

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: STREETWORKS

Report Number: P319335

Luminaire Tested: **GAN-SA1D-730-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319335  
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: STREETWORKS  
Catalog Number: GAN-SA1D-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 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: 7247 lumens  
Efficiency: N/A  
Efficacy: 108.2 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

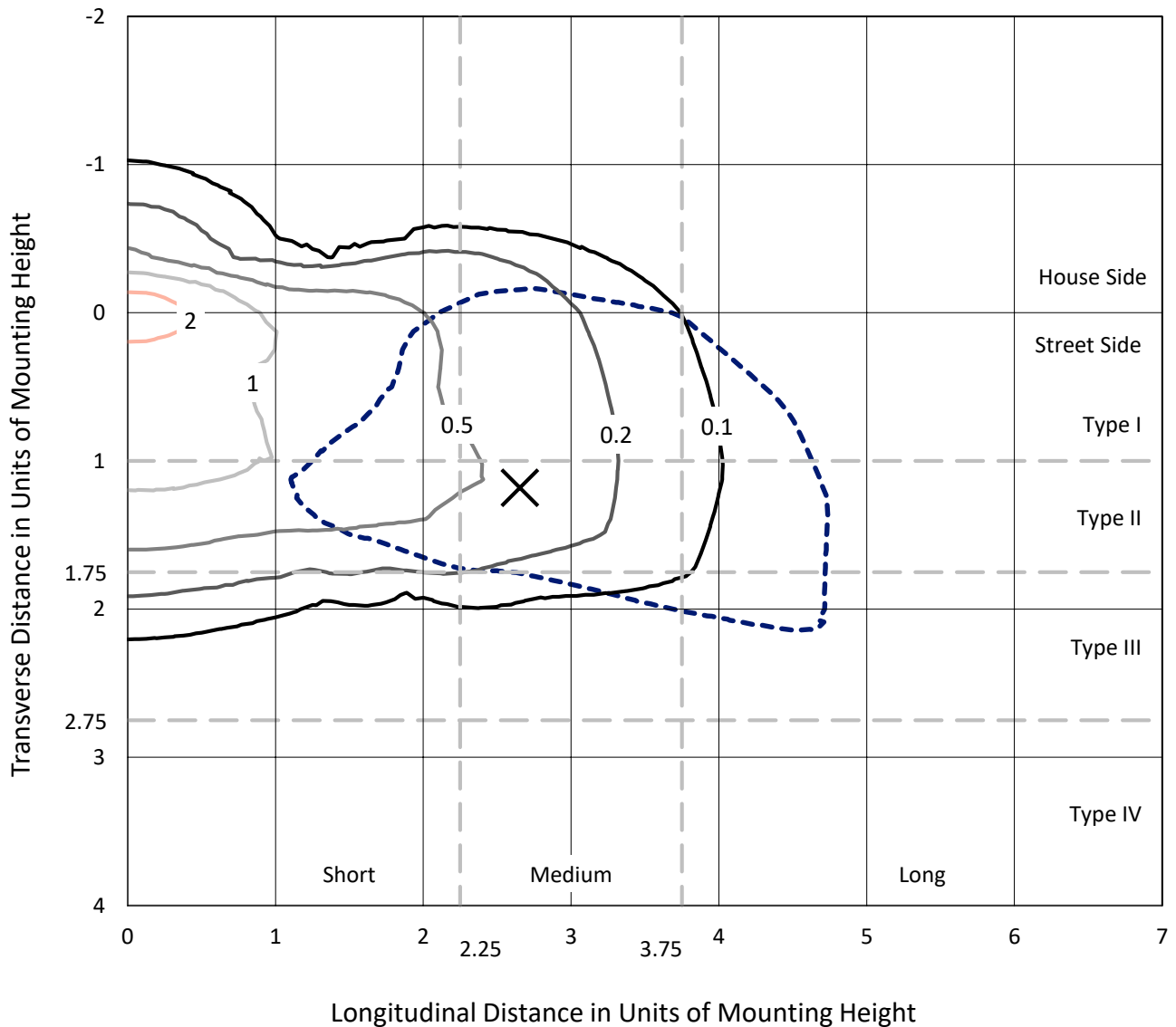
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

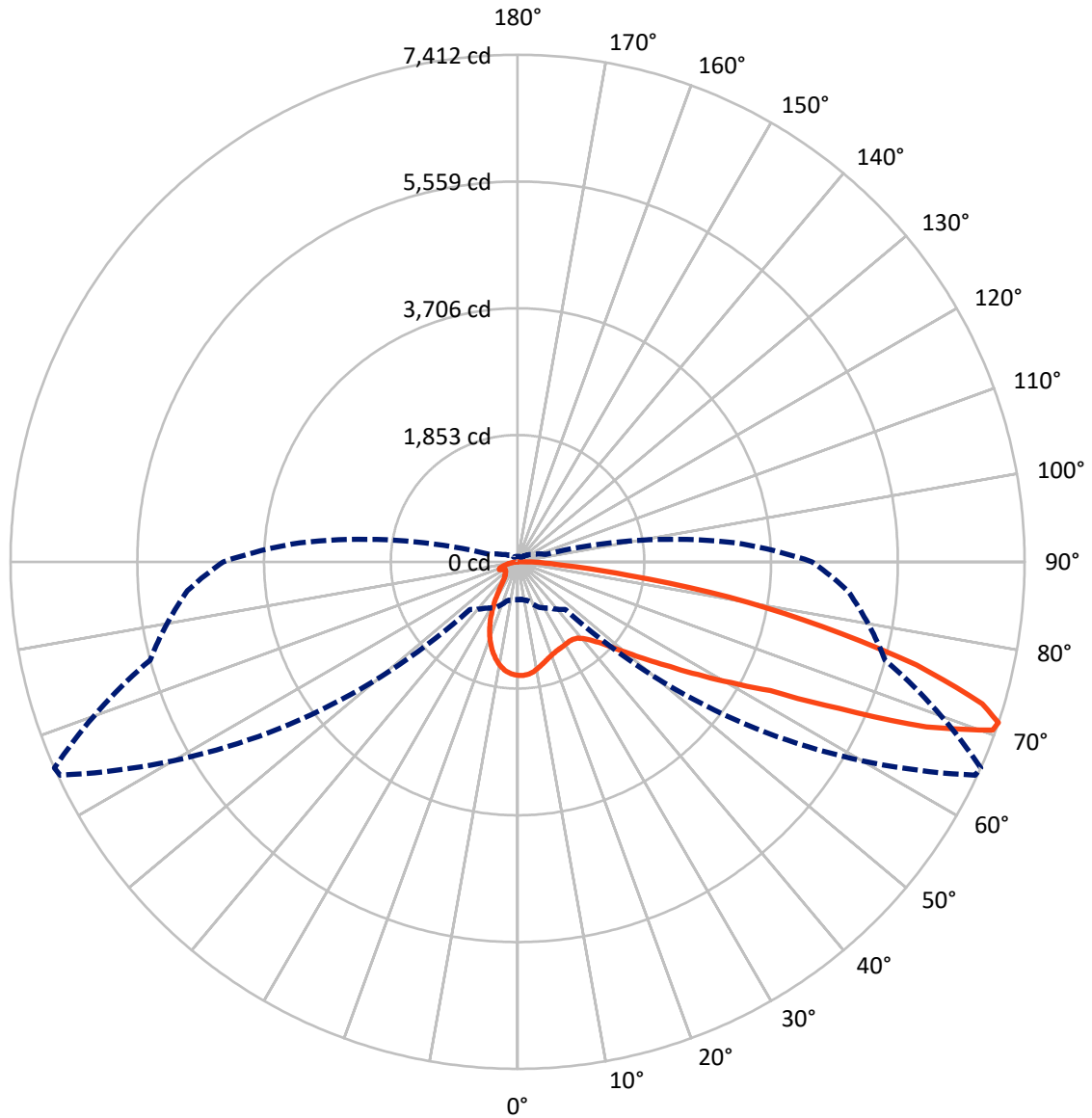
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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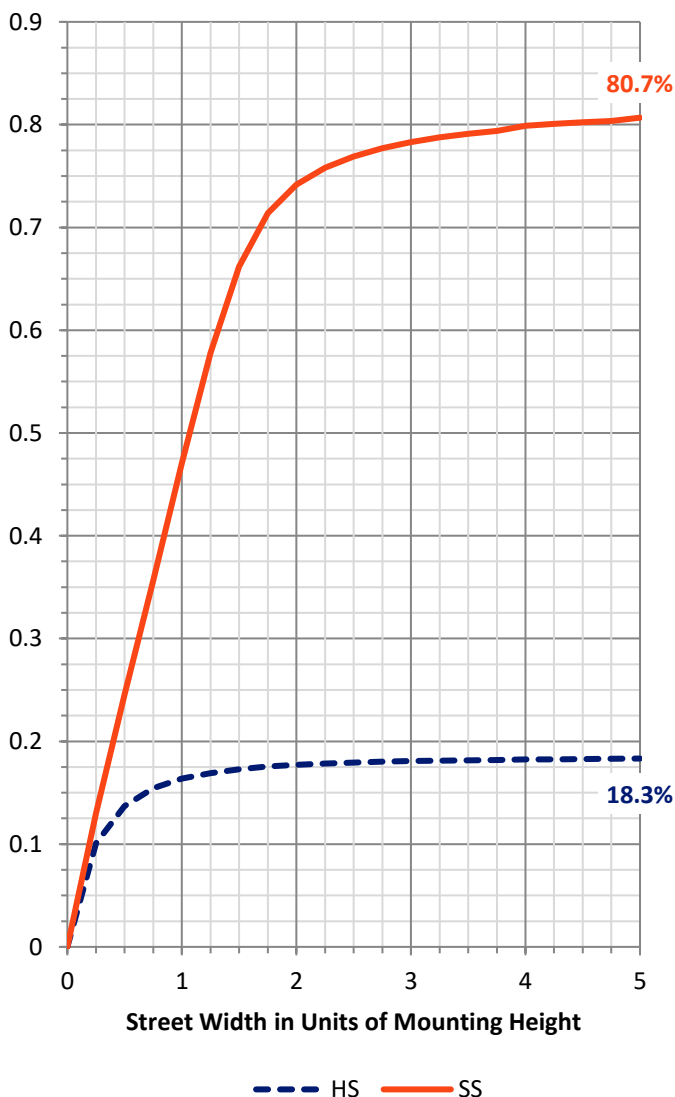
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1343.1	0.0	1343.1
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	5903.9	0.0	5903.9
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	7247.0	0.0	7247.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.1	2.0
10°-20°	350.5	4.8
20°-30°	470.8	6.5
30°-40°	619.3	8.5
40°-50°	901.0	12.4
50°-60°	1407.4	19.4
60°-70°	1763.0	24.3
70°-80°	1344.8	18.6
80°-90°	244.2	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°	7247.0	100.0
0°-180°	7247.0	100.0

**Coefficient of Utilization**

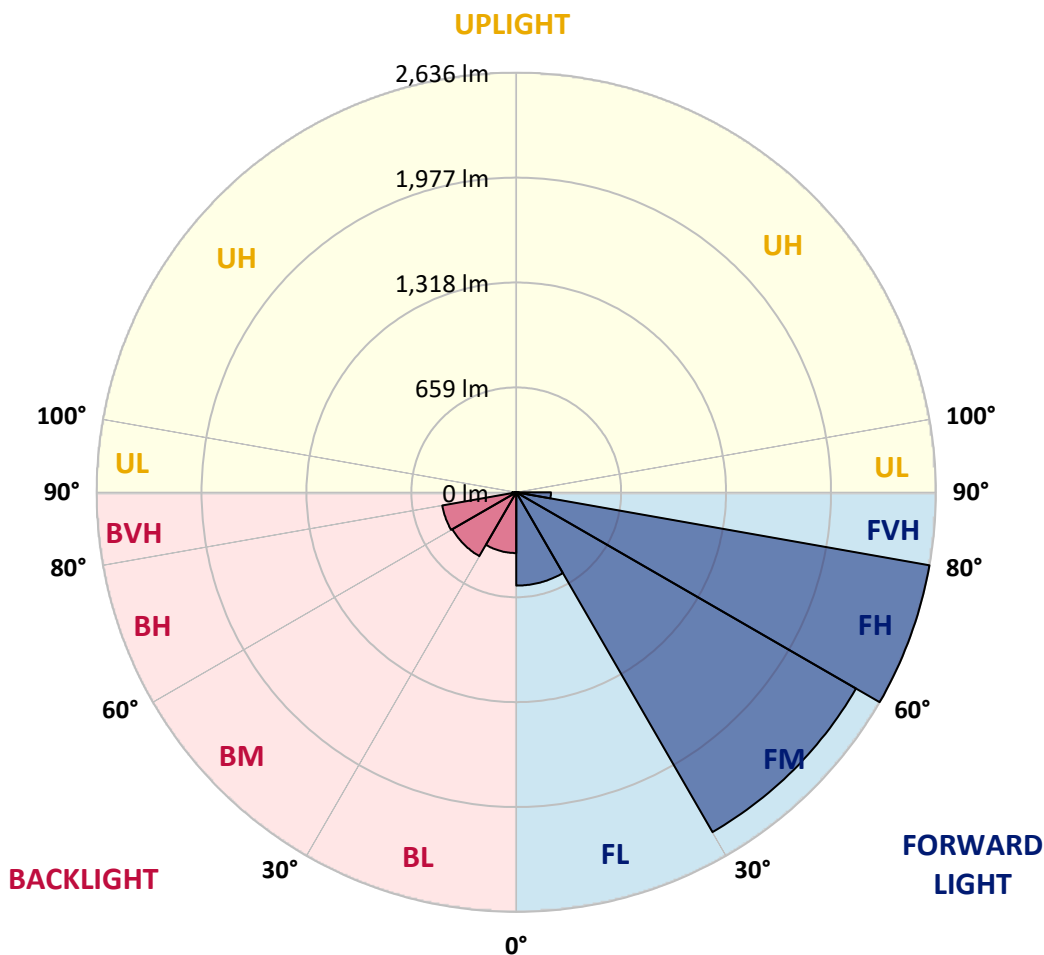


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.0	8.1			
FM (30°-60°)	2464.3	34.0			
FH (60°-80°)	2635.8	36.4			G2/5000
FVH (80°-90°)	217.8	3.0			G2/225
BL (0°-30°)	381.4	5.3	B1/500		
BM (30°-60°)	463.3	6.4	B1/1000		
BH (60°-80°)	471.9	6.5	B1/500		G1/500
BVH (80°-90°)	26.4	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°	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1
2.5°	1629.4	1626.9	1634.4	1642.1	1645.1	1650.1	1657.6	1661.9	1661.6	1662.4	1659.9
5°	1521.3	1518.0	1533.0	1545.3	1568.8	1595.3	1627.6	1650.6	1651.1	1664.2	1667.7
7.5°	1418.9	1416.7	1434.0	1453.7	1481.0	1521.5	1573.8	1623.4	1626.4	1661.6	1673.9
10°	1336.9	1336.4	1353.1	1374.7	1406.4	1451.7	1511.8	1584.3	1588.8	1649.6	1674.9
12.5°	1272.8	1273.8	1288.3	1312.9	1346.4	1393.7	1458.7	1540.5	1547.8	1630.6	1669.2
15°	1225.5	1229.5	1241.3	1266.1	1299.1	1347.1	1413.9	1500.0	1511.0	1609.4	1665.9
17.5°	1198.5	1203.0	1211.3	1231.8	1262.8	1309.1	1372.4	1466.7	1476.7	1593.1	1666.2
20°	1190.5	1194.3	1199.0	1211.5	1237.8	1279.8	1339.6	1436.7	1447.5	1580.1	1668.7
22.5°	1206.3	1209.0	1209.5	1208.5	1224.5	1258.8	1315.9	1414.7	1426.2	1571.6	1670.4
25°	1240.0	1243.8	1241.0	1231.8	1226.5	1247.6	1303.6	1400.2	1411.7	1565.3	1666.9
27.5°	1290.8	1291.3	1289.1	1277.1	1252.3	1248.8	1299.8	1391.7	1402.7	1558.1	1659.6
30°	1359.9	1363.1	1359.1	1342.9	1302.3	1268.8	1304.3	1383.4	1393.4	1548.8	1647.9
32.5°	1440.7	1448.7	1448.5	1431.5	1373.4	1313.6	1322.9	1378.4	1386.2	1539.0	1633.6
35°	1524.5	1535.5	1556.1	1548.8	1477.0	1384.4	1358.4	1386.4	1391.7	1537.8	1623.6
37.5°	1611.6	1622.6	1664.9	1684.4	1600.3	1485.8	1414.4	1414.7	1417.2	1553.1	1622.9
40°	1702.7	1714.4	1778.0	1828.8	1760.2	1614.1	1504.8	1473.7	1471.0	1590.6	1637.6
42.5°	1830.3	1840.8	1917.1	1981.9	1937.6	1778.5	1629.6	1564.8	1559.1	1664.2	1684.9
45°	1991.7	2000.7	2081.8	2151.1	2128.3	1966.2	1786.5	1690.2	1689.2	1786.8	1780.7
47.5°	2183.6	2190.6	2263.4	2330.5	2338.7	2182.1	1983.7	1883.6	1867.3	1954.9	1929.1
50°	2383.5	2391.3	2440.8	2512.9	2574.2	2471.1	2237.4	2120.5	2098.8	2176.8	2139.3
52.5°	2515.9	2526.1	2569.2	2660.5	2838.9	2787.8	2537.4	2407.8	2374.7	2445.8	2417.0
55°	2456.8	2479.8	2545.6	2692.0	3050.6	3271.8	2907.4	2742.8	2705.5	2764.6	2747.6
57.5°	2188.3	2219.9	2309.7	2535.6	3080.3	3698.1	3466.9	3137.4	3111.1	3094.1	3101.9
60°	1697.7	1728.0	1839.3	2133.8	2872.9	4009.4	4308.9	3623.8	3585.8	3424.9	3431.9
62.5°	1201.5	1186.2	1262.6	1478.0	2334.5	4045.9	5266.9	4274.3	4149.2	3774.2	3743.4
65°	916.3	912.8	947.0	1015.6	1413.9	3608.8	5837.7	5367.8	5172.4	4185.0	4112.5
67.5°	752.9	746.6	780.4	880.2	910.5	2328.2	5850.2	6636.3	6444.4	4696.5	4539.3
70°	619.0	612.0	643.5	772.4	841.5	1180.7	4923.6	7379.2	7369.0	5344.0	4861.6
71°	555.0	550.0	587.7	730.9	826.7	984.1	4251.1	7381.2	7412.0	5563.2	4842.6
72.5°	451.9	453.6	493.7	650.5	815.7	869.0	3124.4	7037.2	7102.2	5772.1	4669.7
75°	300.3	301.8	354.3	500.4	790.9	850.2	1717.2	5905.0	6024.6	5647.0	4261.1
77.5°	201.7	201.2	236.9	343.3	689.1	850.2	1006.8	4416.5	4547.8	4493.3	3285.0
80°	138.9	137.9	163.1	236.9	521.7	860.5	778.4	3095.1	3134.9	2426.5	1335.1
82.5°	85.1	85.8	106.6	167.4	355.0	774.4	734.9	1687.7	1644.4	680.6	333.5
85°	48.8	48.5	68.1	113.3	227.9	653.6	716.6	726.4	666.3	204.9	120.6
87.5°	17.5	18.8	36.5	62.8	130.6	455.1	608.0	377.8	340.5	92.6	54.5
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°	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1
2.5°	1658.1	1659.6	1657.9	1647.9	1639.4	1625.6	1617.9	1607.1	1603.9	1602.3	1606.4
5°	1664.4	1664.9	1650.1	1623.9	1594.3	1559.6	1534.5	1503.8	1489.3	1483.0	1487.0
7.5°	1670.2	1667.9	1635.6	1585.3	1530.8	1470.2	1416.4	1367.2	1338.4	1326.6	1327.6
10°	1670.9	1661.4	1609.6	1531.8	1447.2	1358.4	1275.8	1199.8	1151.7	1120.4	1130.0
12.5°	1663.1	1647.1	1571.3	1462.5	1345.1	1224.0	1112.4	998.3	929.8	898.0	899.0
15°	1657.1	1628.1	1524.3	1380.9	1223.3	1062.9	910.5	776.4	703.3	670.8	655.6
17.5°	1652.1	1607.6	1469.7	1289.1	1079.4	876.0	692.8	573.2	533.2	523.7	519.7
20°	1645.1	1585.8	1408.9	1182.7	915.5	666.8	505.9	446.9	447.1	458.1	459.6
22.5°	1635.4	1561.1	1344.1	1063.4	739.6	485.7	396.6	379.6	396.8	417.9	421.6
25°	1620.9	1531.8	1272.1	931.5	564.0	373.3	338.8	338.0	359.1	381.1	384.3
27.5°	1600.3	1493.5	1192.0	789.9	415.6	317.3	303.5	308.8	324.3	340.3	341.5
30°	1572.8	1449.0	1103.7	640.5	325.8	282.5	281.0	285.7	295.2	306.5	307.5
32.5°	1542.5	1403.7	1009.3	495.9	279.0	263.7	265.2	267.5	272.0	276.5	277.5
35°	1515.0	1357.4	912.8	376.8	256.7	251.5	250.5	250.0	250.5	249.0	249.2
37.5°	1497.3	1319.1	812.2	300.0	244.0	240.7	237.7	233.9	229.7	227.2	227.7
40°	1490.8	1290.6	710.3	259.2	233.4	231.2	225.4	217.4	212.4	210.9	210.9
42.5°	1508.3	1275.8	612.0	238.7	224.7	220.9	211.4	202.2	198.4	198.2	197.9
45°	1561.8	1281.8	518.4	227.4	216.7	209.4	196.9	189.2	186.7	187.2	186.9
47.5°	1657.9	1319.6	438.4	219.9	208.7	199.2	185.2	178.9	175.9	175.9	176.1
50°	1821.3	1407.9	374.6	213.7	201.9	189.7	176.6	168.9	164.9	164.6	164.6
52.5°	2059.2	1566.1	334.8	208.4	194.4	181.2	168.1	158.4	153.6	152.6	152.1
55°	2357.5	1792.8	323.8	204.9	184.4	171.9	157.9	148.1	142.9	140.6	140.4
57.5°	2691.0	2068.5	345.5	200.7	174.1	160.9	146.6	137.4	131.9	129.1	128.9
60°	3028.5	2369.5	434.4	194.7	165.6	148.9	135.1	126.6	121.1	118.1	117.6
62.5°	3366.6	2686.8	615.8	194.2	159.6	137.4	123.4	116.1	110.8	107.6	106.8
65°	3747.9	3034.1	821.9	207.4	157.6	126.9	111.3	105.6	101.1	98.1	97.8
67.5°	4185.8	3426.1	802.2	234.7	164.4	117.3	100.1	95.6	92.3	89.8	89.6
70°	4391.2	3364.8	498.7	254.0	173.9	108.1	89.3	86.1	83.6	81.8	81.1
71°	4305.1	3194.9	418.1	251.7	172.9	104.1	85.1	82.6	80.1	78.6	77.8
72.5°	4070.4	2913.7	348.8	234.2	161.6	96.8	79.6	77.1	74.8	73.1	72.6
75°	3652.6	2602.2	279.2	187.2	128.9	81.8	69.8	67.1	65.3	64.3	63.3
77.5°	2685.0	1857.1	215.9	147.9	94.8	66.8	59.6	57.5	55.8	54.3	53.5
80°	1028.6	719.4	145.4	110.3	69.6	52.8	48.0	47.0	45.3	44.3	44.3
82.5°	277.0	214.9	77.6	66.8	46.5	38.5	36.8	36.3	34.8	32.8	33.0
85°	112.1	94.8	43.5	36.8	28.5	22.8	24.8	25.0	23.3	20.8	21.0
87.5°	49.3	40.3	24.3	16.3	12.5	8.8	11.3	11.3	10.3	8.5	7.8
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)