

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: P650682

Luminaire Tested: **GALN-SA1C-840-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650682  
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-SA1C-840-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1050mA 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: 5971.9 lumens  
Efficiency: N/A  
Efficacy: 104.8 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

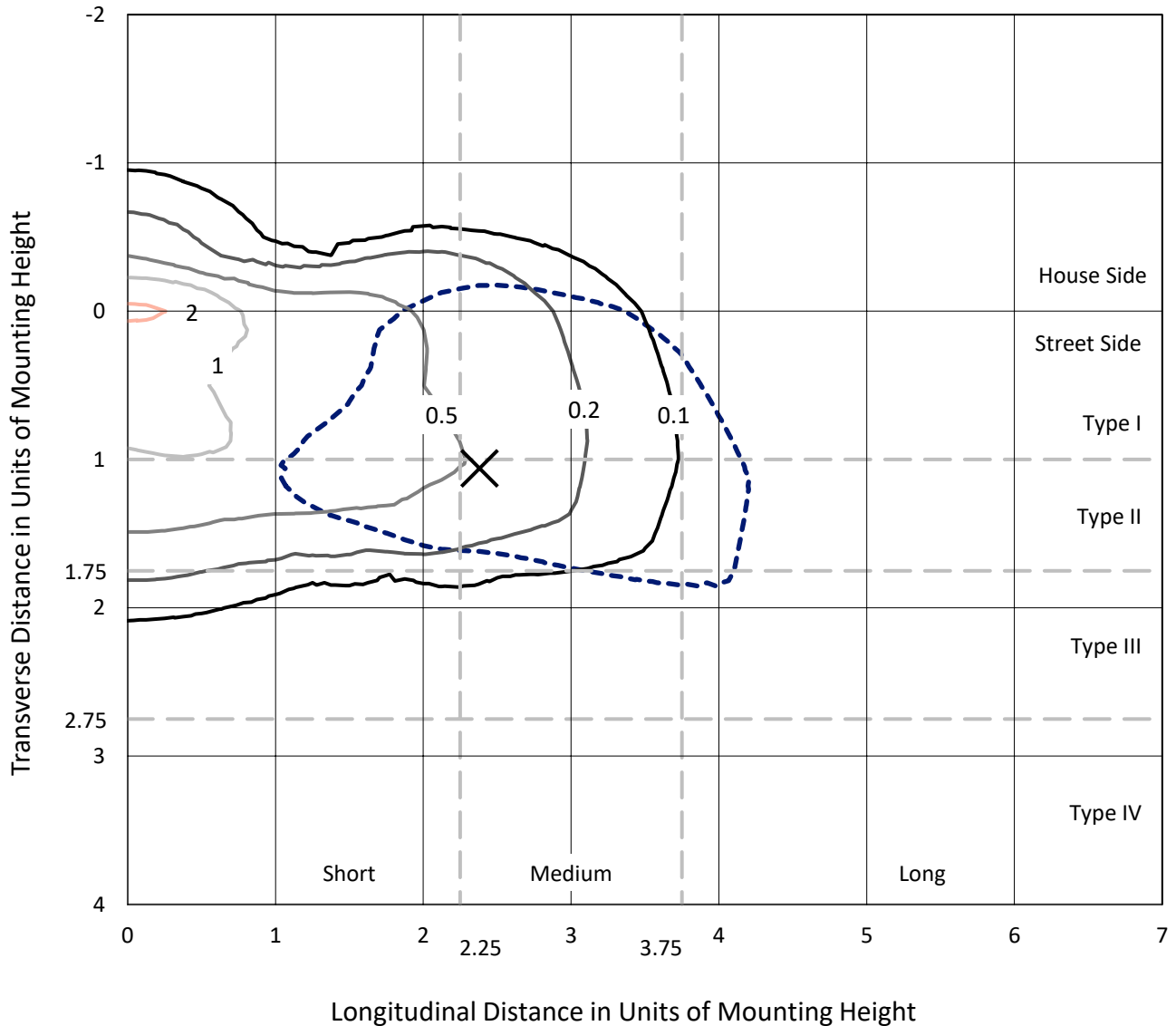
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

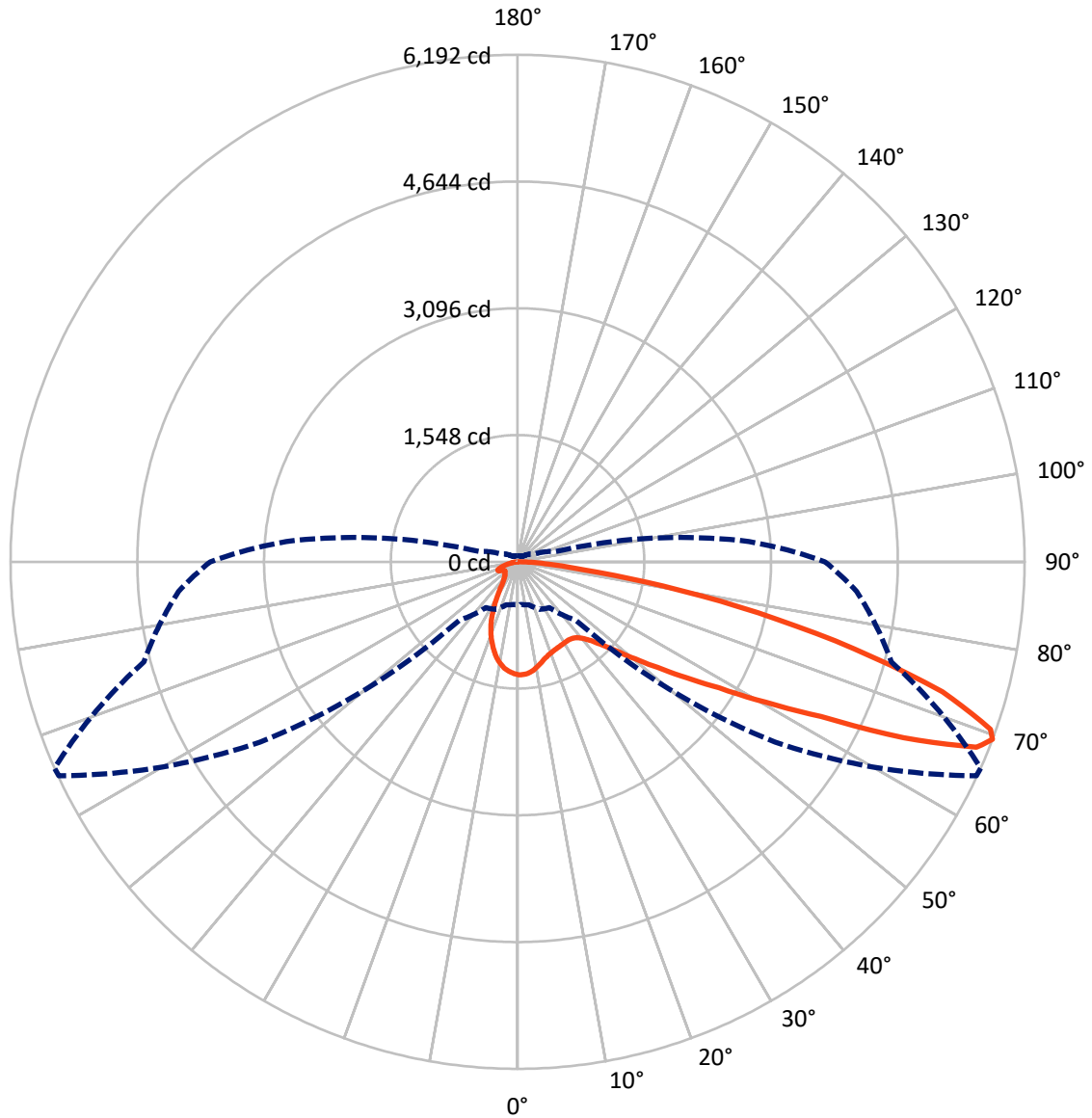
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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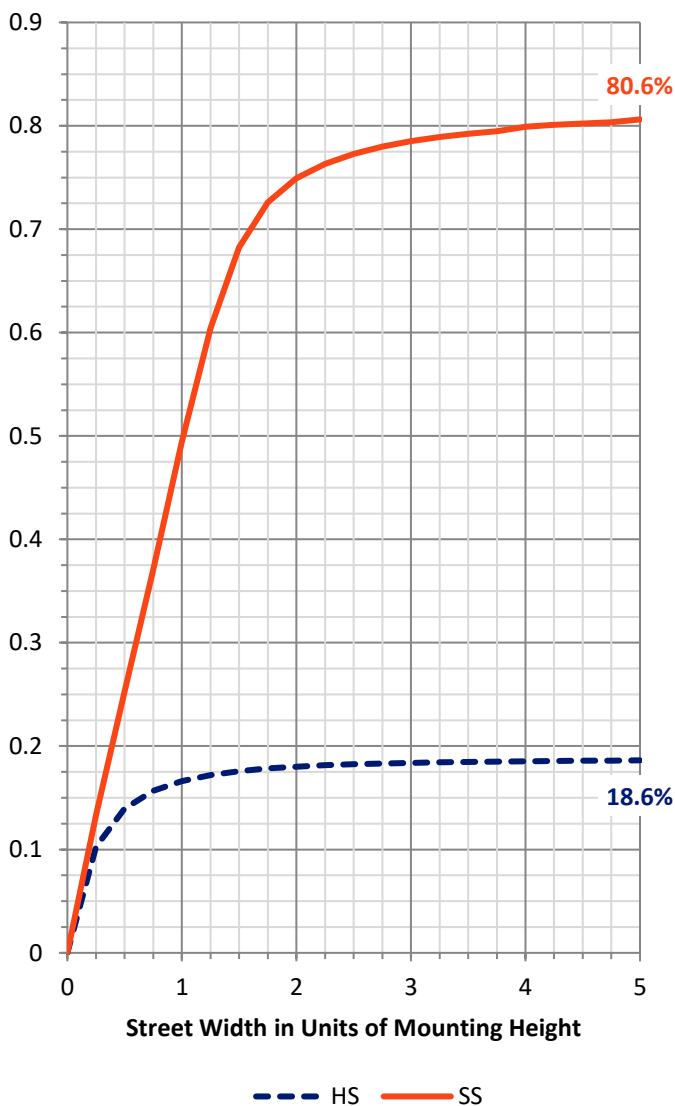
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1123.1	0.0	1123.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	4848.8	0.0	4848.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	5971.9	0.0	5971.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.8	2.0
10°-20°	284.1	4.8
20°-30°	386.7	6.5
30°-40°	519.6	8.7
40°-50°	775.9	13.0
50°-60°	1234.2	20.7
60°-70°	1518.0	25.4
70°-80°	987.7	16.5
80°-90°	145.9	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°	5971.9	100.0
0°-180°	5971.9	100.0

**Coefficient of Utilization**

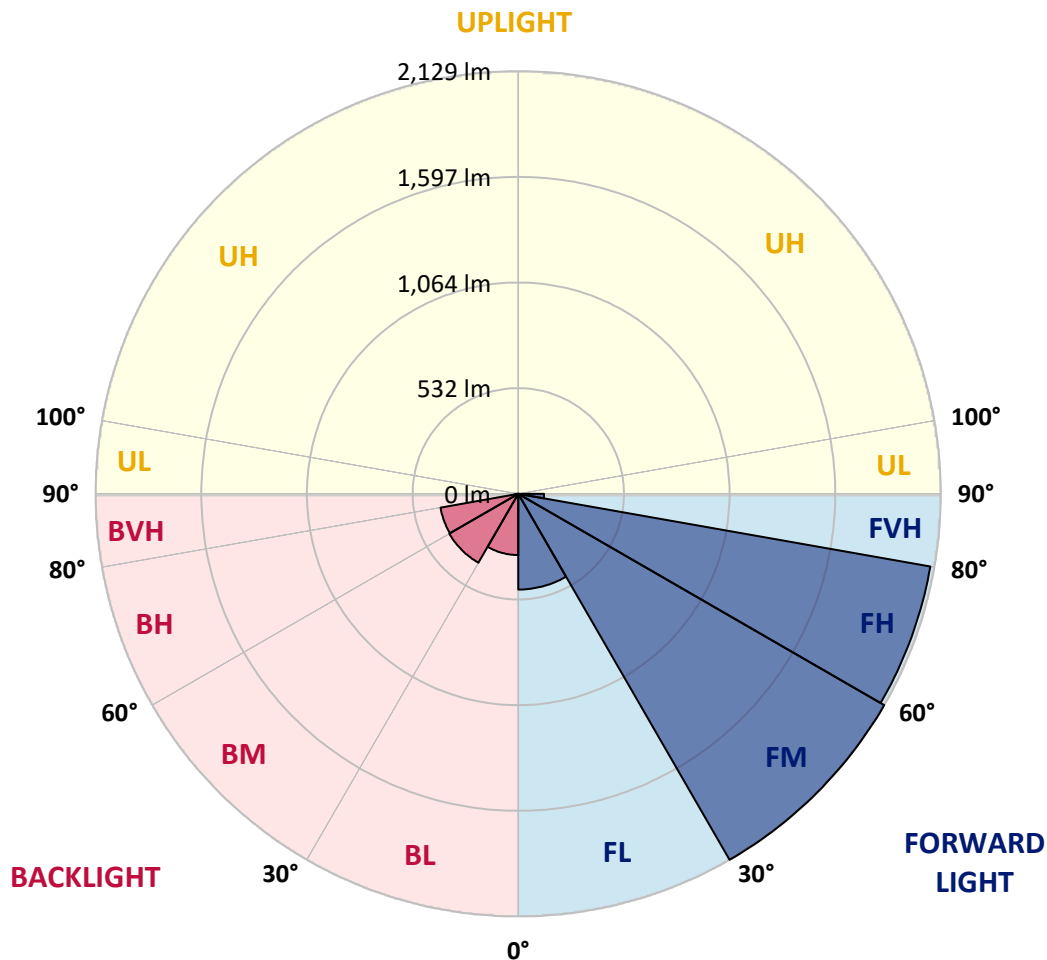


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	482.2	8.1			
FM (30°-60°)	2128.8	35.6			
FH (60°-80°)	2108.1	35.3			G2/5000
FVH (80°-90°)	129.7	2.2			G2/225
BL (0°-30°)	308.3	5.2	B1/500		
BM (30°-60°)	401.0	6.7	B1/1000		
BH (60°-80°)	397.6	6.7	B1/500		G1/500
BVH (80°-90°)	16.2	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°	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1
2.5°	1330.8	1336.1	1342.1	1348.6	1361.2	1368.1	1373.1	1378.7	1379.4	1382.4	1380.1
5°	1232.6	1238.9	1247.8	1260.3	1279.2	1308.7	1339.0	1363.8	1366.9	1380.8	1384.7
7.5°	1150.6	1154.2	1161.5	1181.7	1208.4	1241.1	1285.5	1335.8	1343.1	1376.1	1387.6
10°	1083.8	1087.4	1096.0	1116.8	1143.3	1184.3	1232.9	1299.1	1305.0	1361.9	1388.3
12.5°	1033.8	1037.1	1046.4	1066.9	1097.3	1135.7	1189.3	1259.4	1268.0	1343.1	1382.1
15°	995.8	1002.1	1009.7	1026.5	1058.7	1095.7	1147.5	1223.0	1230.0	1323.2	1377.7
17.5°	979.6	982.5	987.8	1003.4	1026.9	1063.3	1115.5	1194.6	1202.8	1309.3	1376.8
20°	980.3	983.2	984.2	992.8	1009.7	1041.1	1092.7	1172.0	1181.9	1297.1	1378.4
22.5°	1002.7	1003.1	999.4	996.4	1003.1	1029.2	1076.5	1155.2	1166.8	1291.8	1379.7
25°	1037.5	1043.4	1038.1	1024.3	1012.0	1024.6	1070.2	1145.9	1156.9	1284.2	1378.1
27.5°	1093.7	1094.6	1090.4	1071.5	1039.8	1030.5	1067.6	1139.0	1148.2	1278.6	1369.8
30°	1169.1	1166.1	1162.2	1141.3	1091.4	1053.4	1073.2	1132.7	1142.3	1270.2	1359.9
32.5°	1245.4	1254.8	1251.1	1226.6	1161.8	1097.7	1091.4	1132.1	1140.0	1264.0	1349.0
35°	1326.5	1330.8	1348.0	1335.4	1269.0	1169.4	1125.4	1142.3	1148.6	1264.4	1341.4
37.5°	1390.0	1401.6	1441.9	1452.8	1390.3	1264.4	1180.7	1171.4	1174.0	1280.5	1344.3
40°	1466.7	1486.6	1538.5	1583.1	1542.1	1387.6	1274.6	1225.3	1228.6	1319.5	1363.8
42.5°	1563.9	1577.9	1647.6	1708.2	1701.5	1550.7	1388.3	1313.6	1315.2	1397.2	1418.4
45°	1677.7	1697.6	1775.9	1866.9	1882.4	1735.2	1552.7	1447.2	1446.2	1518.0	1520.3
47.5°	1823.2	1835.5	1913.2	2012.4	2075.3	1967.1	1752.1	1639.0	1628.4	1693.9	1675.1
50°	1957.2	1976.4	2035.2	2143.7	2300.1	2238.7	2014.4	1887.7	1862.9	1924.1	1892.3
52.5°	2013.4	2033.5	2083.2	2217.8	2493.0	2589.9	2347.4	2184.4	2143.0	2190.0	2178.4
55°	1915.8	1942.0	1988.3	2152.0	2577.6	2995.0	2796.6	2527.4	2497.3	2477.1	2480.4
57.5°	1653.6	1678.4	1740.9	1921.4	2476.4	3289.0	3437.8	2968.1	2903.7	2810.8	2826.6
60°	1258.7	1274.3	1306.7	1506.7	2176.4	3365.3	4166.1	3525.5	3484.4	3143.2	3154.3
62.5°	893.9	911.5	933.9	1033.8	1593.4	3150.0	4736.2	4303.6	4157.1	3487.4	3476.5
65°	726.0	714.0	741.2	787.8	934.9	2441.3	4864.5	5383.7	5182.0	3940.8	3789.4
67.5°	596.9	584.4	611.2	694.2	711.1	1417.1	4402.1	6084.9	6044.5	4433.9	4107.2
69°	528.5	521.8	545.4	639.9	682.6	1006.3	3835.0	6182.4	6192.0	4724.7	4156.1
70°	476.3	478.9	501.7	612.5	669.7	829.7	3277.7	6047.8	6129.1	4869.8	4103.2
72.5°	350.5	356.2	388.0	507.3	657.5	704.1	1950.5	5282.6	5426.4	4878.4	3753.6
75°	245.1	242.4	270.5	382.0	621.1	697.8	1145.6	4085.3	4248.4	4216.6	3154.0
77.5°	160.4	164.7	187.2	269.9	522.5	692.5	746.7	2898.4	3004.2	2820.0	1865.6
80°	113.1	112.8	125.3	184.2	387.6	665.4	611.5	1826.9	1800.1	1108.3	553.3
82.5°	64.8	69.5	84.0	129.7	259.3	585.7	562.5	873.7	797.7	315.8	186.9
85°	36.1	37.7	50.0	78.4	151.5	441.2	491.1	397.5	375.0	132.0	80.4
87.5°	11.6	12.5	20.9	39.7	68.8	208.3	278.1	183.5	169.3	47.6	32.4
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°	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1	1379.1
2.5°	1381.1	1385.0	1374.4	1364.2	1354.9	1342.1	1330.5	1320.9	1314.2	1313.3	1309.9
5°	1385.7	1386.1	1365.9	1338.7	1312.3	1283.2	1253.1	1231.6	1211.4	1200.2	1194.6
7.5°	1389.0	1386.1	1349.6	1305.7	1254.8	1201.8	1148.9	1106.6	1073.9	1060.9	1065.9
10°	1387.6	1378.4	1325.2	1254.8	1180.7	1101.6	1025.5	966.1	911.5	883.3	884.0
12.5°	1380.4	1365.2	1288.8	1197.5	1088.8	982.9	866.5	786.1	722.9	685.6	674.0
15°	1374.1	1347.7	1246.1	1119.8	984.6	833.4	691.6	592.3	539.4	510.0	509.6
17.5°	1367.6	1330.8	1199.5	1037.5	864.8	670.4	521.5	445.8	421.0	423.9	419.0
20°	1360.6	1311.0	1150.9	945.9	719.0	500.1	390.6	359.8	366.8	380.3	382.3
22.5°	1352.7	1289.8	1098.6	845.0	565.5	376.3	316.8	312.2	330.1	351.2	354.2
25°	1340.4	1263.4	1032.8	739.5	436.2	303.3	277.4	280.8	298.3	316.1	318.2
27.5°	1323.2	1230.6	966.4	607.9	327.7	260.3	253.6	257.9	266.6	277.4	280.1
30°	1300.0	1193.5	889.9	494.1	262.6	238.8	236.2	238.4	243.4	248.0	249.4
32.5°	1276.9	1157.8	812.9	378.4	234.1	224.5	221.9	221.9	221.9	222.6	222.9
35°	1255.4	1124.1	730.2	294.7	219.2	213.3	209.7	205.7	205.0	202.8	202.8
37.5°	1243.5	1093.4	642.3	246.7	208.3	204.0	199.1	192.5	188.8	189.1	188.5
40°	1245.8	1073.2	562.2	219.6	199.4	194.8	187.2	179.6	177.3	177.3	176.6
42.5°	1271.9	1066.6	485.5	205.4	190.8	185.5	175.9	169.0	167.7	167.4	168.0
45°	1332.1	1082.8	416.7	196.1	183.5	175.6	166.0	159.7	158.4	158.4	158.1
47.5°	1449.5	1135.4	367.4	190.2	178.3	168.0	158.1	151.8	149.4	148.9	148.9
50°	1632.0	1249.5	330.7	184.9	171.6	161.1	150.8	143.6	139.9	139.5	139.3
52.5°	1885.8	1427.3	316.5	180.9	164.3	153.8	142.5	135.6	130.9	129.9	129.3
55°	2182.4	1675.8	336.0	178.0	156.8	145.5	134.0	126.7	122.4	120.3	120.0
57.5°	2526.0	1974.1	410.1	173.9	149.8	136.6	125.3	118.1	113.5	111.1	110.4
60°	2834.6	2280.6	539.4	171.6	143.9	127.0	115.4	108.8	104.5	102.2	101.8
62.5°	3173.5	2573.0	693.8	178.0	141.2	117.7	106.1	100.2	96.5	94.3	94.3
65°	3535.6	2865.6	796.0	199.1	145.2	110.4	96.2	91.2	88.0	86.3	86.0
67.5°	3779.8	2966.9	655.8	220.9	155.1	102.5	86.6	82.7	80.7	79.1	79.1
69°	3753.3	2838.9	483.8	226.6	158.1	98.6	81.3	78.4	75.8	75.1	74.4
70°	3669.6	2693.1	405.4	222.9	155.8	94.9	78.0	74.4	72.1	71.4	71.1
72.5°	3268.5	2335.5	301.9	193.8	132.6	82.3	69.1	65.9	63.8	62.8	62.8
75°	2715.5	1908.9	235.8	154.2	103.9	69.5	59.2	56.5	54.9	54.2	53.9
77.5°	1522.0	1065.9	169.3	120.7	78.7	56.3	49.6	47.3	45.7	45.0	45.0
80°	423.9	304.6	99.6	79.7	53.6	42.6	39.4	37.7	35.4	33.7	34.7
82.5°	159.7	132.0	56.9	47.9	34.1	28.4	27.4	26.2	25.1	22.8	22.8
85°	77.7	64.2	36.4	25.5	18.8	14.9	14.2	13.5	12.9	11.3	11.6
87.5°	26.8	28.4	15.9	9.3	5.6	3.6	2.9	1.7	1.7	1.7	1.7
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)