

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: P651177

Luminaire Tested: **GALN-SA1D-840-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651177  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-840-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 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: 6570.7 lumens  
Efficiency: N/A  
Efficacy: 101.1 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

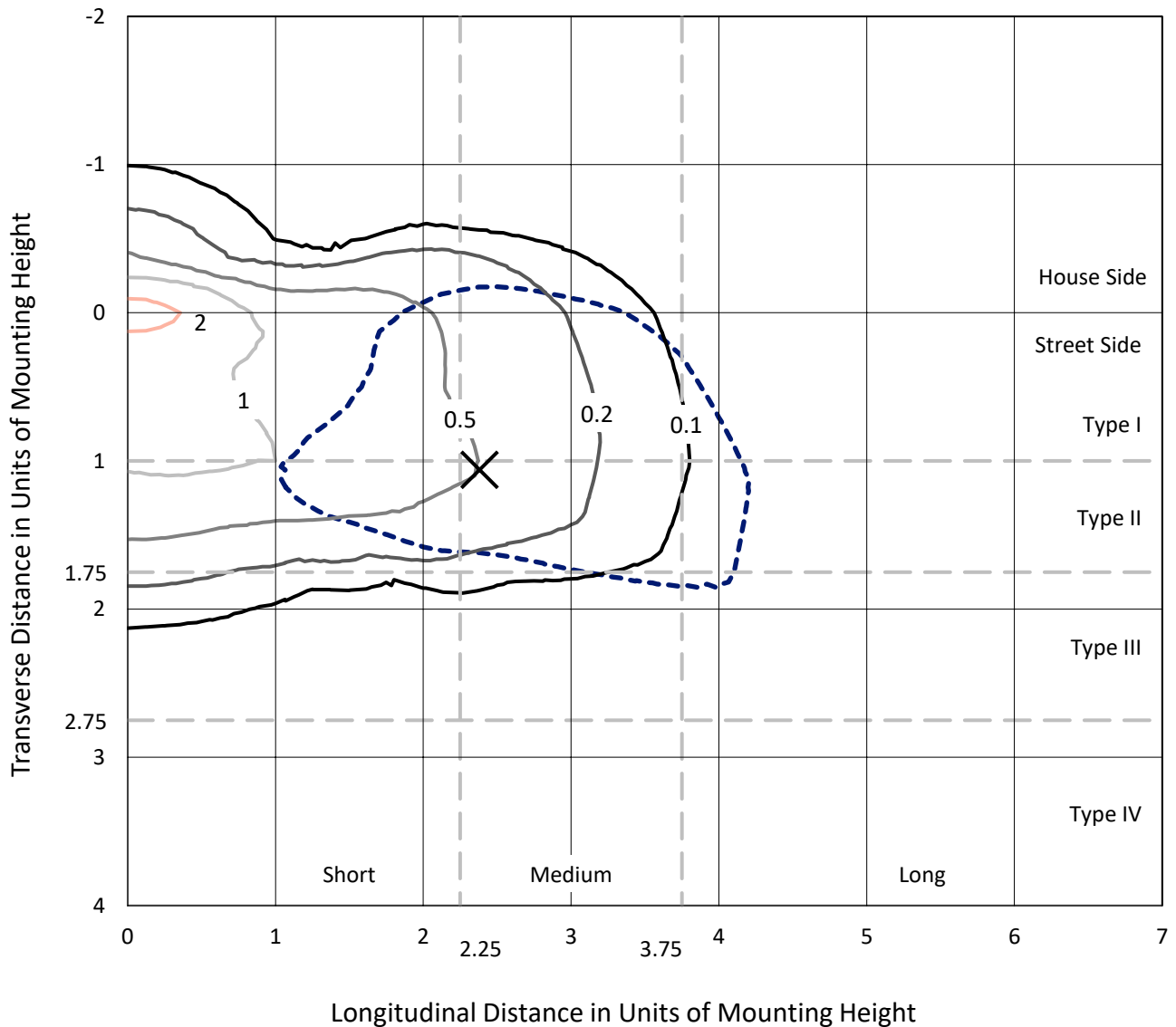
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

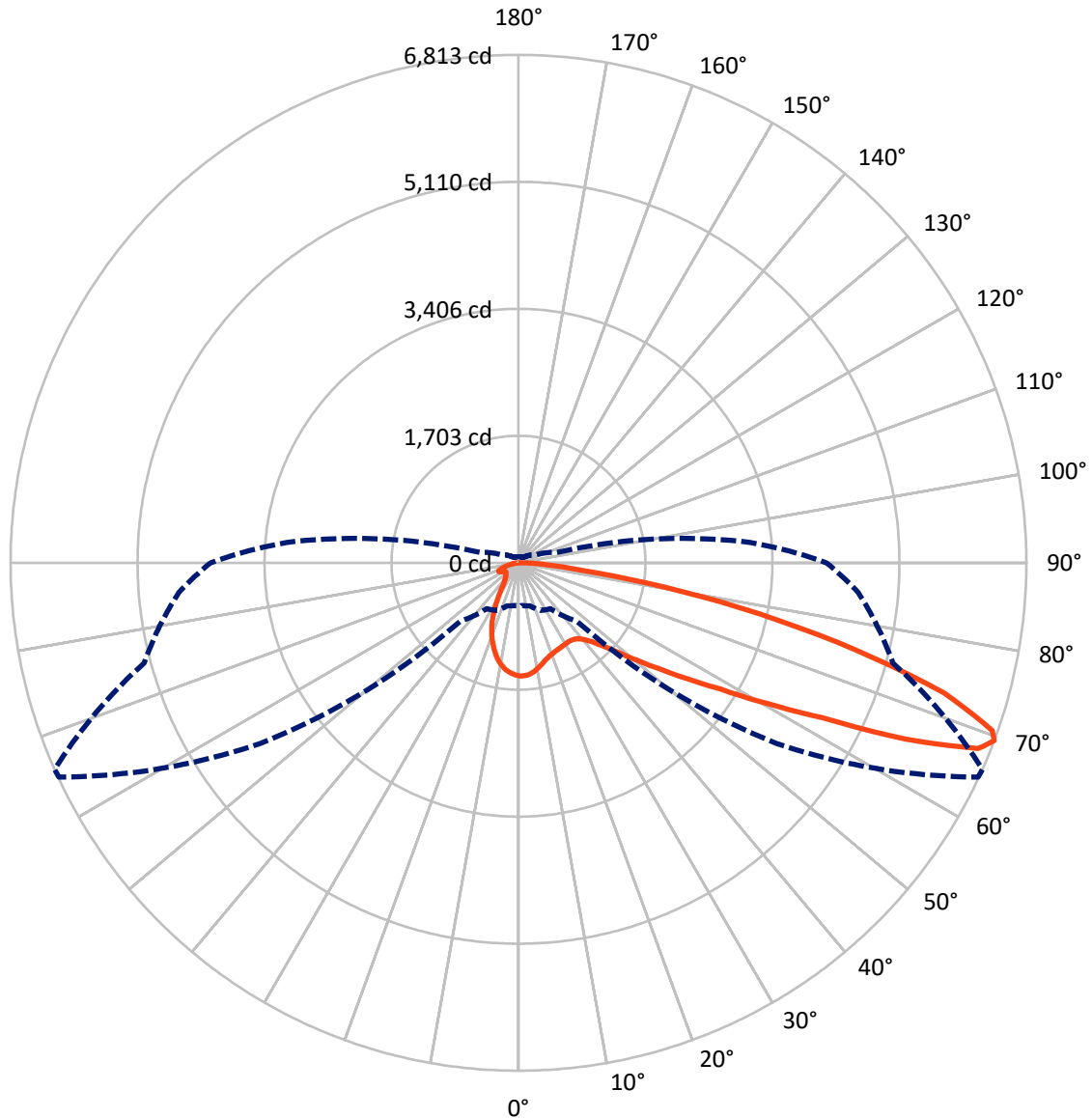
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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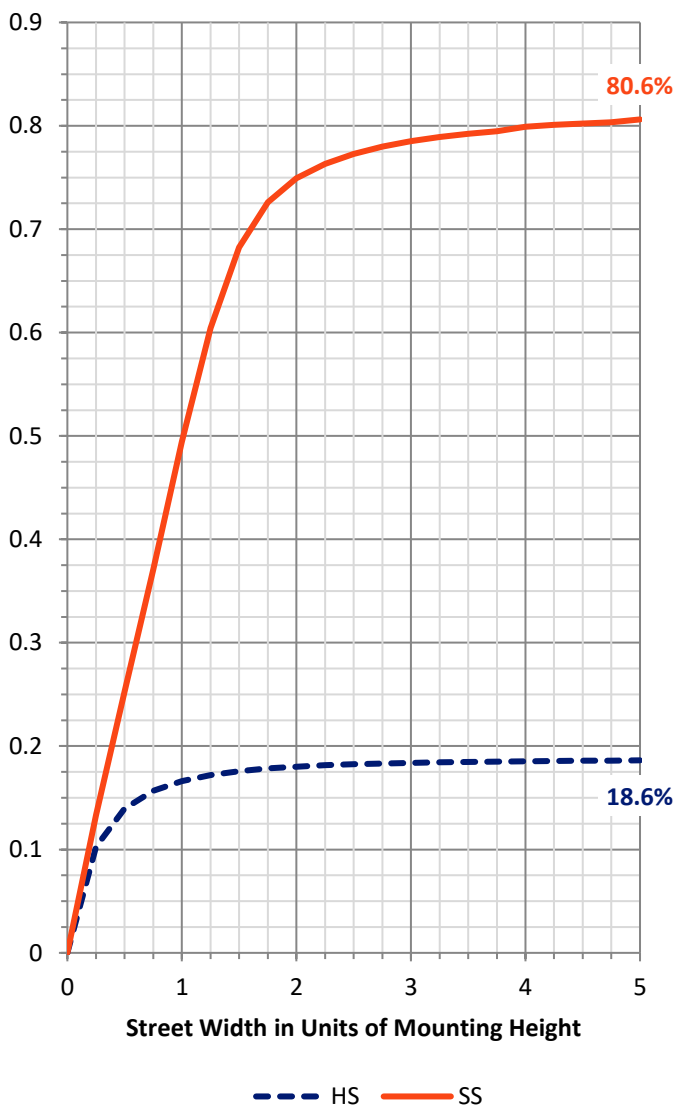
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1235.7	0.0	1235.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	5335.0	0.0	5335.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	6570.7	0.0	6570.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.8	2.0
10°-20°	312.5	4.8
20°-30°	425.5	6.5
30°-40°	571.8	8.7
40°-50°	853.7	13.0
50°-60°	1358.0	20.7
60°-70°	1670.3	25.4
70°-80°	1086.7	16.5
80°-90°	160.5	2.4
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°	6570.7	100.0
0°-180°	6570.7	100.0

**Coefficient of Utilization**

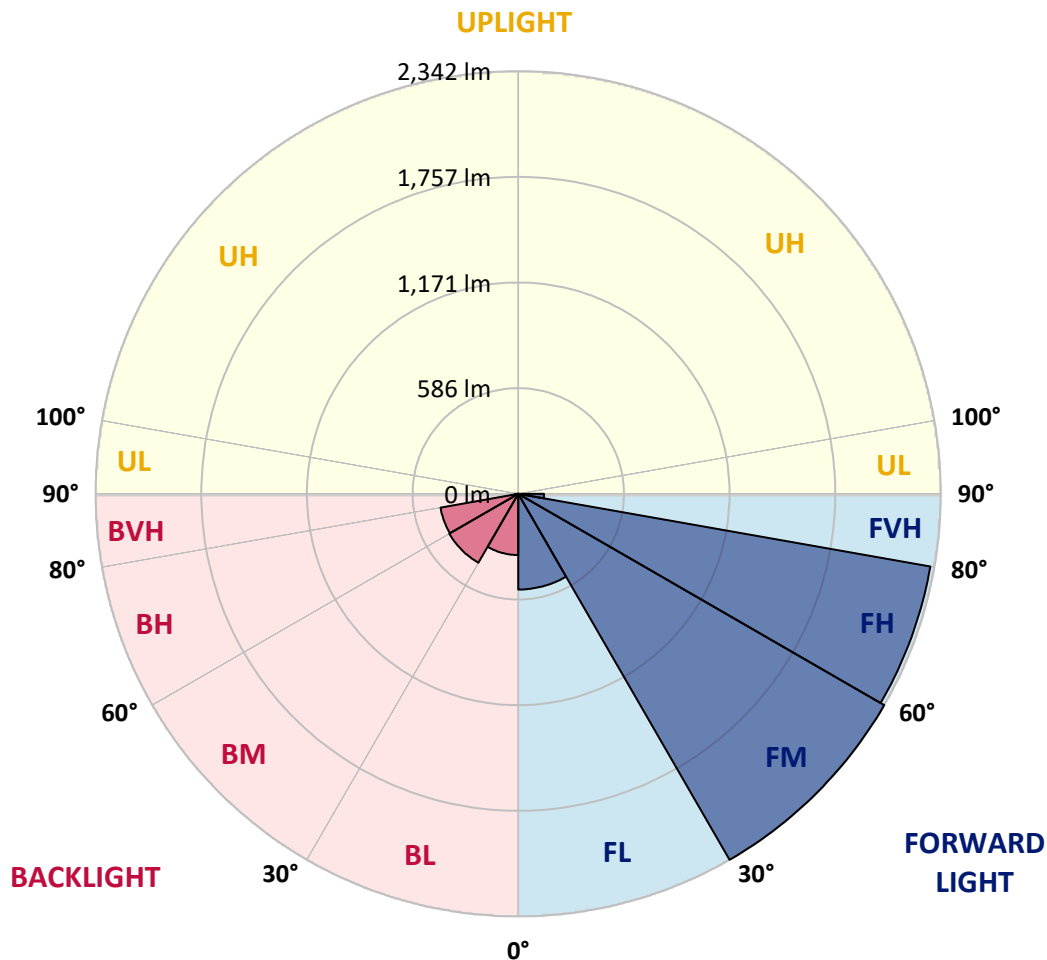


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	530.6	8.1			
FM (30°-60°)	2342.3	35.6			
FH (60°-80°)	2319.5	35.3			G2/5000
FVH (80°-90°)	142.7	2.2			G2/225
BL (0°-30°)	339.2	5.2	B1/500		
BM (30°-60°)	441.2	6.7	B1/1000		
BH (60°-80°)	437.5	6.7	B1/500		G1/500
BVH (80°-90°)	17.8	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-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3
2.5°	1464.3	1470.1	1476.6	1483.9	1497.7	1505.4	1510.9	1517.0	1517.8	1521.0	1518.4
5°	1356.2	1363.1	1372.9	1386.7	1407.5	1439.9	1473.3	1500.6	1503.9	1519.2	1523.6
7.5°	1266.0	1269.9	1277.9	1300.1	1329.6	1365.6	1414.4	1469.7	1477.7	1514.1	1526.8
10°	1192.5	1196.4	1205.9	1228.8	1257.9	1303.0	1356.5	1429.3	1435.8	1498.4	1527.6
12.5°	1137.5	1141.2	1151.3	1173.9	1207.3	1249.6	1308.5	1385.6	1395.1	1477.7	1520.6
15°	1095.7	1102.6	1110.9	1129.5	1164.8	1205.5	1262.7	1345.6	1353.3	1455.9	1515.9
17.5°	1077.8	1081.1	1086.9	1104.0	1129.8	1169.8	1227.4	1314.3	1323.4	1440.5	1514.8
20°	1078.5	1081.8	1082.9	1092.4	1110.9	1145.4	1202.2	1289.6	1300.5	1427.1	1516.7
22.5°	1103.3	1103.6	1099.6	1096.3	1103.6	1132.4	1184.4	1271.0	1283.8	1421.3	1518.1
25°	1141.5	1148.0	1142.2	1126.9	1113.5	1127.3	1177.5	1260.8	1272.9	1413.0	1516.2
27.5°	1203.3	1204.4	1199.7	1179.0	1144.0	1133.8	1174.6	1253.2	1263.4	1406.7	1507.2
30°	1286.3	1283.0	1278.7	1255.7	1200.8	1159.0	1180.8	1246.3	1256.8	1397.7	1496.2
32.5°	1370.3	1380.6	1376.5	1349.6	1278.3	1207.7	1200.8	1245.5	1254.3	1390.8	1484.3
35°	1459.5	1464.3	1483.2	1469.3	1396.2	1286.6	1238.3	1256.8	1263.8	1391.1	1475.9
37.5°	1529.4	1542.1	1586.5	1598.5	1529.7	1391.1	1299.0	1288.8	1291.8	1408.9	1479.2
40°	1613.8	1635.7	1692.8	1741.9	1696.7	1526.8	1402.4	1348.1	1351.8	1451.9	1500.6
42.5°	1720.8	1736.1	1812.9	1879.4	1872.2	1706.2	1527.6	1445.3	1447.1	1537.3	1560.6
45°	1845.9	1867.8	1954.0	2054.1	2071.2	1909.2	1708.4	1592.3	1591.3	1670.2	1672.7
47.5°	2006.0	2019.5	2105.0	2214.2	2283.3	2164.3	1927.8	1803.4	1791.8	1863.7	1843.1
50°	2153.4	2174.5	2239.3	2358.7	2530.7	2463.1	2216.4	2077.0	2049.7	2117.0	2082.1
52.5°	2215.3	2237.5	2292.1	2440.2	2742.9	2849.5	2582.8	2403.4	2357.9	2409.5	2396.8
55°	2108.0	2136.6	2187.6	2367.8	2836.0	3295.3	3077.0	2780.8	2747.6	2725.4	2729.0
57.5°	1819.4	1846.7	1915.5	2114.1	2724.7	3618.7	3782.5	3265.8	3194.9	3092.6	3110.0
60°	1384.9	1402.0	1437.7	1657.8	2394.7	3702.8	4583.8	3878.9	3833.8	3458.3	3470.6
62.5°	983.5	1002.8	1027.6	1137.5	1753.1	3465.9	5211.1	4735.1	4573.9	3837.1	3825.0
65°	798.7	785.6	815.4	866.7	1028.7	2686.2	5352.3	5923.6	5701.6	4335.9	4169.3
67.5°	656.8	642.9	672.5	763.8	782.3	1559.2	4843.6	6694.9	6650.5	4878.5	4518.9
69°	581.5	574.2	600.1	704.1	751.0	1107.3	4219.5	6802.3	6812.9	5198.3	4572.9
70°	523.9	526.9	552.0	673.9	736.9	913.0	3606.4	6654.2	6743.7	5358.1	4514.7
72.5°	385.7	391.9	426.8	558.2	723.4	774.7	2146.1	5812.2	5970.5	5367.5	4130.0
75°	269.6	266.7	297.6	420.2	683.4	767.7	1260.5	4495.0	4674.4	4639.5	3470.3
77.5°	176.4	181.2	206.0	297.0	574.9	761.9	821.7	3189.0	3305.5	3102.8	2052.6
80°	124.5	124.0	137.9	202.7	426.5	732.1	672.8	2010.1	1980.6	1219.4	608.8
82.5°	71.3	76.4	92.4	142.6	285.3	644.5	619.0	961.3	877.7	347.5	205.6
85°	39.7	41.5	54.9	86.2	166.7	485.4	540.3	437.4	412.6	145.2	88.4
87.5°	12.7	13.8	23.0	43.6	75.7	229.3	306.0	201.9	186.3	52.4	35.7
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°	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3
2.5°	1519.5	1523.9	1512.3	1501.0	1490.8	1476.6	1463.8	1453.3	1446.0	1444.9	1441.3
5°	1524.6	1525.0	1502.8	1473.0	1443.8	1411.9	1378.7	1355.1	1332.9	1320.5	1314.3
7.5°	1528.3	1525.0	1485.0	1436.6	1380.6	1322.3	1264.1	1217.5	1181.5	1167.3	1172.8
10°	1526.8	1516.7	1458.0	1380.6	1299.0	1212.0	1128.4	1062.9	1002.8	971.9	972.6
12.5°	1518.8	1502.1	1418.0	1317.6	1197.9	1081.4	953.4	865.0	795.4	754.3	741.6
15°	1511.9	1482.8	1371.1	1232.1	1083.3	916.9	760.9	651.7	593.5	561.1	560.7
17.5°	1504.6	1464.3	1319.8	1141.5	951.5	737.6	573.8	490.5	463.2	466.5	461.0
20°	1497.0	1442.4	1266.3	1040.7	791.0	550.2	429.8	395.9	403.5	418.5	420.7
22.5°	1488.2	1419.1	1208.8	929.7	622.3	414.1	348.6	343.5	363.1	386.4	389.7
25°	1474.8	1390.0	1136.4	813.7	480.0	333.7	305.3	308.9	328.2	347.8	350.0
27.5°	1455.9	1354.0	1063.3	668.8	360.6	286.4	279.1	283.8	293.3	305.3	308.2
30°	1430.4	1313.2	979.2	543.6	288.9	262.7	259.8	262.4	267.8	272.9	274.3
32.5°	1404.9	1273.9	894.4	416.3	257.6	247.1	244.1	244.1	244.1	244.9	245.2
35°	1381.3	1236.8	803.4	324.2	241.3	234.7	230.7	226.3	225.6	223.0	223.0
37.5°	1368.1	1203.0	706.6	271.5	229.3	224.5	219.1	211.8	207.8	208.1	207.4
40°	1370.7	1180.8	618.6	241.6	219.4	214.3	206.0	197.6	195.0	195.0	194.3
42.5°	1399.5	1173.5	534.2	226.0	210.0	204.1	193.6	185.9	184.5	184.1	184.9
45°	1465.7	1191.4	458.5	215.8	201.9	193.2	182.7	175.8	174.3	174.3	173.9
47.5°	1594.9	1249.2	404.3	209.2	196.1	184.9	173.9	167.0	164.5	163.7	163.7
50°	1795.7	1374.7	363.9	203.4	188.9	177.2	165.9	157.9	153.9	153.6	153.2
52.5°	2074.8	1570.5	348.3	199.1	180.8	169.2	156.8	149.2	144.1	143.0	142.3
55°	2401.2	1843.7	369.7	195.8	172.5	160.1	147.3	139.4	134.6	132.5	132.1
57.5°	2779.3	2172.0	451.2	191.4	164.8	150.3	137.9	129.9	124.8	122.3	121.5
60°	3118.8	2509.3	593.5	188.9	158.3	139.7	127.0	119.7	115.0	112.4	112.1
62.5°	3491.7	2831.0	763.4	195.8	155.4	129.5	116.8	110.3	106.2	103.7	103.7
65°	3890.2	3153.0	875.8	219.1	159.7	121.5	105.9	100.4	96.8	94.9	94.6
67.5°	4158.7	3264.3	721.6	243.0	170.6	112.8	95.4	91.0	88.8	87.0	87.0
69°	4129.6	3123.5	532.4	249.3	173.9	108.4	89.5	86.2	83.3	82.6	81.9
70°	4037.6	2963.0	446.2	245.2	171.4	104.5	85.9	81.9	79.3	78.6	78.2
72.5°	3596.2	2569.7	332.2	213.2	145.9	90.6	76.0	72.4	70.2	69.1	69.1
75°	2987.8	2100.3	259.4	169.5	114.3	76.4	65.1	62.2	60.4	59.7	59.3
77.5°	1674.6	1172.8	186.3	132.8	86.6	61.9	54.6	52.1	50.2	49.5	49.5
80°	466.5	335.1	109.5	87.7	59.0	46.9	43.3	41.5	38.9	37.1	38.2
82.5°	175.8	145.2	62.6	52.7	37.5	31.3	30.2	28.8	27.7	25.1	25.1
85°	85.5	70.6	40.0	28.0	20.8	16.4	15.6	14.9	14.2	12.4	12.7
87.5°	29.4	31.3	17.5	10.2	6.2	4.0	3.3	1.9	1.9	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)