

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: P650686

Luminaire Tested: **GALN-SA1C-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650686
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-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 5929.9 lumens
Efficiency: N/A
Efficacy: 104.0 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

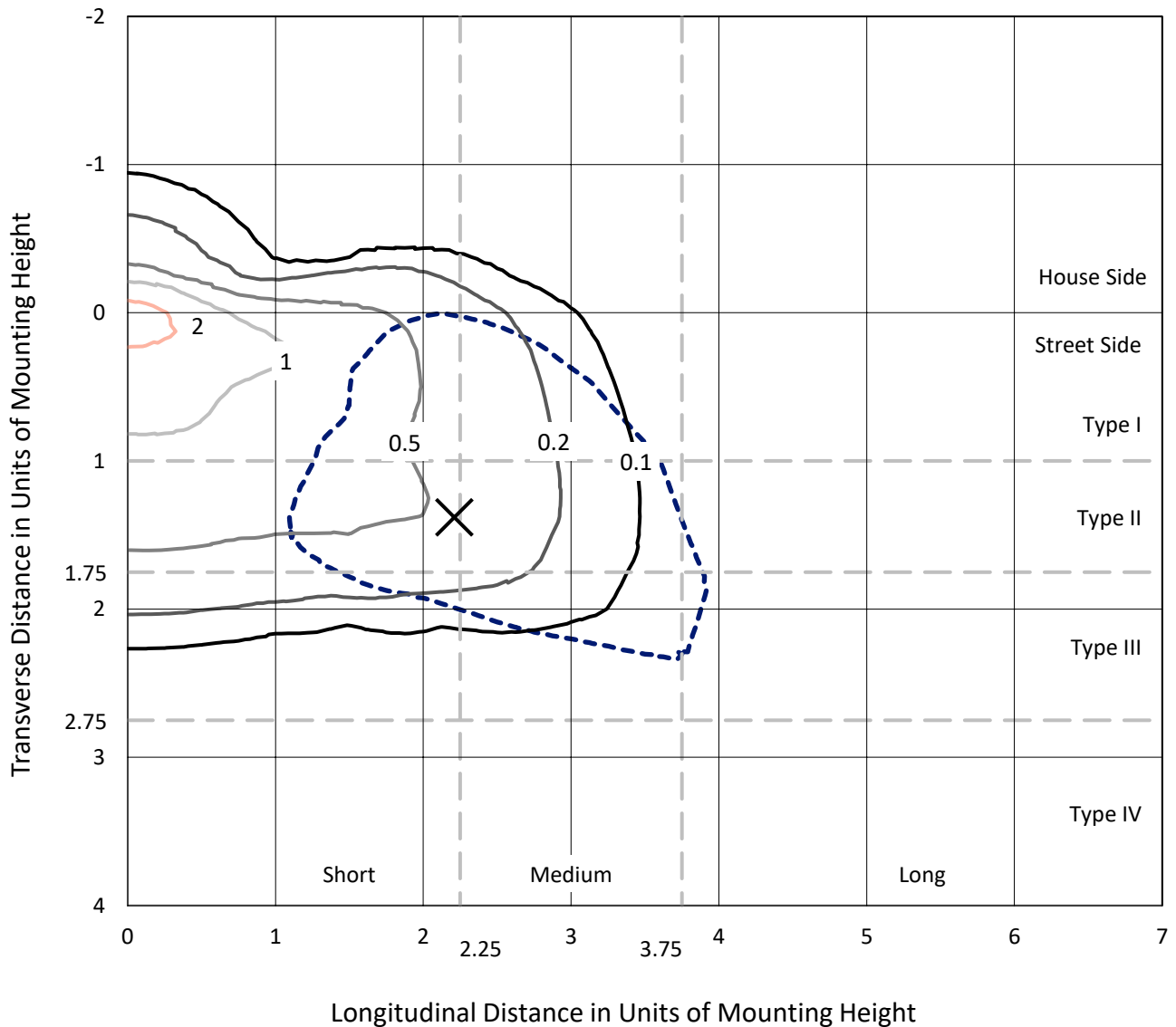
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650686
 CATALOG NUMBER: GALN-SA1C-840-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

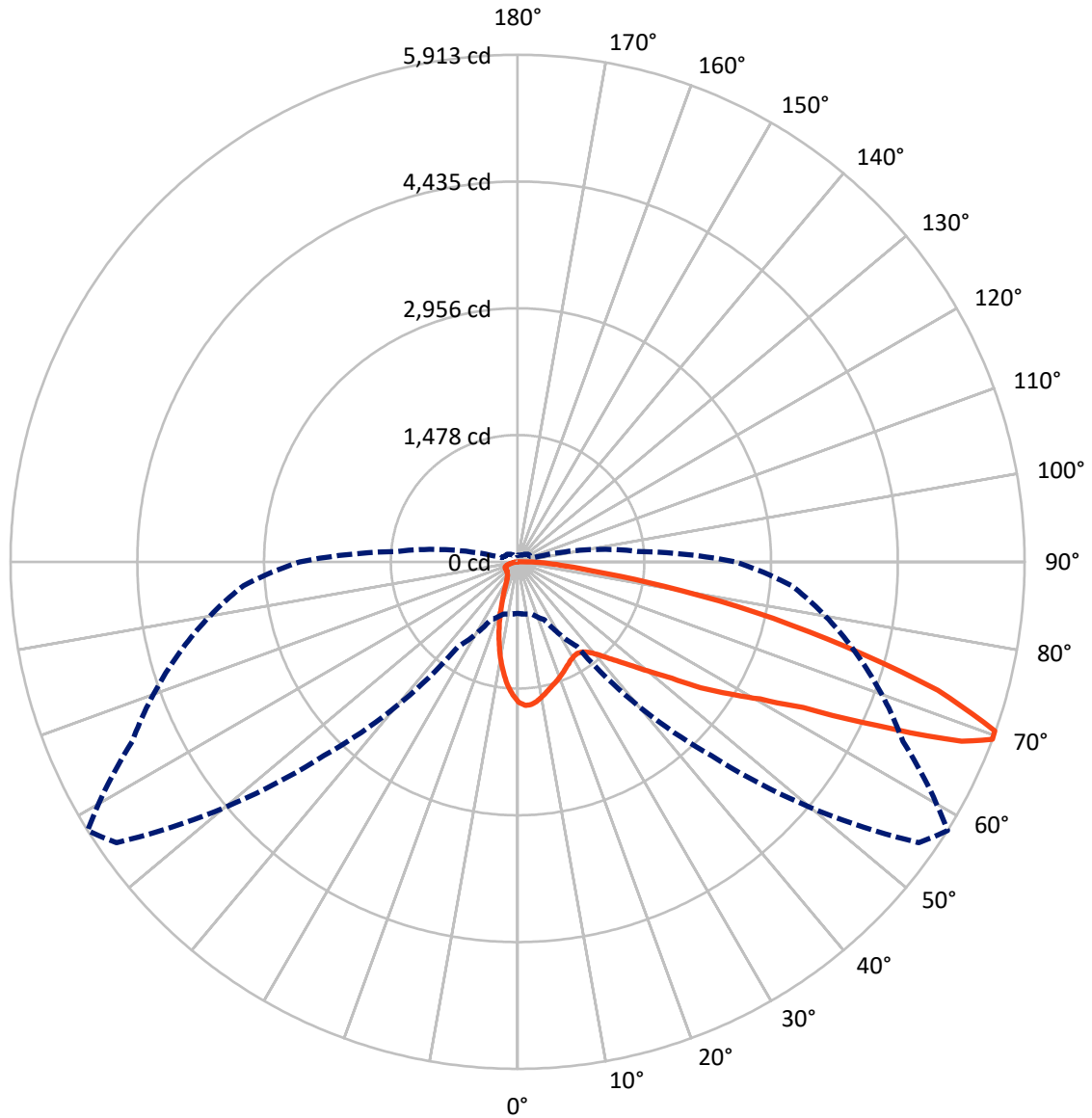
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

REPORT NUMBER: P650686
CATALOG NUMBER: GALN-SA1C-840-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P650686
 CATALOG NUMBER: GALN-SA1C-840-U-SL3

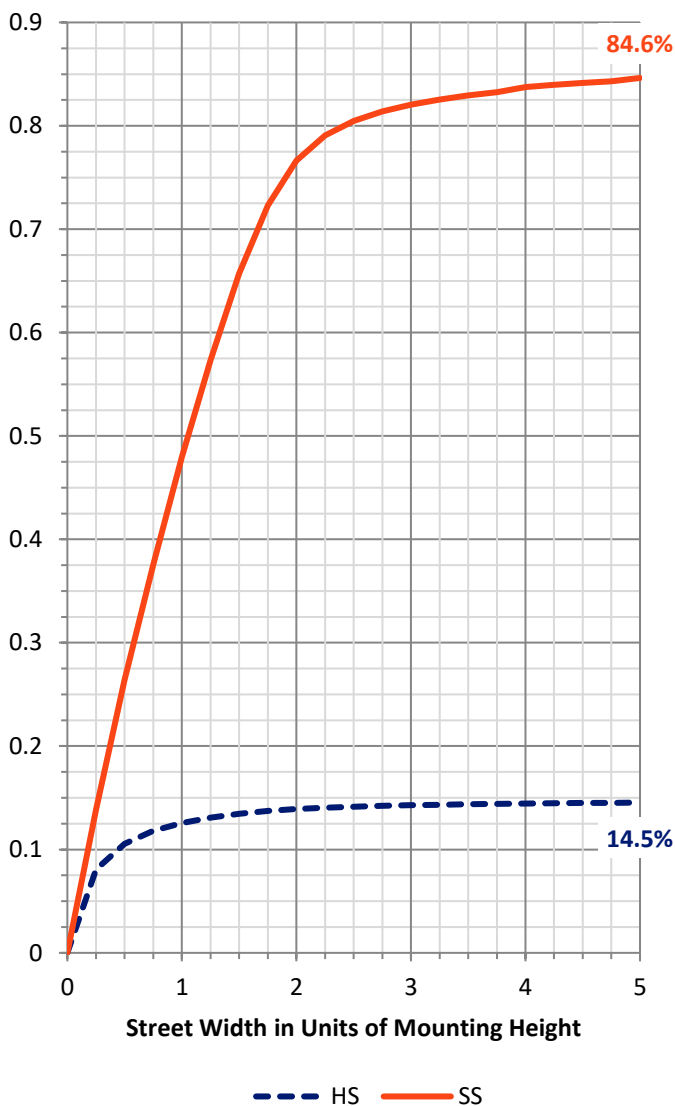
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	869.0	0.0	869.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5060.9	0.0	5060.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	5929.9	0.0	5929.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	2.3
10°-20°	305.6	5.2
20°-30°	394.8	6.7
30°-40°	512.8	8.6
40°-50°	745.5	12.6
50°-60°	1189.6	20.1
60°-70°	1589.2	26.8
70°-80°	916.1	15.4
80°-90°	137.2	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°	5929.9	100.0
0°-180°	5929.9	100.0

Coefficient of Utilization

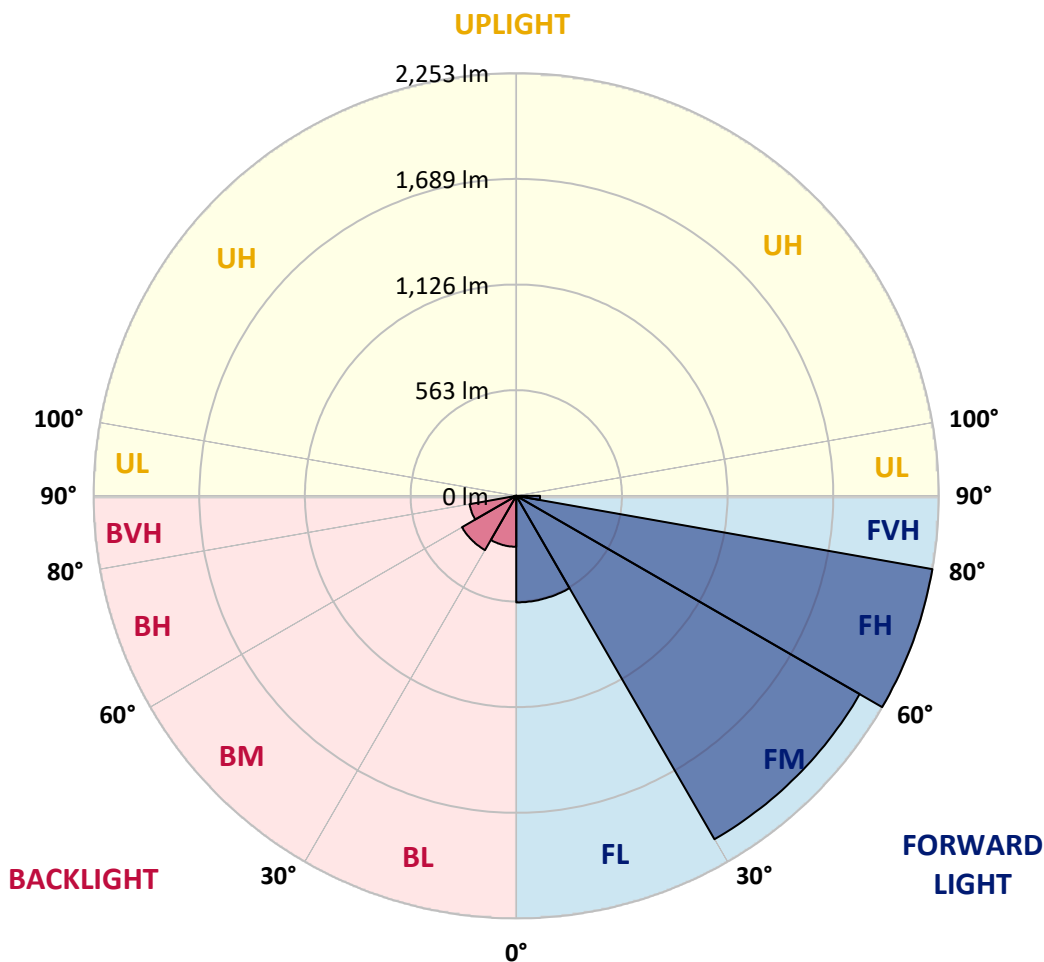


REPORT NUMBER: P650686
 CATALOG NUMBER: GALN-SA1C-840-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.9	9.6			
FM (30°-60°)	2113.7	35.6			
FH (60°-80°)	2252.5	38.0			G2/5000
FVH (80°-90°)	126.7	2.1			G2/225
BL (0°-30°)	271.6	4.6	B1/500		
BM (30°-60°)	334.2	5.6	B1/1000		
BH (60°-80°)	252.7	4.3	B1/500		G1/500
BVH (80°-90°)	10.5	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 Short





REPORT NUMBER: P650686

CATALOG NUMBER: GALN-SA1C-840-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7
2.5°	1699.5	1704.1	1702.9	1701.2	1698.6	1691.3	1679.4	1677.4	1669.7	1653.6	1633.4
5°	1673.4	1677.4	1677.7	1680.0	1683.3	1682.0	1673.4	1672.4	1661.1	1639.4	1605.6
7.5°	1583.8	1589.1	1600.7	1613.5	1625.1	1636.0	1638.7	1640.3	1633.4	1608.2	1563.3
10°	1482.9	1488.2	1493.5	1512.7	1541.1	1568.2	1590.8	1593.7	1595.4	1572.2	1517.3
12.5°	1371.2	1382.0	1393.3	1421.7	1459.7	1502.4	1542.1	1548.4	1559.6	1542.1	1477.6
15°	1276.2	1287.5	1303.6	1329.1	1375.1	1436.6	1492.5	1502.8	1524.9	1516.0	1440.5
17.5°	1210.4	1214.4	1225.6	1254.7	1304.3	1369.1	1443.9	1464.3	1499.8	1497.5	1408.8
20°	1158.5	1163.4	1170.4	1188.2	1239.8	1308.3	1398.6	1425.1	1473.0	1480.9	1377.4
22.5°	1136.7	1140.3	1139.3	1148.9	1184.0	1252.8	1352.6	1384.0	1449.2	1469.6	1348.3
25°	1138.0	1141.3	1136.4	1134.0	1154.9	1203.8	1304.6	1344.7	1430.0	1462.1	1321.9
27.5°	1160.2	1162.4	1153.2	1143.9	1145.6	1173.4	1264.9	1309.3	1413.8	1465.4	1299.7
30°	1189.9	1194.2	1188.2	1177.0	1164.8	1166.0	1239.5	1283.2	1406.2	1477.0	1289.1
32.5°	1228.3	1232.2	1229.6	1220.6	1204.8	1187.2	1233.2	1273.6	1406.8	1500.4	1286.8
35°	1268.6	1276.6	1280.8	1280.2	1267.3	1236.9	1258.1	1291.4	1422.7	1539.8	1300.4
37.5°	1314.2	1320.9	1339.4	1351.3	1339.4	1304.0	1313.9	1337.1	1457.8	1596.6	1330.1
40°	1358.6	1368.5	1395.6	1432.6	1428.0	1396.9	1399.3	1414.5	1519.6	1681.3	1388.3
42.5°	1404.9	1416.7	1464.1	1518.9	1529.9	1505.7	1512.0	1525.6	1607.6	1798.7	1488.2
45°	1464.3	1478.6	1536.8	1605.3	1648.3	1633.4	1651.2	1657.9	1725.3	1951.5	1619.9
47.5°	1541.1	1557.6	1629.4	1714.7	1775.6	1789.1	1820.3	1816.3	1871.1	2132.4	1790.5
50°	1670.4	1679.6	1747.5	1834.5	1918.2	1979.3	2013.0	2019.3	2052.0	2308.4	1981.3
52.5°	1824.2	1832.5	1881.4	1957.5	2062.3	2192.0	2275.3	2254.8	2262.7	2522.7	2204.5
55°	1997.2	2011.1	2042.1	2092.7	2228.6	2419.5	2586.8	2591.8	2503.8	2727.7	2418.5
57.5°	2131.1	2154.6	2207.8	2280.0	2452.2	2672.4	2897.3	2900.7	2788.3	2946.6	2654.6
60°	2063.6	2091.4	2213.1	2388.7	2745.5	3114.0	3268.4	3249.5	3065.0	3196.0	2942.7
62.5°	1772.6	1777.5	1954.5	2229.0	2835.9	3704.6	3820.7	3741.0	3434.5	3512.2	3235.3
65°	1147.2	1179.7	1319.9	1704.5	2539.2	4032.3	4788.4	4604.1	3952.4	3871.0	3480.4
67.5°	724.3	716.0	774.2	973.3	1746.5	3743.6	5614.2	5585.1	4629.6	4097.5	3421.9
69°	600.6	609.8	629.7	746.1	1201.8	3196.3	5711.7	5912.8	4958.0	4079.7	3209.3
70°	544.7	549.0	569.8	661.4	927.3	2677.1	5551.7	5903.8	5087.0	4004.9	3055.1
72.5°	432.3	431.9	467.6	550.3	693.2	1528.2	4558.6	5125.7	4942.8	3657.0	2524.3
75°	328.4	333.7	373.1	465.7	638.6	835.0	3181.1	3947.4	3947.7	2888.4	1575.2
77.5°	236.8	240.1	286.0	390.9	601.6	677.0	2118.9	2831.2	2661.6	1323.5	495.1
80°	155.1	157.1	192.2	309.6	542.4	638.6	1256.4	1733.0	1255.4	351.2	163.7
82.5°	85.0	94.9	117.4	200.4	435.2	590.0	763.6	877.1	471.0	156.4	85.4
85°	42.6	45.3	66.1	117.1	284.4	488.1	531.8	503.0	243.0	77.7	44.3
87.5°	12.5	15.9	27.4	45.3	115.4	254.3	295.9	265.6	93.6	28.1	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P650686
 CATALOG NUMBER: GALN-SA1C-840-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7
2.5°	1625.1	1619.2	1592.7	1568.9	1547.1	1523.9	1504.4	1487.2	1488.8	1489.2	1471.7
5°	1588.1	1574.5	1524.2	1477.3	1437.6	1387.3	1344.3	1316.6	1302.7	1284.1	1290.8
7.5°	1537.8	1511.7	1441.9	1363.8	1290.8	1225.6	1154.9	1106.3	1075.1	1045.0	1049.0
10°	1485.9	1443.9	1342.3	1239.2	1144.6	1040.4	950.2	872.7	815.2	793.7	779.5
12.5°	1432.6	1377.4	1248.5	1111.2	980.5	855.9	727.9	644.9	581.4	547.7	551.9
15°	1384.0	1316.9	1150.6	983.2	813.6	665.1	537.4	458.3	414.0	404.8	410.1
17.5°	1339.0	1251.1	1058.9	858.8	660.8	498.7	403.8	359.2	341.3	336.3	336.0
20°	1292.8	1195.2	956.0	726.0	514.9	386.6	331.4	310.5	307.2	309.2	309.6
22.5°	1245.8	1126.1	850.3	594.0	410.1	316.1	289.7	284.1	286.7	291.3	292.0
25°	1202.5	1065.2	748.4	478.2	327.4	277.8	264.9	264.9	270.9	277.8	278.1
27.5°	1166.7	1006.3	646.9	379.6	274.2	250.0	245.7	248.0	256.3	261.6	261.9
30°	1137.3	951.4	550.9	304.3	241.1	227.8	226.9	230.9	236.8	241.8	242.0
32.5°	1115.2	903.1	461.4	255.7	218.2	211.0	210.7	213.6	217.0	218.2	219.6
35°	1106.6	863.1	379.3	224.9	203.0	198.4	198.4	198.1	199.4	200.1	200.7
37.5°	1113.5	832.4	315.8	205.0	191.8	188.5	186.5	184.5	183.8	183.8	184.2
40°	1142.9	816.2	268.5	192.2	183.8	178.9	175.3	173.0	170.6	171.3	172.0
42.5°	1205.4	819.1	236.5	183.5	176.9	170.0	164.7	162.1	160.4	162.4	162.1
45°	1305.0	848.9	216.0	177.6	170.0	161.1	156.1	153.5	153.5	156.4	157.4
47.5°	1444.2	905.8	205.0	173.0	164.7	154.1	149.1	147.2	147.8	152.8	153.1
50°	1614.2	1004.7	203.0	170.6	162.1	149.1	143.6	141.5	143.2	148.5	149.1
52.5°	1801.7	1132.0	212.7	171.0	159.7	146.2	138.9	135.9	137.6	141.9	143.2
55°	2024.0	1291.4	237.4	172.3	156.4	144.5	135.6	129.0	130.9	134.0	134.3
57.5°	2250.9	1492.5	281.1	172.7	153.8	141.5	129.9	121.4	121.4	123.4	124.4
60°	2528.0	1711.4	338.7	173.0	154.1	137.3	122.4	112.8	111.4	112.4	112.8
62.5°	2803.1	1894.6	348.3	172.0	157.4	133.0	114.1	104.2	101.8	101.5	100.8
65°	2924.5	1860.5	285.4	167.4	161.1	130.3	107.5	95.9	91.9	90.6	90.6
67.5°	2726.7	1573.8	214.6	161.1	158.8	127.7	101.2	89.0	84.4	81.7	81.7
69°	2540.8	1399.9	192.8	156.8	152.8	123.4	97.2	85.4	79.7	76.7	75.8
70°	2397.4	1280.2	183.5	153.1	147.2	118.4	94.3	82.7	76.4	73.1	72.4
72.5°	1913.2	1004.4	160.7	139.3	125.3	99.6	83.7	74.4	68.5	64.8	63.8
75°	1102.6	544.4	133.3	121.0	100.8	77.4	70.8	64.8	60.2	56.9	55.9
77.5°	339.3	210.3	96.5	95.5	74.1	59.9	56.5	54.2	51.0	47.3	46.6
80°	142.9	107.1	65.5	64.5	49.3	41.6	40.7	40.4	39.0	36.1	35.1
82.5°	78.4	60.6	45.7	39.7	29.8	24.1	25.1	25.5	24.5	21.5	19.5
85°	38.3	33.1	22.1	17.8	13.5	8.6	8.2	9.9	9.3	6.6	7.3
87.5°	7.6	9.3	6.0	2.6	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)