

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: P646726

Luminaire Tested: **GALN-SA1C-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646726
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-SA1C-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA 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: 5520.9 lumens
Efficiency: N/A
Efficacy: 96.9 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

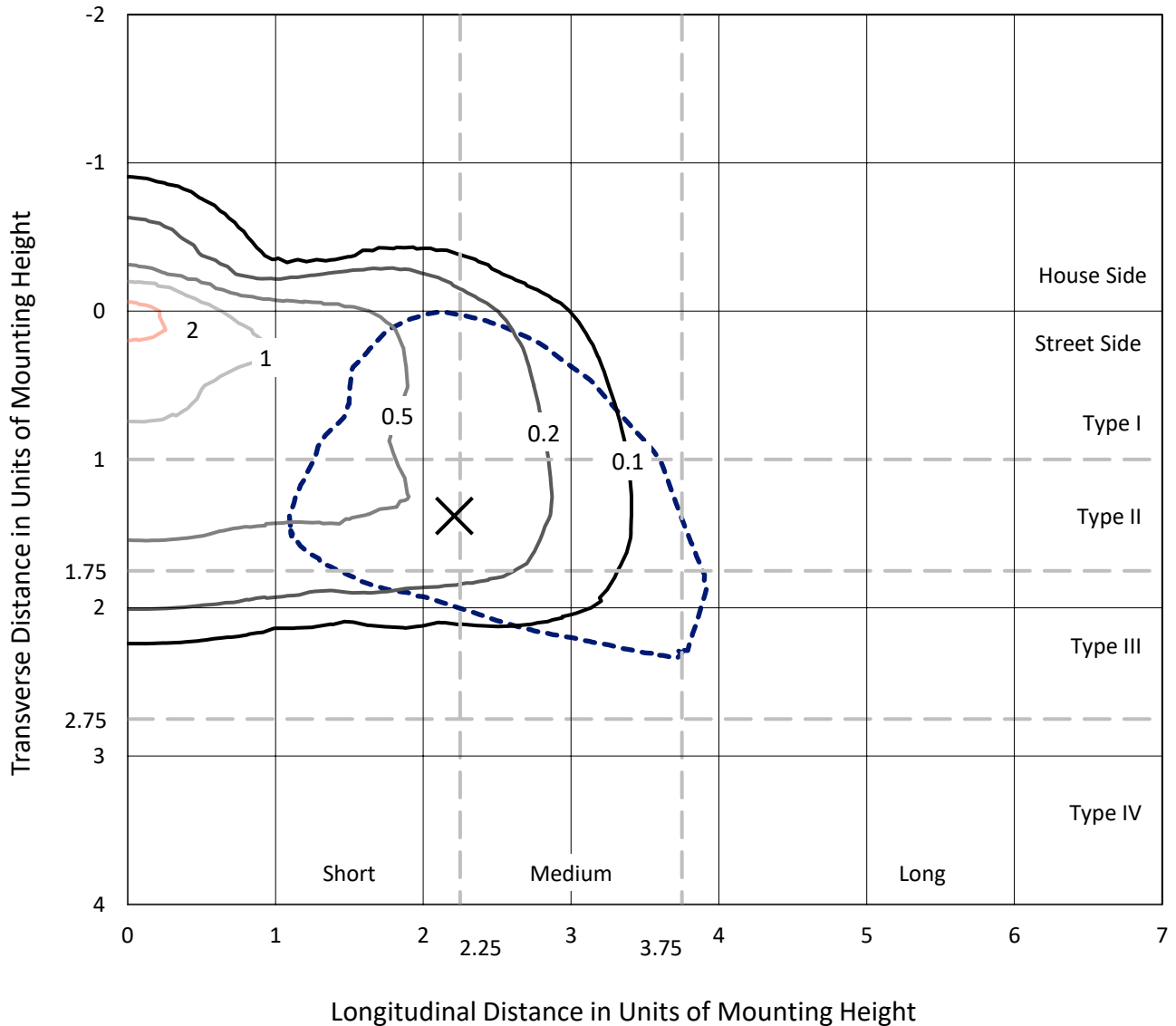
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

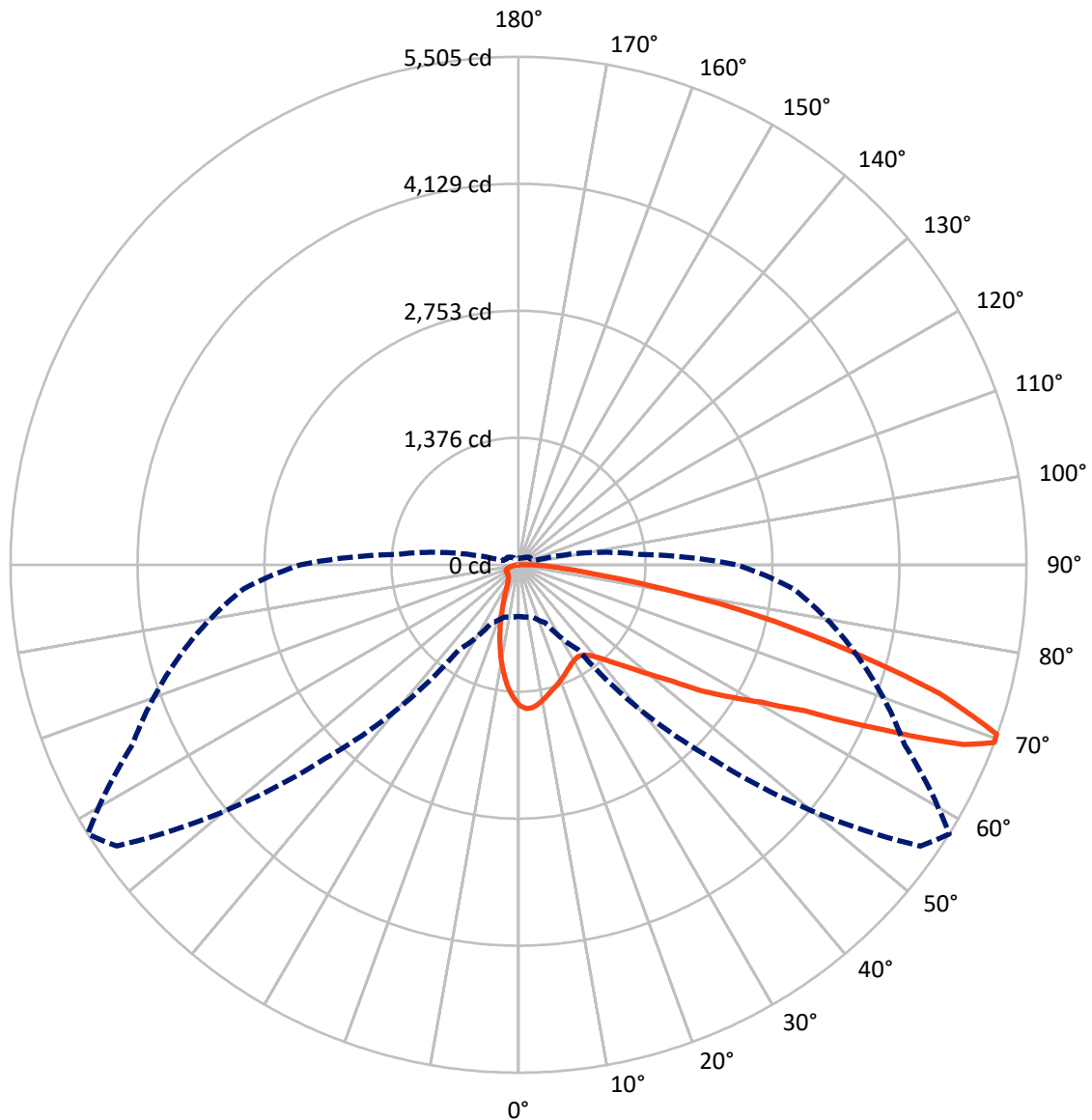
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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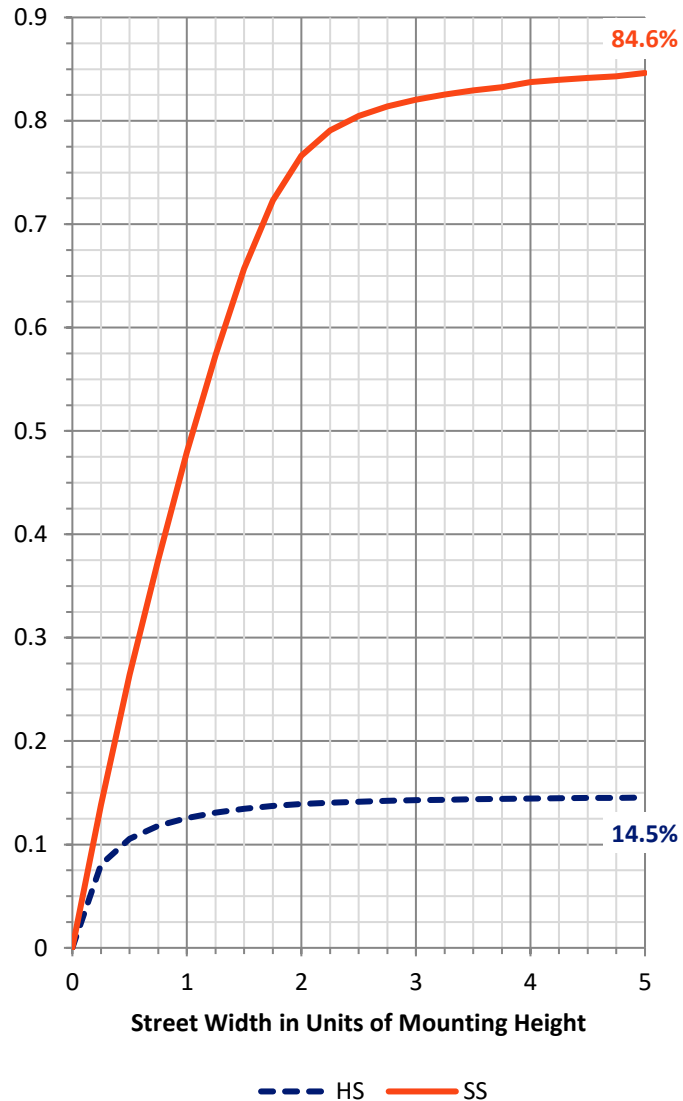
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	809.1	0.0	809.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4711.8	0.0	4711.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	5520.9	0.0	5520.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	2.3
10°-20°	284.5	5.2
20°-30°	367.6	6.7
30°-40°	477.4	8.6
40°-50°	694.1	12.6
50°-60°	1107.6	20.1
60°-70°	1479.6	26.8
70°-80°	852.9	15.4
80°-90°	127.7	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°	5520.9	100.0
0°-180°	5520.9	100.0

Coefficient of Utilization

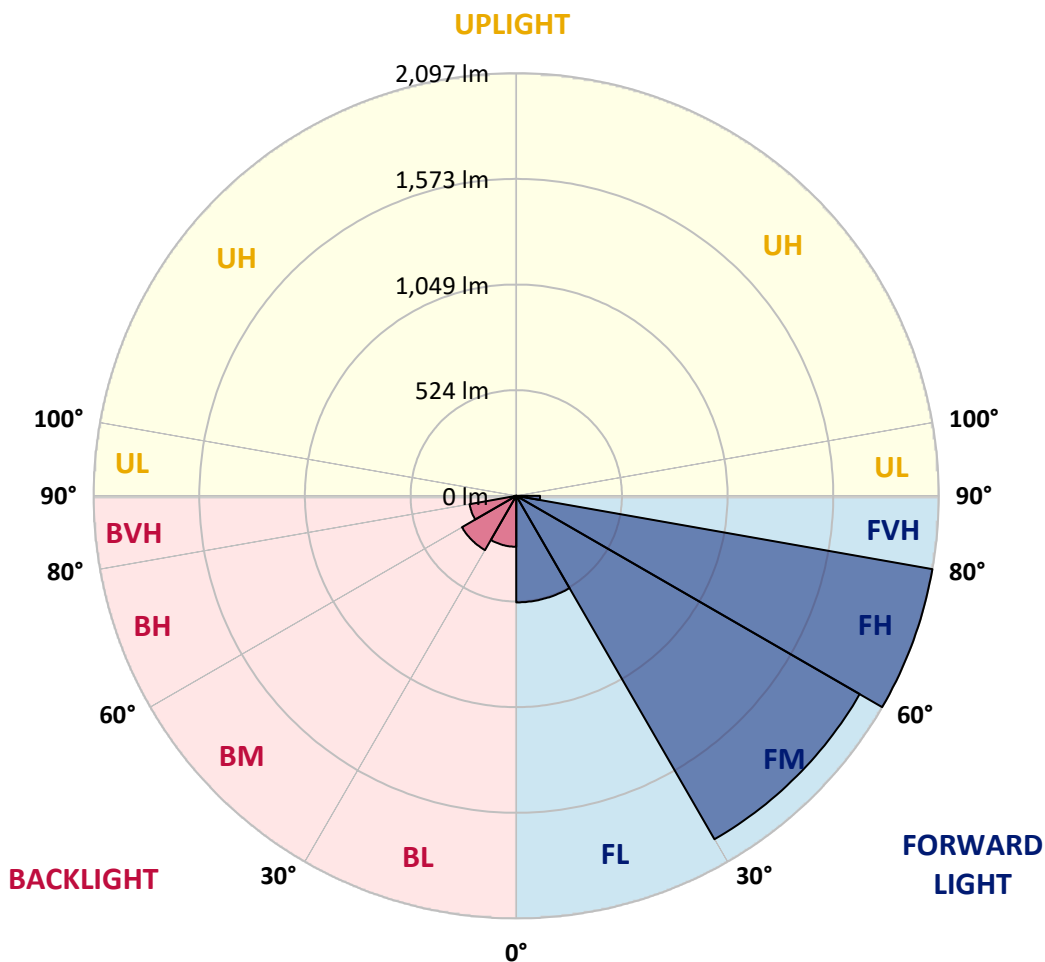


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	528.8	9.6			
FM (30°-60°)	1967.9	35.6			
FH (60°-80°)	2097.2	38.0			G2/5000
FVH (80°-90°)	118.0	2.1			G2/225
BL (0°-30°)	252.9	4.6	B1/500		
BM (30°-60°)	311.1	5.6	B1/1000		
BH (60°-80°)	235.3	4.3	B1/500		G1/500
BVH (80°-90°)	9.8	0.2			G0/10
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°	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7
2.5°	1582.3	1586.6	1585.4	1583.9	1581.4	1574.6	1563.6	1561.7	1554.6	1539.5	1520.7
5°	1558.0	1561.7	1562.0	1564.1	1567.3	1566.0	1558.0	1557.1	1546.6	1526.3	1494.9
7.5°	1474.5	1479.5	1490.3	1502.3	1513.1	1523.2	1525.7	1527.2	1520.7	1497.3	1455.4
10°	1380.7	1385.6	1390.5	1408.4	1434.8	1460.1	1481.0	1483.8	1485.4	1463.7	1412.7
12.5°	1276.6	1286.7	1297.2	1323.7	1359.1	1398.8	1435.8	1441.6	1452.1	1435.8	1375.7
15°	1188.2	1198.7	1213.7	1237.5	1280.3	1337.5	1389.6	1399.1	1419.7	1411.4	1341.2
17.5°	1126.9	1130.7	1141.1	1168.2	1214.4	1274.7	1344.3	1363.4	1396.3	1394.2	1311.7
20°	1078.6	1083.2	1089.7	1106.3	1154.3	1218.0	1302.1	1326.8	1371.4	1378.8	1282.4
22.5°	1058.3	1061.7	1060.7	1069.7	1102.3	1166.4	1259.3	1288.6	1349.3	1368.3	1255.3
25°	1059.5	1062.6	1058.0	1055.8	1075.2	1120.8	1214.7	1251.9	1331.4	1361.2	1230.7
27.5°	1080.1	1082.3	1073.6	1065.0	1066.6	1092.4	1177.7	1219.0	1316.3	1364.3	1210.0
30°	1107.9	1111.9	1106.3	1095.8	1084.5	1085.6	1154.0	1194.7	1309.2	1375.1	1200.2
32.5°	1143.6	1147.3	1144.8	1136.4	1121.7	1105.4	1148.2	1185.8	1309.8	1397.0	1198.1
35°	1181.2	1188.5	1192.5	1191.9	1179.9	1151.6	1171.3	1202.4	1324.6	1433.6	1210.7
37.5°	1223.6	1229.8	1247.0	1258.1	1247.0	1214.0	1223.3	1244.9	1357.3	1486.5	1238.4
40°	1264.9	1274.1	1299.4	1333.8	1329.5	1300.6	1302.8	1316.9	1414.8	1565.4	1292.6
42.5°	1308.0	1319.0	1363.1	1414.2	1424.4	1401.9	1407.8	1420.4	1496.7	1674.7	1385.6
45°	1363.4	1376.7	1430.9	1494.6	1534.6	1520.7	1537.3	1543.5	1606.3	1817.0	1508.1
47.5°	1434.8	1450.2	1517.1	1596.5	1653.1	1665.8	1694.7	1691.0	1742.1	1985.4	1667.0
50°	1555.2	1563.8	1627.0	1708.0	1785.9	1842.8	1874.2	1880.1	1910.5	2149.2	1844.7
52.5°	1698.4	1706.1	1751.6	1822.5	1920.1	2040.8	2118.4	2099.3	2106.7	2348.7	2052.5
55°	1859.5	1872.4	1901.3	1948.4	2075.0	2252.6	2408.4	2413.0	2331.1	2539.6	2251.7
57.5°	1984.1	2006.0	2055.5	2122.7	2283.1	2488.1	2697.5	2700.6	2596.0	2743.4	2471.5
60°	1921.3	1947.2	2060.5	2224.0	2556.2	2899.2	3043.0	3025.4	2853.6	2975.6	2739.7
62.5°	1650.3	1654.9	1819.7	2075.3	2640.3	3449.1	3557.2	3483.0	3197.6	3270.0	3012.2
65°	1068.1	1098.3	1228.8	1586.9	2364.1	3754.3	4458.2	4286.6	3679.8	3604.0	3240.4
67.5°	674.3	666.6	720.8	906.2	1626.1	3485.4	5227.0	5199.9	4310.3	3814.9	3185.9
69°	559.1	567.8	586.2	694.6	1118.9	2975.9	5317.8	5505.0	4616.1	3798.3	2987.9
70°	507.1	511.1	530.5	615.8	863.3	2492.4	5168.8	5496.7	4736.2	3728.7	2844.4
72.5°	402.5	402.1	435.3	512.3	645.3	1422.8	4244.2	4772.2	4601.9	3404.8	2350.3
75°	305.8	310.7	347.3	433.5	594.5	777.4	2961.7	3675.2	3675.5	2689.2	1466.6
77.5°	220.5	223.5	266.3	363.9	560.1	630.3	1972.8	2636.0	2478.0	1232.2	461.0
80°	144.4	146.3	178.9	288.2	505.0	594.5	1169.7	1613.4	1168.8	327.0	152.5
82.5°	79.2	88.4	109.3	186.6	405.2	549.3	711.0	816.6	438.5	145.6	79.5
85°	39.7	42.2	61.5	109.0	264.8	454.5	495.1	468.3	226.3	72.3	41.3
87.5°	11.7	14.8	25.5	42.2	107.4	236.8	275.5	247.3	87.1	26.2	8.6
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°	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7
2.5°	1513.1	1507.5	1482.8	1460.7	1440.4	1418.8	1400.6	1384.7	1386.1	1386.5	1370.2
5°	1478.5	1465.9	1419.1	1375.4	1338.5	1291.6	1251.6	1225.8	1212.9	1195.6	1201.7
7.5°	1431.7	1407.4	1342.5	1269.8	1201.7	1141.1	1075.2	1030.0	1001.0	973.0	976.6
10°	1383.4	1344.3	1249.7	1153.8	1065.7	968.6	884.6	812.5	759.0	739.0	725.8
12.5°	1333.8	1282.4	1162.4	1034.6	912.9	796.9	677.7	600.4	541.3	509.9	513.9
15°	1288.6	1226.1	1071.2	915.4	757.5	619.2	500.3	426.7	385.5	376.9	381.8
17.5°	1246.7	1164.8	985.9	799.6	615.2	464.3	375.9	334.4	317.7	313.1	312.8
20°	1203.6	1112.8	890.1	675.9	479.4	359.9	308.5	289.1	286.0	287.9	288.2
22.5°	1159.9	1048.4	791.6	553.0	381.8	294.3	269.7	264.5	266.9	271.2	271.9
25°	1119.5	991.7	696.8	445.2	304.8	258.6	246.6	246.6	252.2	258.6	258.9
27.5°	1086.3	936.9	602.3	353.4	255.3	232.8	228.8	230.9	238.7	243.5	243.8
30°	1058.9	885.8	512.9	283.3	224.5	212.1	211.3	214.9	220.5	225.1	225.3
32.5°	1038.3	840.9	429.6	238.0	203.2	196.5	196.1	198.9	202.0	203.2	204.4
35°	1030.3	803.6	353.1	209.4	189.0	184.7	184.7	184.4	185.6	186.3	186.9
37.5°	1036.7	775.0	294.0	190.9	178.6	175.5	173.7	171.8	171.2	171.2	171.5
40°	1064.1	759.9	250.0	178.9	171.2	166.5	163.2	161.1	158.9	159.5	160.1
42.5°	1122.3	762.6	220.2	170.9	164.7	158.2	153.3	150.9	149.3	151.2	150.9
45°	1215.0	790.4	201.1	165.4	158.2	149.9	145.3	142.9	142.9	145.6	146.6
47.5°	1344.6	843.4	190.9	161.1	153.3	143.4	138.8	137.0	137.7	142.3	142.6
50°	1502.9	935.5	189.0	158.9	150.9	138.8	133.7	131.8	133.3	138.3	138.8
52.5°	1677.4	1053.9	198.0	159.2	148.7	136.1	129.4	126.5	128.1	132.1	133.3
55°	1884.4	1202.4	221.0	160.4	145.6	134.5	126.2	120.1	121.9	124.7	125.0
57.5°	2095.6	1389.6	261.8	160.7	143.2	131.8	121.0	113.0	113.0	114.9	115.8
60°	2353.6	1593.4	315.3	161.1	143.4	127.8	113.9	105.0	103.7	104.7	105.0
62.5°	2609.8	1763.9	324.2	160.1	146.6	123.8	106.3	97.0	94.8	94.5	93.9
65°	2722.8	1732.2	265.8	155.8	149.9	121.3	100.1	89.3	85.6	84.3	84.3
67.5°	2538.6	1465.3	199.8	149.9	147.8	118.9	94.2	82.8	78.5	76.0	76.0
69°	2365.6	1303.4	179.5	146.0	142.3	114.9	90.5	79.5	74.2	71.4	70.5
70°	2232.0	1191.9	170.9	142.6	137.0	110.2	87.8	77.0	71.1	68.0	67.4
72.5°	1781.2	935.1	149.6	129.7	116.7	92.7	77.9	69.3	63.7	60.4	59.4
75°	1026.5	506.8	124.1	112.7	93.9	72.0	65.9	60.4	56.1	52.9	52.1
77.5°	315.9	195.8	89.9	88.9	69.0	55.7	52.6	50.5	47.4	44.0	43.4
80°	133.0	99.8	61.0	60.1	45.9	38.8	37.9	37.6	36.3	33.6	32.7
82.5°	73.0	56.4	42.5	37.0	27.7	22.5	23.4	23.7	22.8	20.0	18.2
85°	35.7	30.8	20.6	16.6	12.6	8.0	7.7	9.2	8.6	6.2	6.8
87.5°	7.0	8.6	5.6	2.4	1.3	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)