

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: P526102

Luminaire Tested: **GALN-SA1A-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3646 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

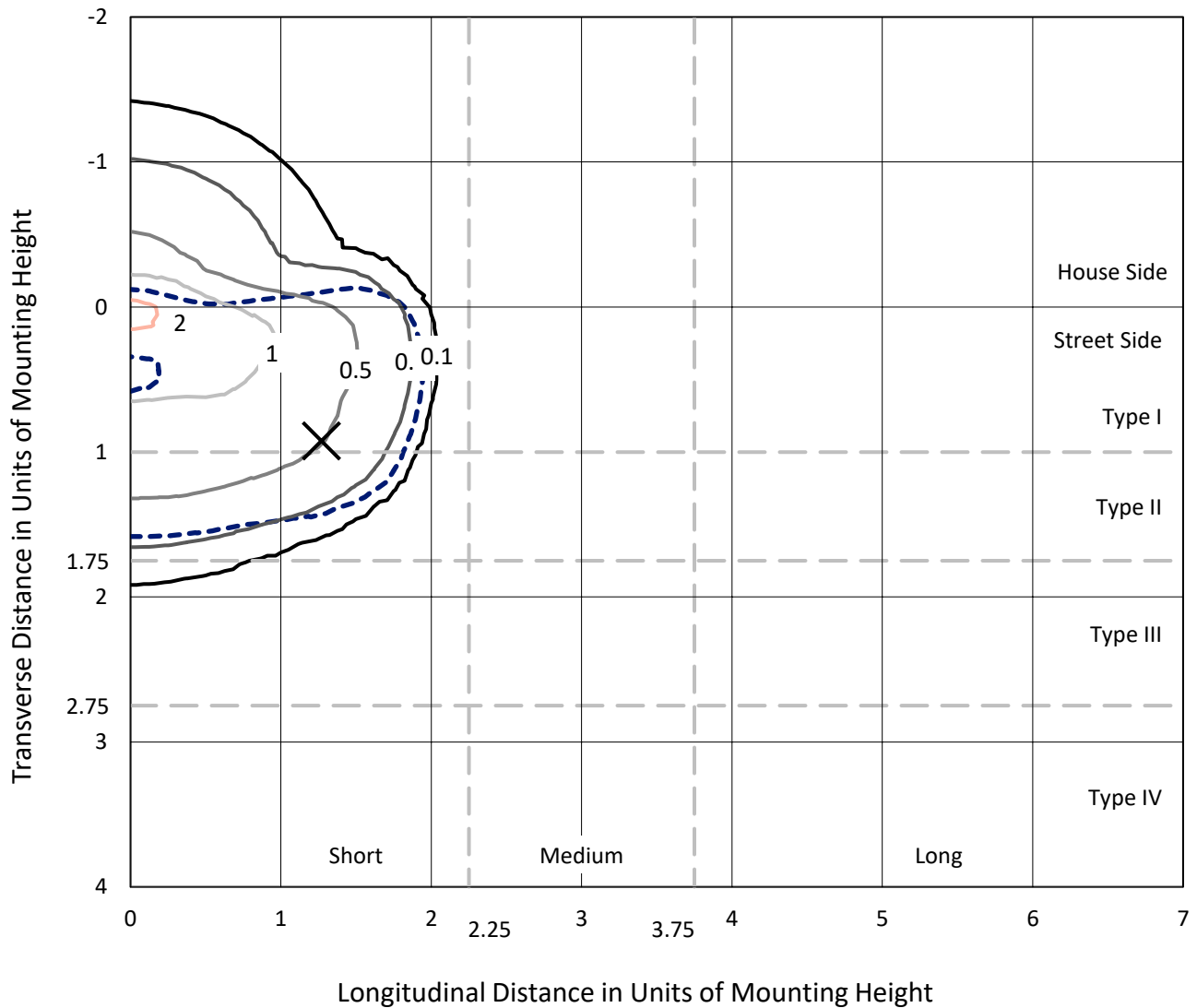
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526102
 CATALOG NUMBER: GALN-SA1A-735-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

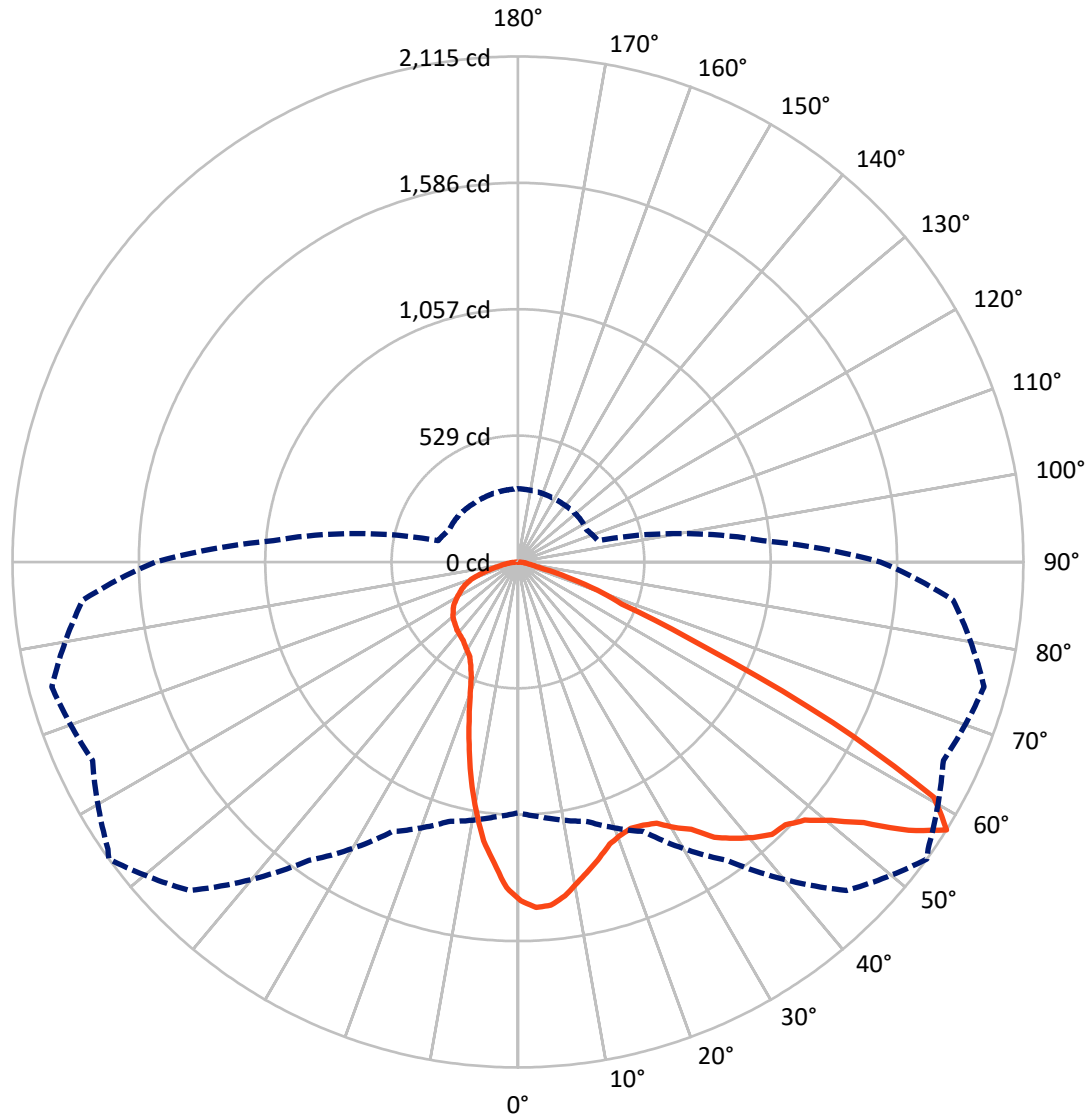
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

REPORT NUMBER: P526102
CATALOG NUMBER: GALN-SA1A-735-U-SL3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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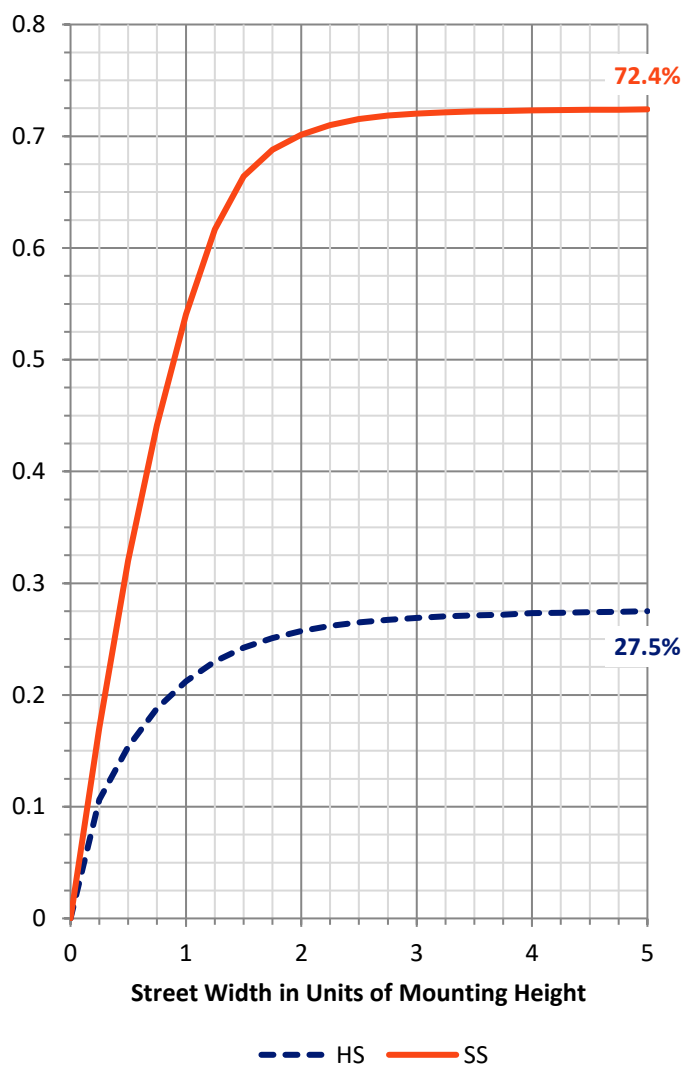
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1008.7	0.0	1008.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	2637.3	0.0	2637.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	3646.0	0.0	3646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	3.4
10°-20°	283.0	7.8
20°-30°	397.6	10.9
30°-40°	555.8	15.2
40°-50°	752.5	20.6
50°-60°	916.6	25.1
60°-70°	477.4	13.1
70°-80°	122.3	3.4
80°-90°	18.7	0.5
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°	3646.0	100.0
0°-180°	3646.0	100.0

Coefficient of Utilization

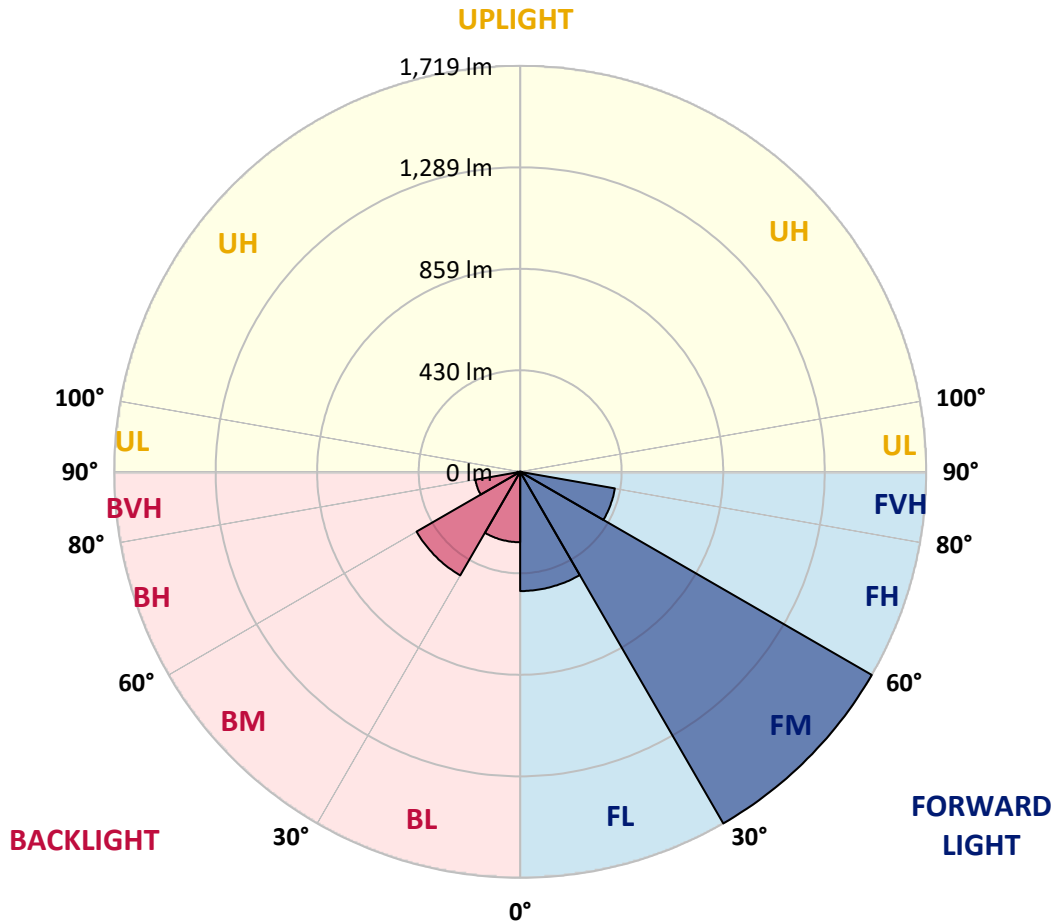


REPORT NUMBER: P526102
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	504.7	13.8			
FM (30°-60°)	1718.6	47.1			
FH (60°-80°)	407.0	11.2			G0/660
FVH (80°-90°)	7.0	0.2			G0/10
BL (0°-30°)	298.1	8.2	B1/500		
BM (30°-60°)	506.3	13.9	B1/1000		
BH (60°-80°)	192.7	5.3	B1/500		G1/500
BVH (80°-90°)	11.6	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-G1
 Type II Short





REPORT NUMBER: P526102

CATALOG NUMBER: GALN-SA1A-735-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2
2.5°	1457.5	1451.8	1452.8	1460.3	1450.9	1447.2	1447.2	1428.9	1430.3	1417.6	1414.3
5°	1423.7	1410.6	1419.5	1430.7	1432.6	1436.4	1442.5	1437.8	1424.7	1411.1	1389.0
7.5°	1335.6	1347.3	1350.6	1358.6	1375.4	1390.9	1410.1	1397.0	1396.5	1382.9	1369.8
10°	1258.3	1251.3	1269.1	1280.8	1308.9	1334.7	1364.2	1362.8	1369.8	1354.4	1331.9
12.5°	1181.4	1175.8	1184.2	1211.0	1250.3	1287.8	1323.0	1309.8	1347.3	1344.5	1296.3
15°	1099.9	1104.1	1116.3	1141.1	1192.7	1237.7	1282.2	1282.7	1315.9	1327.2	1262.5
17.5°	1042.7	1038.0	1053.5	1090.5	1136.4	1190.3	1241.0	1251.3	1302.3	1308.9	1252.2
20°	1000.1	1006.6	1026.8	1045.5	1098.5	1163.6	1220.8	1224.5	1299.5	1317.3	1235.8
22.5°	989.8	986.0	992.6	1023.0	1066.6	1137.4	1210.0	1224.1	1299.1	1314.5	1204.9
25°	979.0	991.2	990.7	1021.2	1053.0	1116.3	1218.9	1234.4	1323.9	1329.1	1209.1
27.5°	1003.4	1001.9	1015.1	1017.4	1056.8	1121.9	1237.7	1249.4	1365.1	1360.9	1212.4
30°	1027.7	1020.7	1028.7	1056.3	1074.6	1154.3	1289.2	1288.3	1418.6	1415.8	1222.7
32.5°	1057.7	1054.4	1059.6	1084.0	1114.9	1197.4	1332.8	1360.5	1472.9	1490.7	1258.3
35°	1063.3	1076.9	1089.1	1121.9	1166.0	1267.2	1414.8	1437.8	1535.7	1591.5	1326.2
37.5°	1099.0	1104.1	1132.7	1190.8	1231.1	1360.5	1466.8	1481.4	1592.9	1656.2	1397.9
40°	1136.9	1143.0	1186.1	1247.0	1302.3	1421.4	1515.6	1520.3	1611.2	1705.8	1444.8
42.5°	1188.5	1194.1	1236.7	1313.1	1387.2	1473.4	1558.7	1563.8	1609.8	1763.0	1519.3
45°	1241.9	1255.5	1305.6	1392.3	1458.9	1534.3	1568.5	1589.6	1622.9	1814.1	1579.8
47.5°	1316.9	1329.5	1370.8	1455.6	1533.4	1587.7	1614.0	1634.6	1654.3	1858.6	1618.7
50°	1396.5	1398.9	1449.0	1525.9	1583.1	1648.2	1698.8	1705.8	1695.5	1910.2	1684.8
52.5°	1455.1	1462.6	1501.5	1576.5	1661.8	1741.9	1811.3	1818.8	1798.6	1929.4	1707.2
55°	1358.1	1353.9	1417.2	1517.0	1714.7	1881.6	1982.3	1988.0	1873.6	1988.9	1780.8
57.5°	1049.7	1069.9	1123.8	1244.2	1523.5	1943.4	2114.5	2094.3	1963.6	2018.9	1827.7
60°	762.9	758.3	794.3	874.9	1148.2	1674.9	1999.2	2019.8	1890.0	1819.7	1507.1
62.5°	621.4	614.9	617.7	620.5	740.9	1111.6	1480.0	1479.5	1455.6	1308.0	1016.5
65°	496.8	512.2	513.6	534.7	550.2	664.1	857.6	903.5	786.8	645.3	468.2
67.5°	374.4	368.8	387.6	462.5	491.6	479.4	468.2	473.3	336.5	242.8	228.7
70°	220.7	218.4	240.9	322.4	404.9	381.0	352.9	353.4	231.0	169.6	188.9
72.5°	120.9	120.4	125.1	163.6	230.1	239.0	211.8	218.4	137.8	137.3	147.6
75°	67.5	66.1	64.7	72.2	82.9	87.6	89.5	90.4	94.7	105.9	110.1
77.5°	24.8	23.9	23.9	27.6	35.1	44.1	55.8	56.7	67.0	76.9	81.1
80°	8.4	9.4	12.7	17.3	23.4	31.4	38.0	38.9	47.3	53.9	55.3
82.5°	5.2	5.6	8.4	12.2	16.9	22.0	28.1	28.6	35.1	39.4	41.2
85°	2.3	2.8	4.7	7.5	10.8	14.5	15.0	15.0	14.5	15.0	14.1
87.5°	0.0	0.0	0.9	0.9	0.9	1.4	1.9	1.4	2.3	2.8	2.8
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: P526102

CATALOG NUMBER: GALN-SA1A-735-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2
2.5°	1404.5	1399.4	1383.4	1369.4	1365.1	1346.4	1318.7	1322.0	1301.9	1311.2	1301.4
5°	1385.3	1368.0	1327.2	1309.8	1264.4	1243.8	1229.7	1194.6	1178.2	1174.9	1160.8
7.5°	1336.1	1325.3	1274.2	1227.4	1179.1	1137.9	1084.9	1048.8	1023.0	1016.0	995.4
10°	1297.2	1273.3	1202.5	1131.3	1062.4	990.7	921.8	867.9	841.7	811.2	800.9
12.5°	1258.8	1222.7	1127.1	1035.7	946.6	856.2	772.8	707.2	650.0	636.4	631.7
15°	1234.9	1172.1	1059.6	949.5	822.9	704.8	621.4	578.3	543.2	528.6	538.9
17.5°	1203.5	1130.4	994.9	848.2	709.0	600.3	530.5	503.8	491.1	492.5	488.3
20°	1164.1	1091.0	910.1	756.4	607.4	520.7	480.8	471.0	472.9	476.1	474.7
22.5°	1136.0	1043.2	848.7	662.7	524.9	476.6	460.2	453.2	459.3	462.1	459.7
25°	1114.4	1002.4	774.2	579.7	477.1	451.8	444.3	443.8	453.2	456.9	454.6
27.5°	1094.7	964.5	700.1	516.4	445.2	432.6	430.2	435.8	441.9	445.7	449.0
30°	1083.0	935.4	630.8	463.5	429.3	423.2	419.0	424.1	427.4	431.1	429.3
32.5°	1094.3	914.8	563.8	433.5	416.1	410.1	415.7	412.4	418.0	421.3	416.1
35°	1129.4	896.5	516.0	417.6	401.2	403.5	404.4	403.0	405.4	402.6	408.7
37.5°	1164.1	889.9	471.9	404.0	394.1	394.1	393.2	390.4	395.1	394.1	396.9
40°	1208.1	894.2	434.4	389.4	387.6	386.6	382.9	382.4	380.5	381.0	381.9
42.5°	1246.6	903.5	412.9	380.1	381.5	383.3	376.3	370.7	373.0	368.3	368.3
45°	1287.3	912.0	393.7	373.5	372.1	371.6	366.0	362.7	360.9	361.3	365.5
47.5°	1351.5	924.2	379.1	364.6	365.5	358.5	357.1	352.9	354.8	357.6	358.0
50°	1397.0	949.9	367.9	354.3	357.6	352.9	344.4	342.6	342.6	347.3	346.3
52.5°	1428.9	986.0	357.1	343.0	344.4	340.7	337.9	333.7	330.9	337.4	340.7
55°	1526.4	1046.0	354.3	333.7	333.2	329.5	324.3	320.1	318.7	319.6	326.2
57.5°	1517.0	1027.3	345.4	317.3	316.3	311.2	306.0	304.6	304.1	305.1	307.0
60°	1231.6	758.7	308.4	298.5	297.1	296.2	291.0	285.4	282.6	285.4	283.1
62.5°	815.0	508.0	271.8	276.0	277.0	274.6	266.2	260.6	261.5	264.8	259.6
65°	400.2	298.5	246.5	257.8	258.7	252.1	244.2	237.6	234.3	237.1	234.8
67.5°	228.7	228.2	225.9	237.6	237.1	230.6	217.9	212.3	206.7	207.6	206.2
70°	194.0	197.8	202.5	209.5	209.0	201.5	186.5	182.3	174.3	173.4	171.1
72.5°	152.8	159.3	169.6	174.8	170.6	161.2	151.4	144.3	137.3	133.1	134.5
75°	113.4	122.8	128.4	131.7	125.1	120.0	112.0	103.6	95.1	91.4	90.0
77.5°	82.5	85.3	90.4	92.8	88.6	83.4	78.7	70.3	62.3	57.2	55.8
80°	57.6	59.5	63.3	63.3	63.3	60.9	54.8	46.4	41.2	36.6	35.6
82.5°	40.3	42.2	45.9	44.1	43.6	40.8	37.0	30.5	24.8	21.6	20.6
85°	14.1	15.5	18.7	22.5	23.9	23.4	21.1	16.9	13.1	10.8	9.8
87.5°	3.3	3.3	3.7	3.3	3.3	3.7	3.3	3.3	3.3	2.3	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)