

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: P534598

Luminaire Tested: **GALN-SA5A-AMB-U-SL3**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-6)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-AMB-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) NARROW BAND AMBER, 500mA 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: 5230 lumens
Efficiency: N/A
Efficacy: 52.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

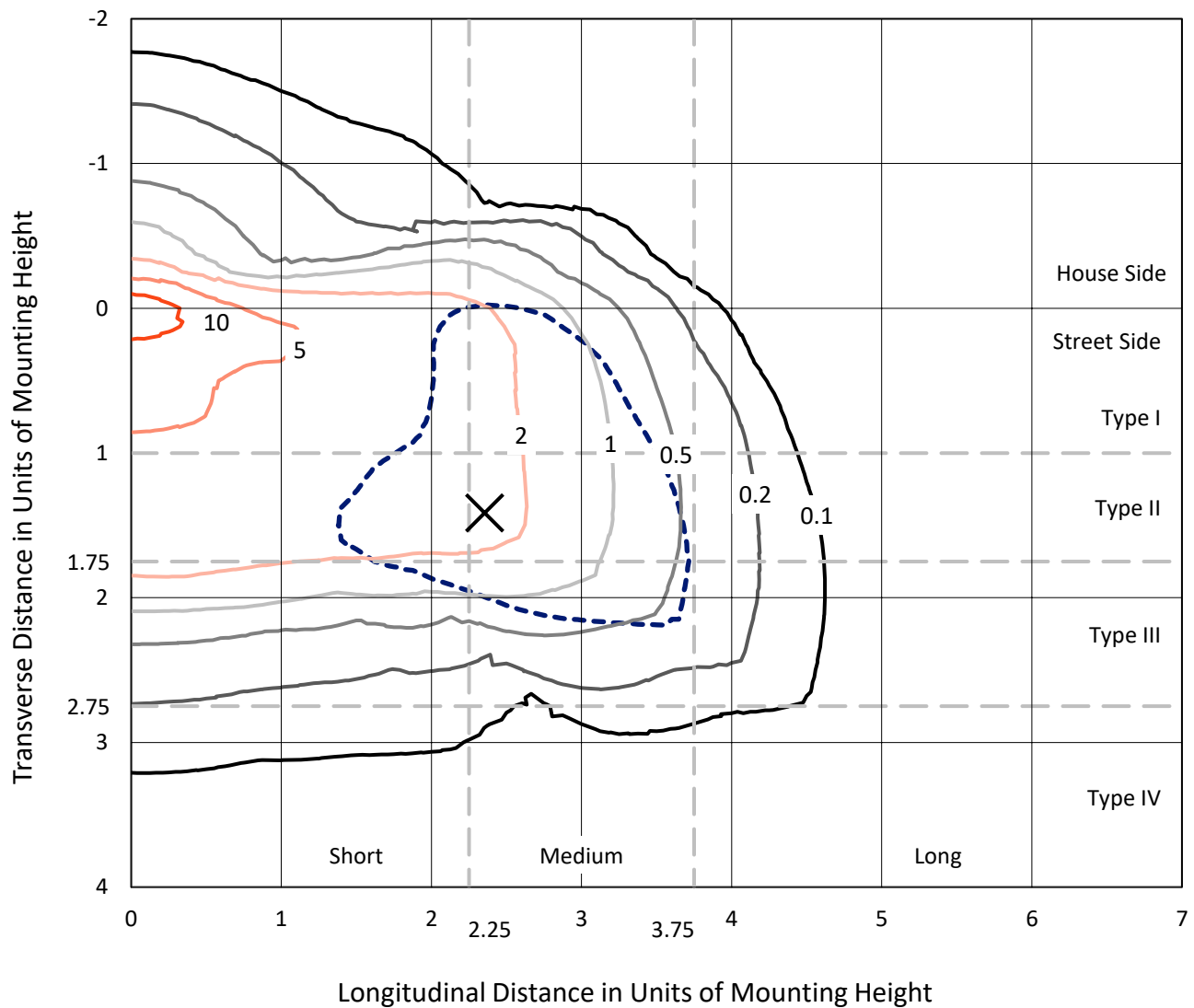
Input Watts (W): 100.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

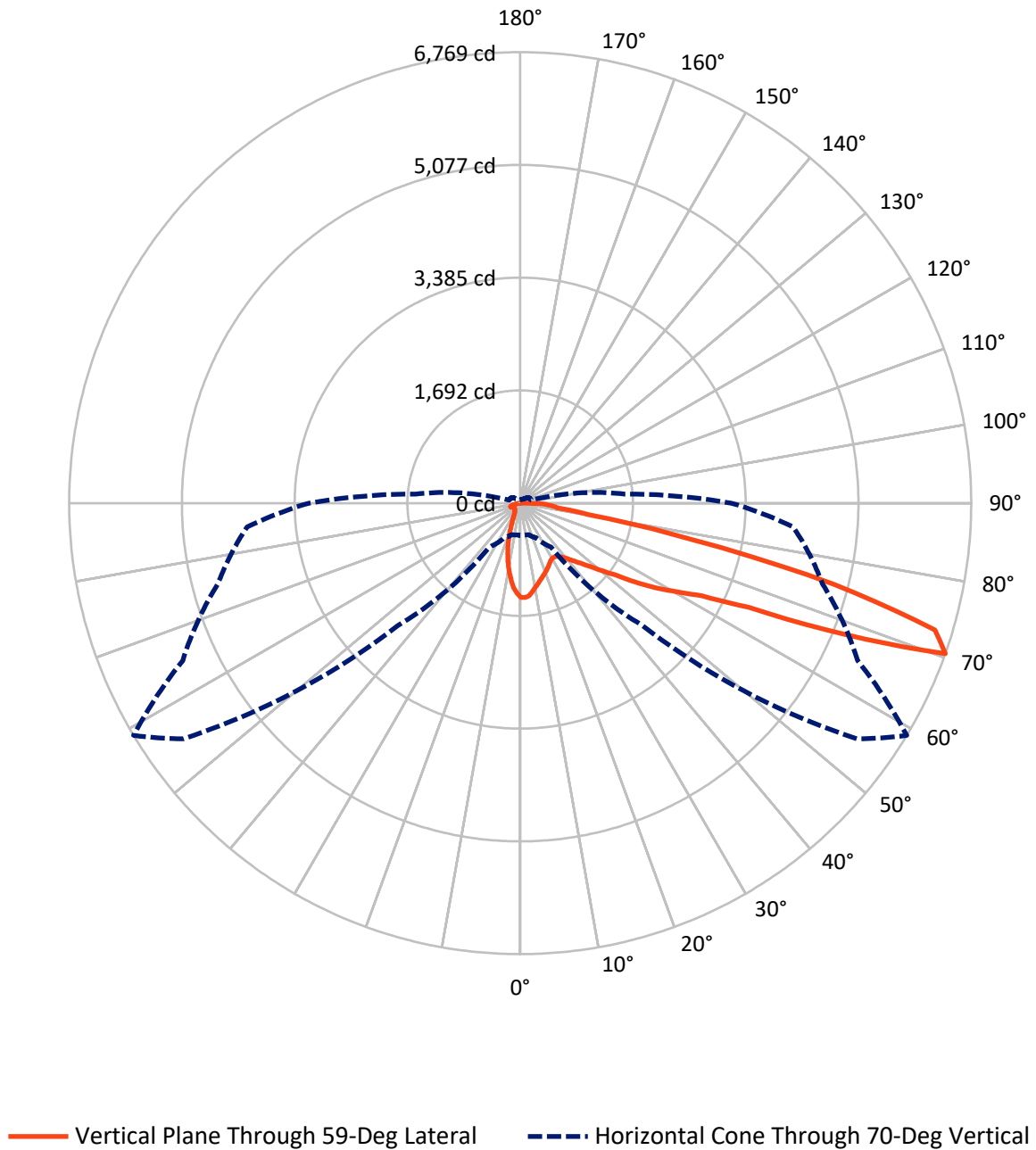


Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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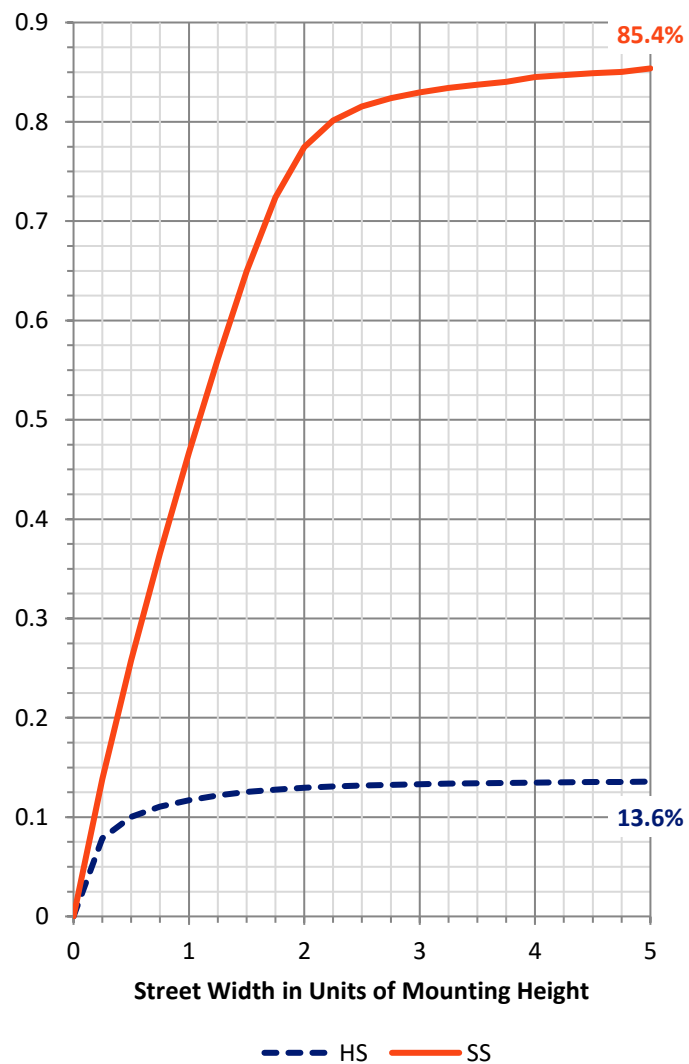
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	716.7	0.0	716.7
	% Fixture	13.7	0.0	13.7
Street Side	Lumens	4513.3	0.0	4513.3
	% Fixture	86.3	0.0	86.3
Total	Lumens	5230.0	0.0	5230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	2.2
10°-20°	243.0	4.6
20°-30°	307.0	5.9
30°-40°	401.8	7.7
40°-50°	597.0	11.4
50°-60°	978.0	18.7
60°-70°	1521.6	29.1
70°-80°	942.5	18.0
80°-90°	122.9	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°	5230.0	100.0
0°-180°	5230.0	100.0

Coefficient of Utilization



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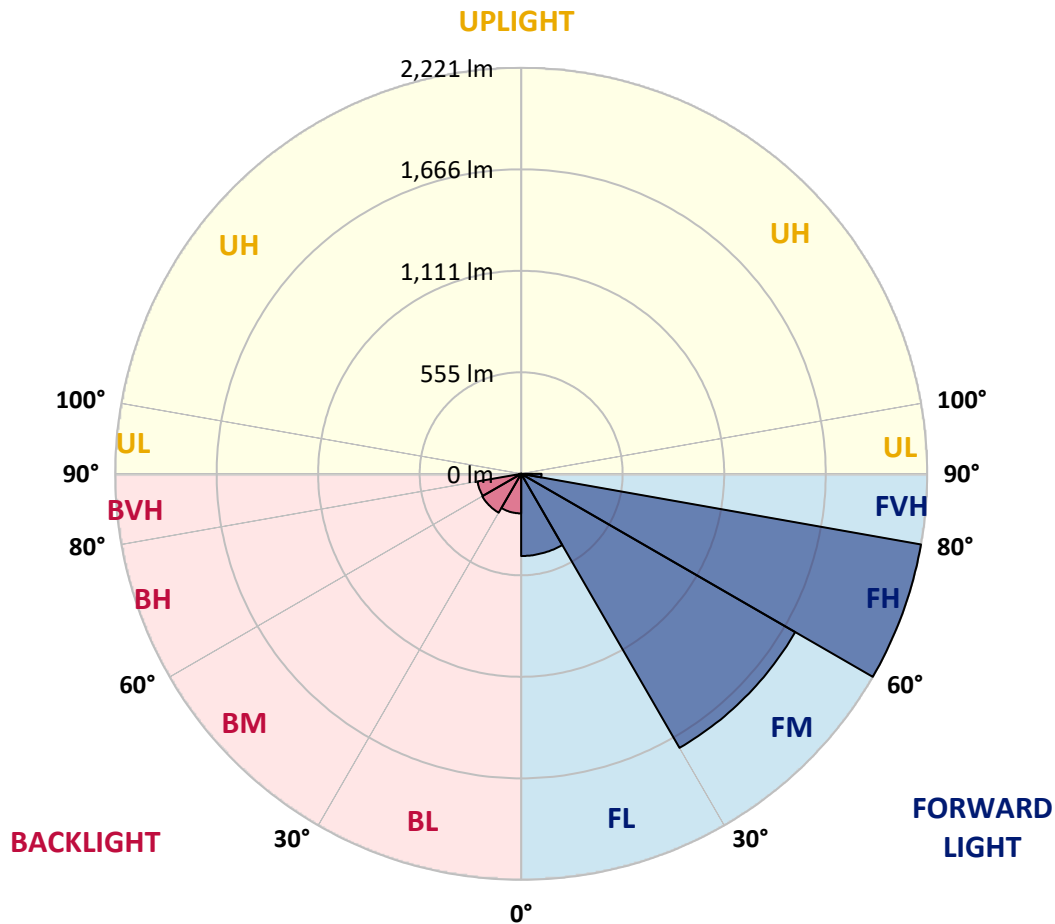
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	449.7	8.6			
FM	(30°-60°)	1731.1	33.1			
FH	(60°-80°)	2221.4	42.5			G2/5000
FVH	(80°-90°)	111.1	2.1			G2/225
BL	(0°-30°)	216.6	4.1	B1/500		
BM	(30°-60°)	245.7	4.7	B1/1000		
BH	(60°-80°)	242.6	4.6	B1/500		G1/500
BVH	(80°-90°)	11.8	0.2			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°	59°	65°	75°	85°
0°	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9
2.5°	1421.6	1421.6	1421.6	1410.0	1430.8	1423.9	1426.2	1419.2	1423.9	1416.9	1410.0
5°	1352.0	1352.0	1347.4	1349.7	1368.2	1382.1	1391.4	1396.1	1386.8	1391.4	1377.5
7.5°	1236.0	1245.3	1247.6	1259.2	1282.4	1307.9	1324.2	1335.8	1340.4	1342.7	1326.5
10°	1127.0	1129.4	1145.6	1159.5	1198.9	1229.1	1266.2	1275.5	1289.4	1307.9	1291.7
12.5°	1048.2	1059.8	1064.4	1083.0	1124.7	1159.5	1203.6	1226.8	1247.6	1282.4	1275.5
15°	976.3	974.0	983.3	1013.4	1057.5	1108.5	1159.5	1178.1	1210.5	1256.9	1247.6
17.5°	920.7	920.7	932.3	957.8	992.5	1045.9	1115.5	1136.3	1180.4	1240.7	1222.1
20°	892.8	895.1	899.8	906.7	934.6	997.2	1062.1	1096.9	1145.6	1226.8	1203.6
22.5°	888.2	885.9	883.6	885.9	902.1	936.9	1011.1	1055.2	1120.1	1219.8	1180.4
25°	895.1	892.8	890.5	888.2	888.2	911.4	976.3	1013.4	1089.9	1217.5	1157.2
27.5°	913.7	918.3	906.7	895.1	883.6	892.8	936.9	976.3	1059.8	1226.8	1145.6
30°	946.2	948.5	943.8	927.6	904.4	892.8	920.7	955.4	1034.3	1236.0	1136.3
32.5°	983.3	983.3	983.3	969.4	941.5	909.1	923.0	955.4	1032.0	1259.2	1129.4
35°	1022.7	1032.0	1032.0	1018.1	994.9	941.5	950.8	981.0	1050.5	1289.4	1147.9
37.5°	1078.3	1080.7	1078.3	1080.7	1055.2	999.5	1001.8	1027.3	1083.0	1333.4	1175.7
40°	1131.7	1124.7	1141.0	1154.9	1138.6	1076.0	1069.1	1096.9	1141.0	1405.3	1226.8
42.5°	1180.4	1182.7	1194.3	1219.8	1233.7	1175.7	1164.2	1185.0	1215.2	1491.1	1312.6
45°	1226.8	1233.7	1277.8	1305.6	1333.4	1275.5	1268.5	1291.7	1324.2	1593.2	1440.1
47.5°	1268.5	1273.1	1328.8	1396.1	1444.8	1419.2	1410.0	1426.2	1442.4	1741.6	1600.1
50°	1307.9	1324.2	1396.1	1481.9	1565.3	1593.2	1574.6	1593.2	1590.9	1892.3	1776.4
52.5°	1416.9	1433.2	1512.0	1597.8	1695.2	1771.7	1801.9	1790.3	1774.1	2059.3	1978.1
55°	1653.5	1646.5	1688.3	1741.6	1852.9	1952.6	2101.0	2082.5	2010.6	2233.2	2177.6
57.5°	1885.4	1922.5	1922.5	1908.6	2019.9	2191.5	2388.6	2393.2	2256.4	2421.1	2414.1
60°	1978.1	2019.9	2115.0	2240.2	2372.4	2465.1	2697.0	2697.0	2506.9	2634.4	2657.6
62.5°	1764.8	1825.1	1973.5	2228.6	2701.7	3191.0	3165.5	3058.8	2843.1	2940.5	3042.6
65°	1089.9	1106.2	1291.7	1797.2	2576.4	3835.7	4069.9	3761.5	3355.6	3457.7	3680.3
67.5°	656.3	665.6	707.3	923.0	1637.2	3768.4	5468.3	5266.5	4297.2	4174.3	4199.8
70°	484.7	477.7	489.3	577.4	802.4	2599.6	6166.3	6769.3	5586.5	4698.4	4114.0
72.5°	385.0	389.6	394.2	480.0	598.3	1080.7	5373.2	6509.5	5997.0	4424.7	3116.8
75°	301.5	303.8	327.0	405.8	572.8	582.1	3402.0	4863.0	4459.5	2989.2	1368.2
77.5°	224.9	231.9	255.1	338.6	549.6	558.9	1481.9	2664.6	2265.7	1229.1	366.4
80°	148.4	150.7	173.9	278.3	519.5	561.2	670.2	1043.6	698.0	262.1	134.5
82.5°	83.5	88.1	109.0	173.9	429.0	545.0	563.5	558.9	317.7	129.9	71.9
85°	46.4	46.4	64.9	102.0	255.1	528.7	533.4	470.8	220.3	71.9	39.4
87.5°	20.9	20.9	30.1	46.4	120.6	350.2	394.2	336.3	139.1	30.1	13.9
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°	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9	1416.9
2.5°	1398.4	1389.1	1377.5	1352.0	1349.7	1331.1	1326.5	1305.6	1294.0	1310.3	1296.3
5°	1372.9	1361.3	1317.2	1301.0	1245.3	1210.5	1185.0	1152.6	1129.4	1129.4	1131.7
7.5°	1324.2	1303.3	1243.0	1185.0	1115.5	1057.5	999.5	934.6	904.4	899.8	878.9
10°	1280.1	1247.6	1164.2	1073.7	978.6	876.6	788.5	702.7	635.4	586.7	589.0
12.5°	1243.0	1203.6	1089.9	967.0	825.6	695.7	563.5	461.5	394.2	378.0	378.0
15°	1215.2	1150.2	1006.5	846.4	679.5	510.2	382.6	310.8	278.3	262.1	262.1
17.5°	1171.1	1089.9	923.0	730.5	519.5	359.4	282.9	250.5	236.5	231.9	229.6
20°	1127.0	1034.3	814.0	586.7	375.7	262.1	229.6	215.7	211.0	211.0	213.4
22.5°	1087.6	964.7	709.6	440.6	269.0	215.7	197.1	192.5	194.8	199.4	197.1
25°	1050.5	906.7	607.6	322.3	208.7	180.9	176.2	176.2	180.9	185.5	187.8
27.5°	1015.7	862.7	496.3	238.9	176.2	160.0	160.0	164.7	171.6	173.9	176.2
30°	990.2	811.7	391.9	190.2	153.1	148.4	148.4	153.1	155.4	160.0	160.0
32.5°	969.4	769.9	299.2	162.3	141.5	139.1	139.1	141.5	143.8	146.1	148.4
35°	962.4	725.9	234.2	143.8	134.5	132.2	132.2	132.2	134.5	136.8	136.8
37.5°	969.4	693.4	190.2	134.5	127.5	125.2	125.2	125.2	125.2	125.2	125.2
40°	1001.8	670.2	164.7	129.9	122.9	120.6	118.3	118.3	118.3	120.6	120.6
42.5°	1069.1	649.3	153.1	125.2	120.6	116.0	113.6	111.3	111.3	116.0	116.0
45°	1159.5	651.6	146.1	122.9	118.3	111.3	106.7	106.7	109.0	113.6	116.0
47.5°	1273.1	674.8	141.5	120.6	113.6	106.7	104.4	104.4	106.7	113.6	113.6
50°	1412.3	718.9	141.5	120.6	113.6	104.4	102.0	102.0	104.4	111.3	113.6
52.5°	1570.0	795.4	143.8	120.6	113.6	104.4	99.7	99.7	102.0	109.0	109.0
55°	1776.4	902.1	148.4	122.9	111.3	104.4	99.7	95.1	97.4	102.0	102.0
57.5°	1957.3	1059.8	155.4	122.9	111.3	104.4	97.4	90.4	90.4	95.1	95.1
60°	2244.8	1277.8	183.2	129.9	111.3	99.7	90.4	83.5	83.5	85.8	85.8
62.5°	2627.5	1648.8	211.0	141.5	118.3	97.4	85.8	78.8	76.5	76.5	76.5
65°	3269.8	2057.0	215.7	155.4	129.9	97.4	78.8	71.9	69.6	69.6	69.6
67.5°	3520.3	2063.9	197.1	162.3	143.8	97.4	76.5	67.3	62.6	62.6	62.6
70°	3172.4	1574.6	173.9	162.3	150.7	95.1	74.2	64.9	58.0	55.7	55.7
72.5°	2161.3	839.5	155.4	153.1	134.5	83.5	71.9	60.3	53.3	51.0	48.7
75°	865.0	292.2	134.5	139.1	104.4	67.3	60.3	53.3	48.7	44.1	44.1
77.5°	218.0	143.8	102.0	109.0	74.2	53.3	51.0	48.7	41.7	39.4	39.4
80°	120.6	97.4	76.5	74.2	48.7	37.1	37.1	37.1	34.8	32.5	32.5
82.5°	67.3	60.3	51.0	46.4	32.5	25.5	25.5	25.5	25.5	23.2	20.9
85°	37.1	34.8	30.1	23.2	18.6	13.9	13.9	13.9	13.9	11.6	11.6
87.5°	13.9	13.9	11.6	7.0	4.6	2.3	2.3	2.3	2.3	2.3	2.3
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)