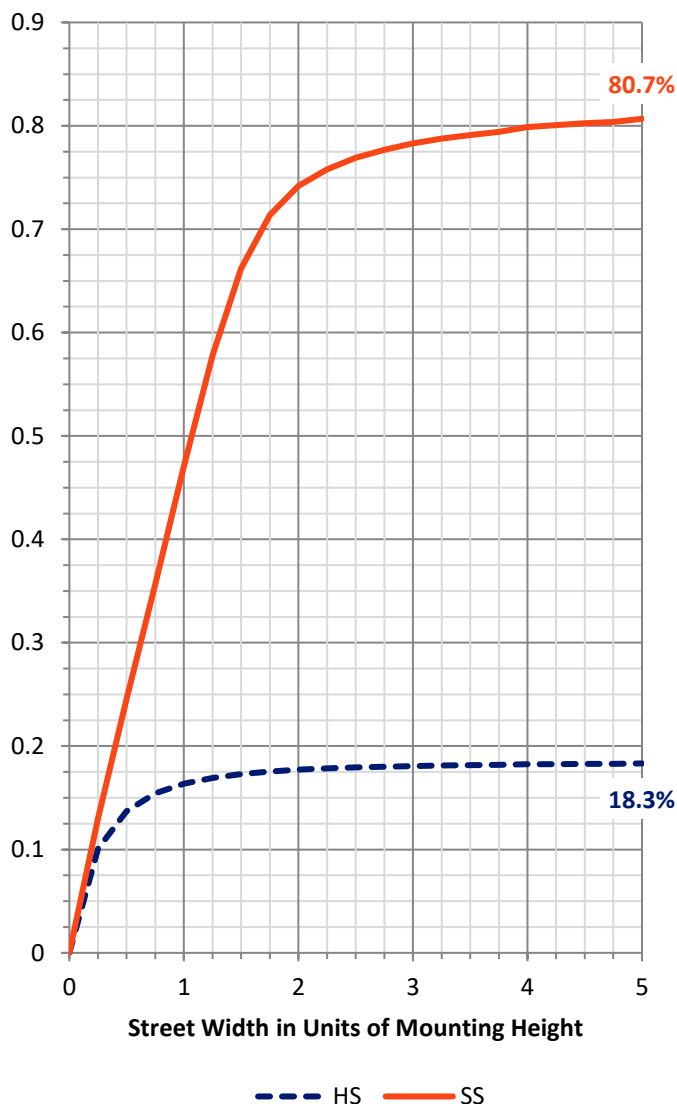
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1373.9	0.0	1373.9
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	6039.4	0.0	6039.4
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	7413.3	0.0	7413.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.5	2.0
10°-20°	358.5	4.8
20°-30°	481.6	6.5
30°-40°	633.5	8.5
40°-50°	921.6	12.4
50°-60°	1439.7	19.4
60°-70°	1803.4	24.3
70°-80°	1375.6	18.6
80°-90°	249.8	3.4
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°	7413.3	100.0
0°-180°	7413.3	100.0

**Coefficient of Utilization**

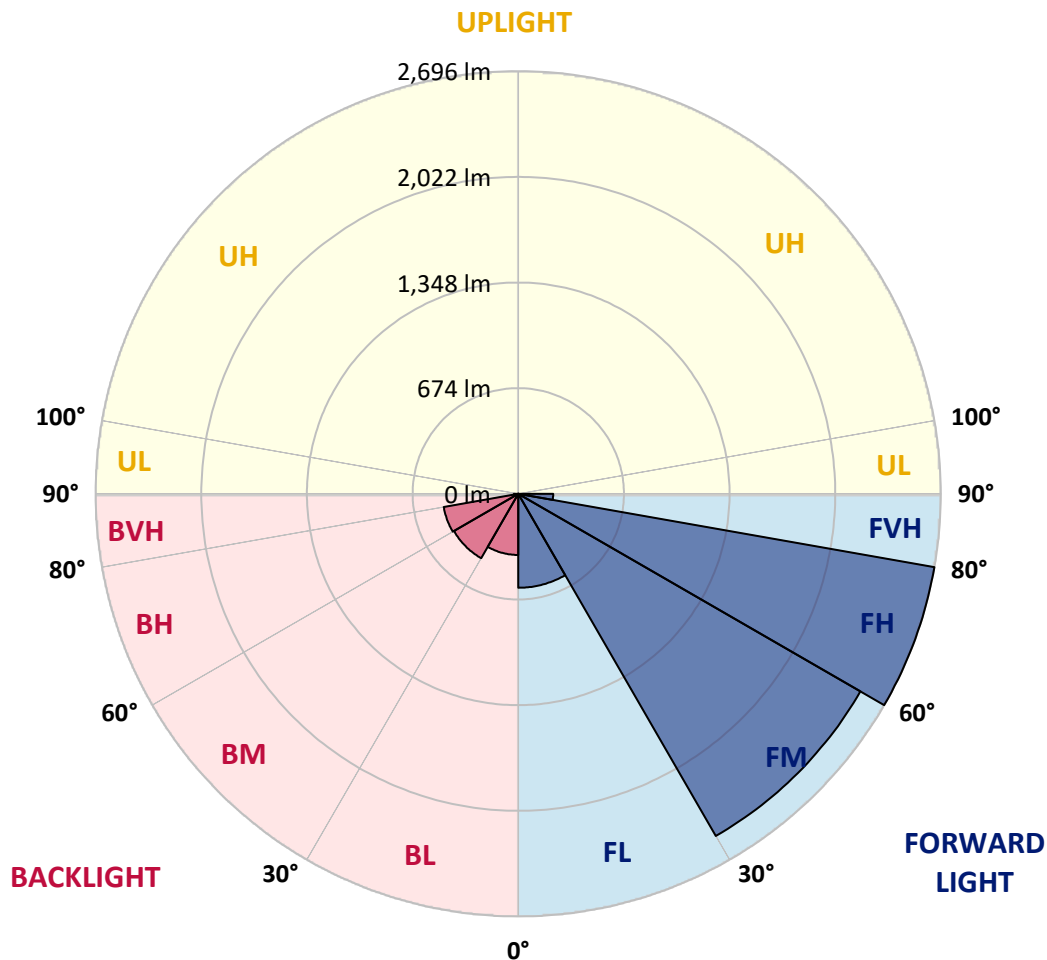


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.5	8.1			
FM (30°-60°)	2520.9	34.0			
FH (60°-80°)	2696.3	36.4			G2/5000
FVH (80°-90°)	222.8	3.0			G2/225
BL (0°-30°)	390.1	5.3	B1/500		
BM (30°-60°)	473.9	6.4	B1/1000		
BH (60°-80°)	482.8	6.5	B1/500		G1/500
BVH (80°-90°)	27.0	0.4			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2
2.5°	1666.7	1664.2	1671.8	1679.8	1682.8	1688.0	1695.7	1700.0	1699.8	1700.5	1697.9
5°	1556.2	1552.9	1568.2	1580.7	1604.8	1632.0	1665.0	1688.5	1689.0	1702.3	1705.9
7.5°	1451.5	1449.2	1466.8	1487.0	1515.0	1556.4	1609.9	1660.6	1663.7	1699.8	1712.3
10°	1367.5	1367.0	1384.2	1406.2	1438.7	1485.0	1546.5	1620.7	1625.3	1687.5	1713.3
12.5°	1302.0	1303.0	1317.9	1343.0	1377.3	1425.6	1492.2	1575.9	1583.4	1668.0	1707.4
15°	1253.7	1257.8	1269.8	1295.1	1328.9	1378.0	1446.4	1534.4	1545.7	1646.2	1704.1
17.5°	1226.0	1230.6	1239.1	1260.0	1291.8	1339.1	1403.9	1500.4	1510.6	1629.6	1704.4
20°	1217.8	1221.6	1226.5	1239.3	1266.2	1309.2	1370.4	1469.7	1480.7	1616.3	1707.0
22.5°	1233.9	1236.7	1237.3	1236.3	1252.7	1287.7	1346.1	1447.2	1458.9	1607.7	1708.7
25°	1268.5	1272.3	1269.5	1260.0	1254.7	1276.1	1333.5	1432.3	1444.1	1601.2	1705.1
27.5°	1320.5	1320.9	1318.7	1306.4	1281.1	1277.4	1329.7	1423.6	1434.9	1593.8	1697.7
30°	1391.1	1394.4	1390.3	1373.7	1332.2	1297.9	1334.3	1415.1	1425.4	1584.4	1685.7
32.5°	1473.8	1482.0	1481.7	1464.3	1405.0	1343.8	1353.2	1410.0	1418.0	1574.3	1671.1
35°	1559.5	1570.8	1591.7	1584.4	1510.9	1416.1	1389.6	1418.2	1423.6	1573.1	1660.9
37.5°	1648.6	1659.8	1703.1	1723.1	1637.1	1519.8	1446.9	1447.2	1449.7	1588.7	1660.1
40°	1741.7	1753.7	1818.8	1870.7	1800.6	1651.2	1539.3	1507.5	1504.7	1627.0	1675.2
42.5°	1872.3	1883.0	1961.1	2027.4	1982.1	1819.3	1667.0	1600.7	1594.8	1702.3	1723.5
45°	2037.4	2046.6	2129.5	2200.4	2177.1	2011.3	1827.5	1729.0	1727.9	1827.8	1821.6
47.5°	2233.7	2240.8	2315.4	2383.9	2392.4	2232.2	2029.2	1926.8	1910.1	1999.8	1973.4
50°	2438.2	2446.2	2496.8	2570.5	2633.2	2527.8	2288.7	2169.2	2146.9	2226.8	2188.4
52.5°	2573.6	2584.1	2628.1	2721.5	2904.0	2851.8	2595.6	2463.0	2429.2	2502.0	2472.5
55°	2513.2	2536.7	2604.0	2753.7	3120.6	3346.8	2974.2	2805.7	2767.6	2828.0	2810.6
57.5°	2238.5	2270.8	2362.7	2593.8	3151.1	3782.9	3546.5	3209.4	3182.4	3165.1	3173.0
60°	1736.6	1767.6	1881.5	2182.7	2938.8	4101.3	4407.7	3706.9	3668.1	3503.5	3510.6
62.5°	1229.1	1213.4	1291.5	1511.9	2388.0	4138.7	5387.8	4372.4	4244.4	3860.8	3829.3
65°	937.3	933.7	968.8	1038.9	1446.4	3691.5	5971.6	5490.9	5291.0	4281.0	4206.8
67.5°	770.1	763.8	798.3	900.4	931.4	2381.6	5984.4	6788.6	6592.3	4804.2	4643.5
70°	633.3	626.1	658.3	790.1	860.7	1207.8	5036.6	7548.5	7538.0	5466.6	4973.2
71°	567.7	562.6	601.2	747.7	845.7	1006.6	4348.6	7550.6	7582.1	5690.8	4953.7
72.5°	462.2	464.0	505.0	665.5	834.4	888.9	3196.0	7198.6	7265.1	5904.5	4776.8
75°	307.1	308.7	362.5	511.9	809.0	869.7	1756.6	6040.4	6162.7	5776.5	4358.8
77.5°	206.3	205.8	242.4	351.2	704.9	869.7	1029.9	4517.8	4652.1	4596.3	3360.4
80°	142.1	141.0	166.8	242.4	533.7	880.2	796.3	3166.1	3206.9	2482.2	1365.7
82.5°	87.0	87.8	109.0	171.2	363.2	792.2	751.8	1726.3	1682.1	696.1	341.2
85°	49.9	49.7	69.6	116.0	233.2	668.6	733.0	743.0	681.6	209.6	123.3
87.5°	17.9	19.2	37.4	64.3	133.6	465.6	622.0	386.5	348.3	94.7	55.8
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°	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2
2.5°	1696.2	1697.7	1696.0	1685.7	1677.0	1662.9	1655.0	1644.0	1640.6	1639.2	1643.2
5°	1702.6	1703.1	1688.0	1661.1	1631.0	1595.4	1569.8	1538.3	1523.5	1517.0	1521.1
7.5°	1708.5	1706.1	1673.2	1621.7	1565.9	1504.0	1448.9	1398.5	1369.1	1357.1	1358.1
10°	1709.2	1699.5	1646.5	1567.0	1480.4	1389.6	1305.1	1227.3	1178.1	1146.2	1155.9
12.5°	1701.3	1684.9	1607.4	1496.1	1376.0	1252.1	1138.0	1021.3	951.1	918.6	919.6
15°	1695.1	1665.5	1559.2	1412.6	1251.3	1087.3	931.4	794.2	719.4	686.2	670.6
17.5°	1690.0	1644.5	1503.4	1318.7	1104.2	896.1	708.7	586.4	545.4	535.7	531.6
20°	1682.8	1622.2	1441.3	1209.9	936.5	682.1	517.6	457.1	457.4	468.7	470.2
22.5°	1672.9	1596.9	1375.0	1087.8	756.6	496.8	405.7	388.3	406.0	427.4	431.3
25°	1658.1	1567.0	1301.3	952.9	576.9	381.8	346.5	345.8	367.3	389.9	393.1
27.5°	1637.1	1527.7	1219.4	808.0	425.2	324.6	310.5	315.9	331.7	348.1	349.3
30°	1608.9	1482.2	1129.0	655.3	333.2	289.0	287.5	292.3	302.0	313.6	314.6
32.5°	1577.9	1435.9	1032.5	507.3	285.4	269.8	271.3	273.6	278.3	282.8	283.8
35°	1549.8	1388.6	933.7	385.5	262.6	257.2	256.2	255.7	256.2	254.7	255.0
37.5°	1531.7	1349.3	830.8	306.9	249.6	246.2	243.1	239.3	234.9	232.4	232.9
40°	1524.9	1320.2	726.6	265.1	238.8	236.5	230.7	222.5	217.3	215.7	215.7
42.5°	1542.8	1305.1	626.1	244.2	229.8	226.0	216.3	206.8	203.0	202.7	202.4
45°	1597.6	1311.2	530.3	232.7	221.6	214.3	201.4	193.5	191.0	191.4	191.2
47.5°	1696.0	1349.9	448.4	225.0	213.4	203.7	189.4	183.0	180.0	180.0	180.2
50°	1863.1	1440.3	383.1	218.5	206.5	194.0	180.7	172.8	168.7	168.4	168.4
52.5°	2106.5	1602.0	342.4	213.2	198.9	185.3	172.0	162.0	157.2	156.1	155.7
55°	2411.6	1833.8	331.2	209.6	188.6	175.9	161.5	151.6	146.2	143.8	143.6
57.5°	2752.7	2115.9	353.4	205.3	178.1	164.6	150.0	140.5	134.9	132.1	131.8
60°	3098.0	2423.9	444.3	199.2	169.4	152.3	138.2	129.5	123.9	120.8	120.3
62.5°	3443.8	2748.4	629.9	198.6	163.3	140.5	126.2	118.8	113.4	110.0	109.3
65°	3833.9	3103.6	840.8	212.2	161.3	129.8	113.9	108.0	103.4	100.3	100.0
67.5°	4281.8	3504.8	820.6	240.1	168.1	120.1	102.4	97.8	94.5	91.9	91.7
70°	4491.9	3442.1	510.1	259.8	177.9	110.6	91.4	88.0	85.5	83.7	82.9
71°	4403.9	3268.2	427.7	257.5	176.9	106.5	87.0	84.5	81.9	80.4	79.6
72.5°	4163.8	2980.6	356.8	239.6	165.3	99.0	81.4	78.8	76.6	74.7	74.2
75°	3736.3	2661.9	285.6	191.4	131.8	83.7	71.4	68.6	66.8	65.8	64.7
77.5°	2746.6	1899.7	220.9	151.3	97.0	68.4	60.9	58.9	57.1	55.5	54.8
80°	1052.2	735.8	148.7	112.9	71.2	54.0	49.2	48.2	46.3	45.3	45.3
82.5°	283.4	219.8	79.4	68.4	47.6	39.4	37.6	37.1	35.6	33.5	33.8
85°	114.7	97.0	44.5	37.6	29.2	23.3	25.3	25.6	23.8	21.2	21.5
87.5°	50.4	41.2	24.9	16.7	12.8	8.9	11.6	11.6	10.5	8.7	7.9
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)