

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: P647220

Luminaire Tested: **GALN-SA1D-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5069.9 lumens
Efficiency: N/A
Efficacy: 78.0 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

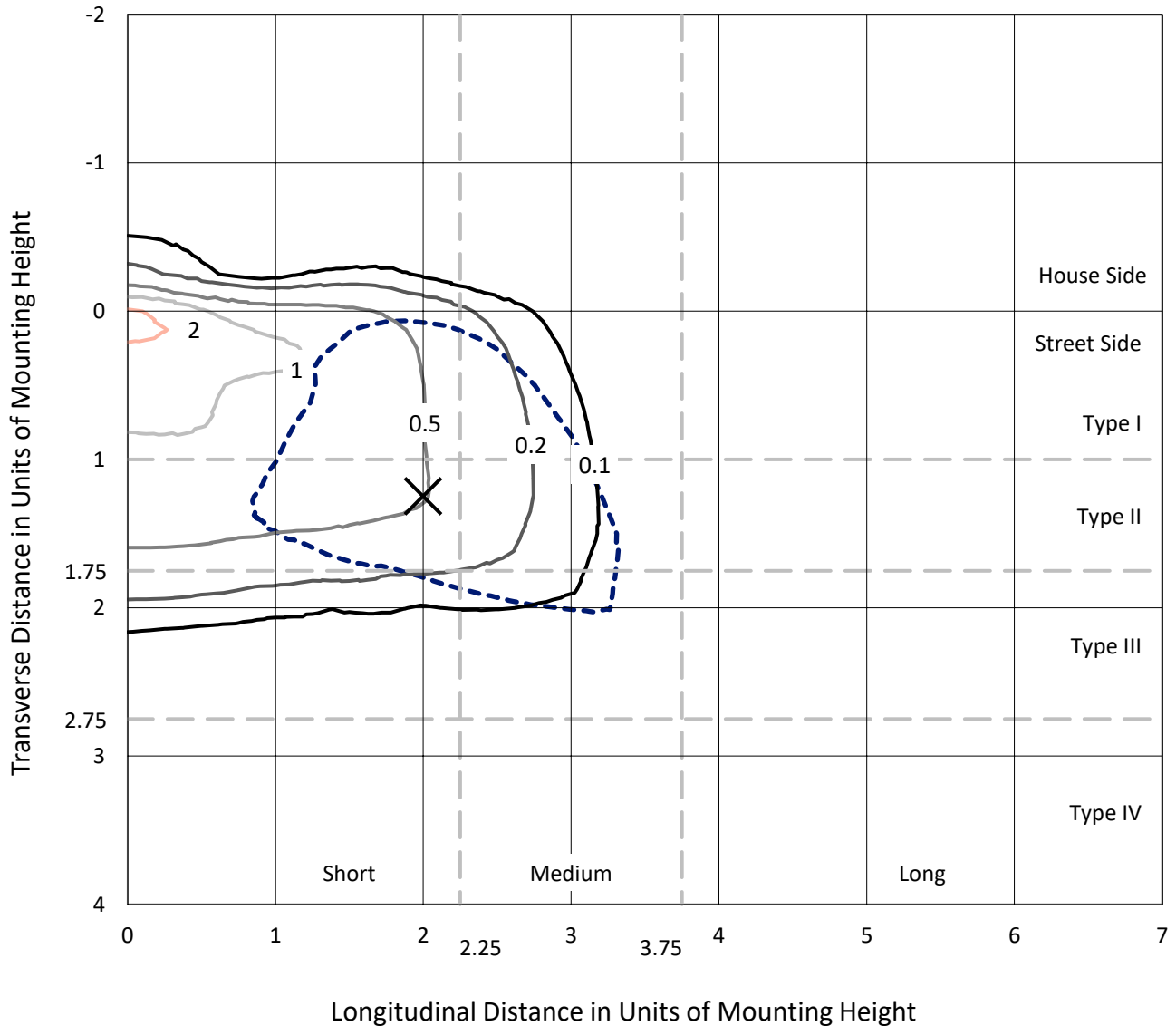
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647220
 CATALOG NUMBER: GALN-SA1D-835-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

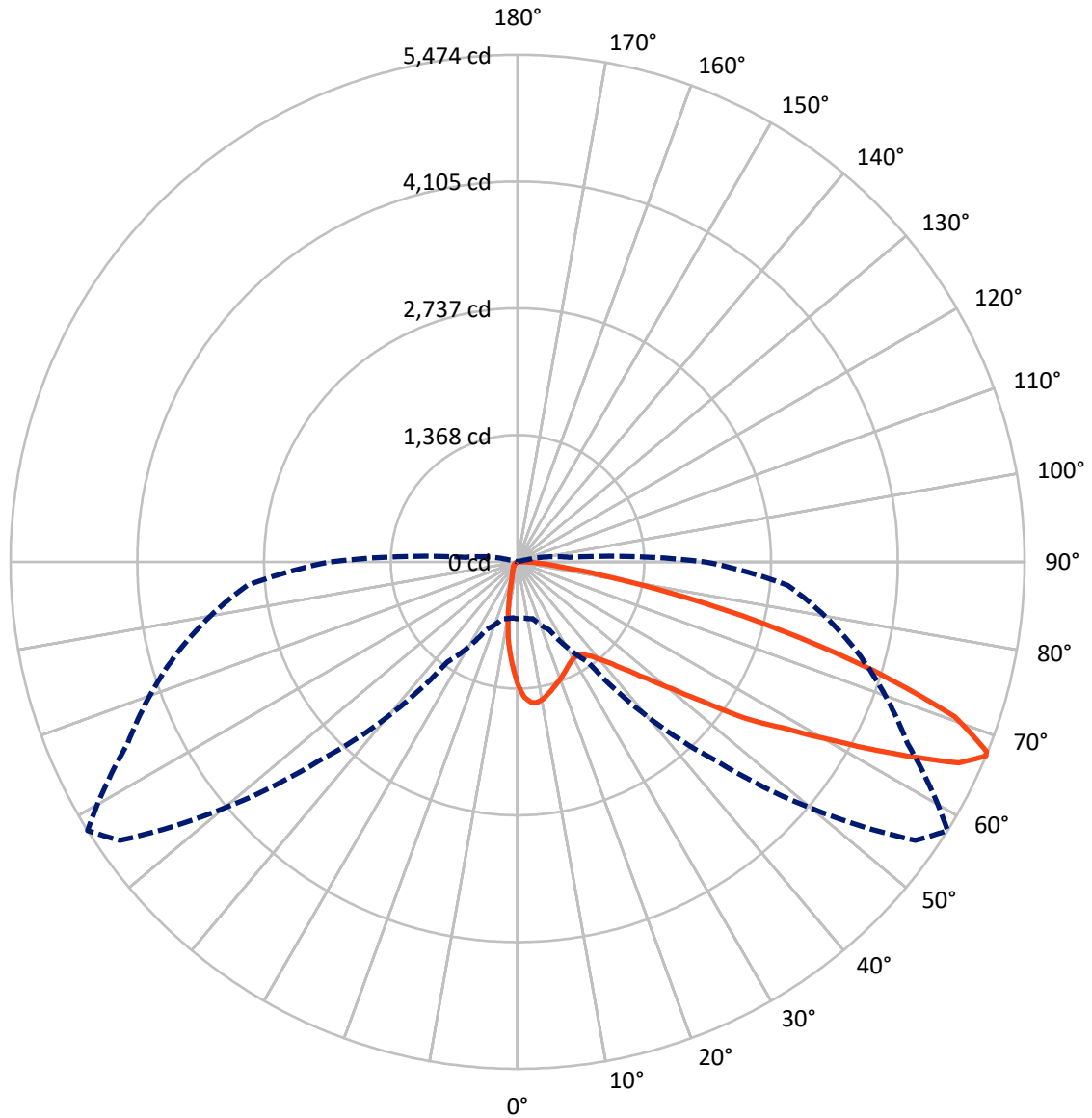
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - N/A

REPORT NUMBER: P647220
CATALOG NUMBER: GALN-SA1D-835-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P647220
 CATALOG NUMBER: GALN-SA1D-835-U-SL3-HSS

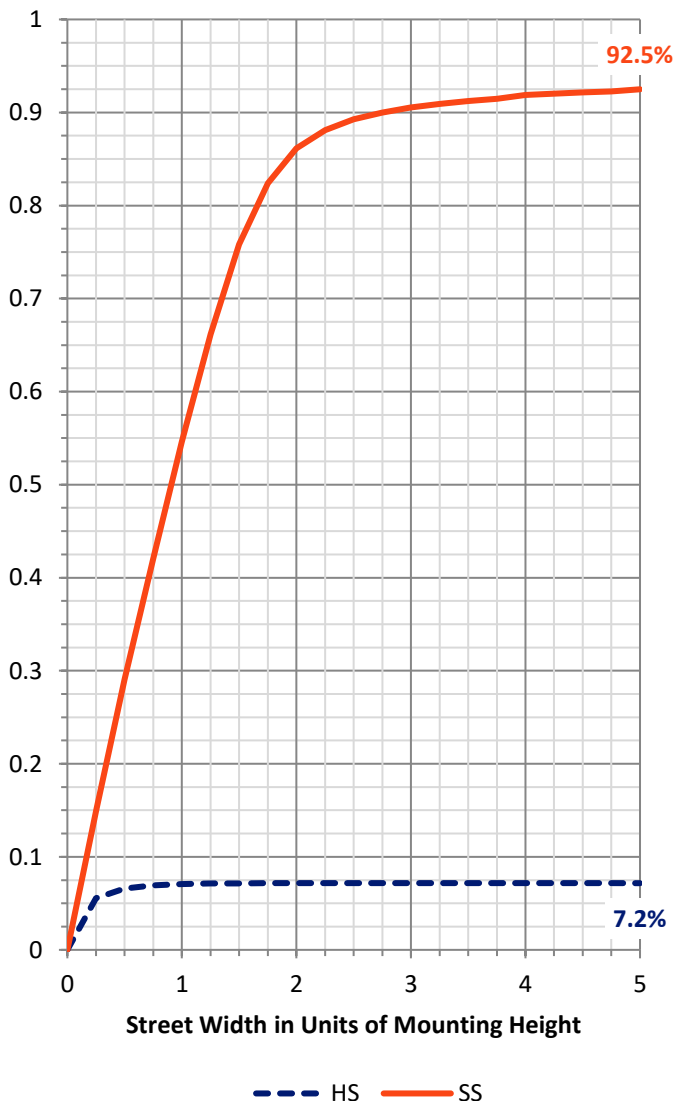
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	365.9	0.0	365.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4704.1	0.0	4704.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	5069.9	0.0	5069.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	2.2
10°-20°	235.5	4.6
20°-30°	319.2	6.3
30°-40°	442.7	8.7
40°-50°	706.0	13.9
50°-60°	1220.4	24.1
60°-70°	1394.1	27.5
70°-80°	581.2	11.5
80°-90°	61.6	1.2
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°	5069.9	100.0
0°-180°	5069.9	100.0

Coefficient of Utilization



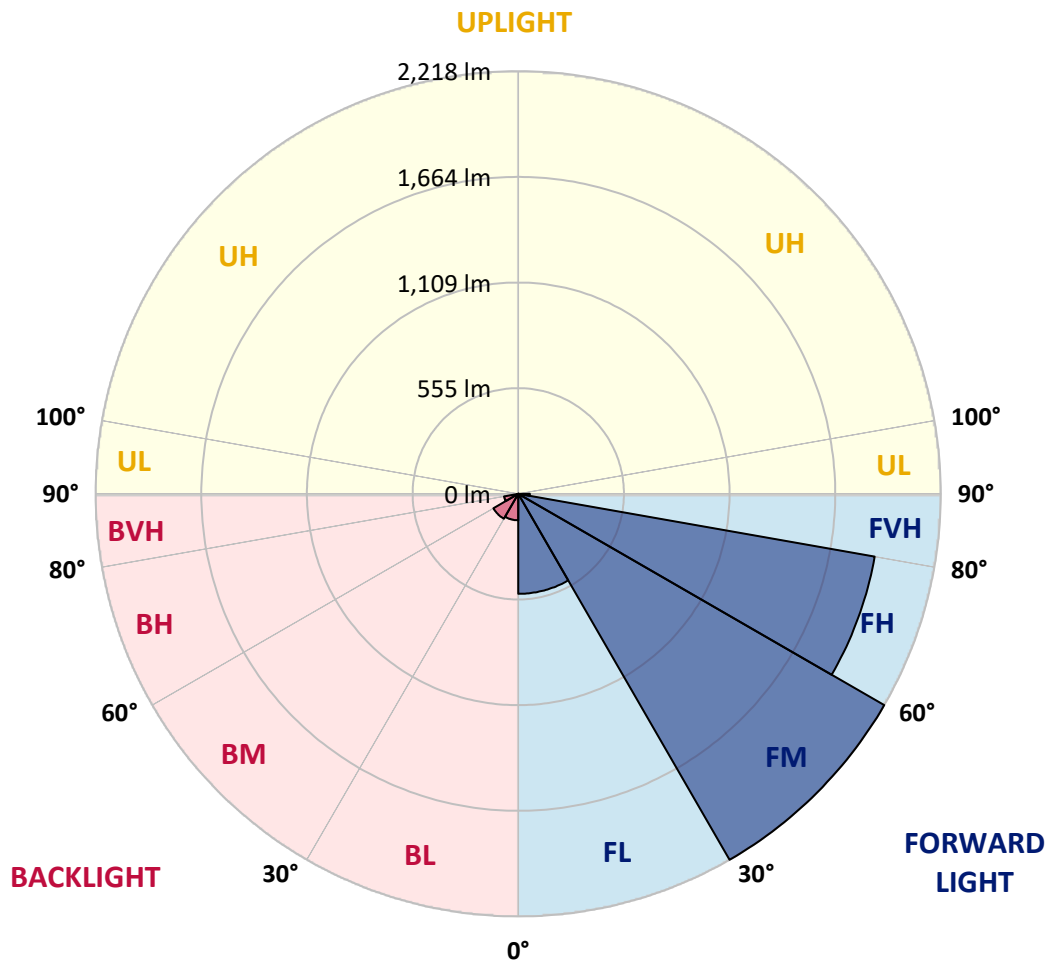
REPORT NUMBER: P647220
 CATALOG NUMBER: GALN-SA1D-835-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.9	10.4			
FM (30°-60°)	2218.3	43.8			
FH (60°-80°)	1899.7	37.5			G2/5000
FVH (80°-90°)	61.2	1.2			G1/100
BL (0°-30°)	138.9	2.7	B1/500		
BM (30°-60°)	150.9	3.0	B0/220		
BH (60°-80°)	75.6	1.5	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			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





REPORT NUMBER: P647220

CATALOG NUMBER: GALN-SA1D-835-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0
2.5°	1559.8	1562.2	1553.4	1546.3	1527.9	1508.3	1482.2	1468.4	1444.6	1403.6	1358.2
5°	1596.4	1599.4	1598.1	1596.4	1589.3	1570.3	1537.1	1524.9	1490.0	1423.3	1341.3
7.5°	1515.1	1526.2	1527.6	1540.9	1553.4	1555.0	1542.5	1533.3	1501.2	1422.9	1311.1
10°	1407.4	1414.8	1425.6	1440.9	1471.0	1496.1	1508.3	1507.0	1488.3	1412.5	1275.9
12.5°	1298.6	1302.7	1319.3	1345.4	1382.3	1425.0	1457.5	1463.9	1464.3	1399.9	1246.4
15°	1205.1	1203.4	1216.2	1246.4	1298.3	1351.8	1410.0	1420.2	1436.5	1387.7	1219.0
17.5°	1125.1	1133.9	1136.0	1169.2	1216.9	1286.4	1360.6	1378.5	1411.0	1377.2	1196.3
20°	1075.7	1080.4	1084.8	1103.5	1146.5	1219.7	1314.2	1338.9	1387.3	1367.7	1170.9
22.5°	1061.1	1064.2	1060.4	1066.2	1096.7	1161.7	1263.7	1296.6	1364.7	1358.9	1150.2
25°	1072.2	1075.3	1066.5	1059.7	1070.3	1114.6	1214.9	1254.9	1346.4	1357.2	1134.6
27.5°	1099.4	1105.1	1092.9	1080.8	1074.7	1089.2	1176.6	1223.0	1333.8	1365.3	1127.5
30°	1141.7	1145.1	1136.0	1121.1	1107.2	1092.6	1156.6	1201.0	1330.5	1384.3	1126.8
32.5°	1187.8	1194.9	1189.8	1180.0	1162.1	1127.5	1162.4	1201.7	1338.5	1411.7	1135.3
35°	1244.7	1252.9	1257.6	1255.5	1232.5	1189.5	1199.0	1232.2	1360.2	1462.3	1158.4
37.5°	1300.6	1307.8	1334.5	1343.6	1323.3	1282.6	1270.1	1292.2	1408.0	1528.3	1200.0
40°	1364.7	1374.2	1411.7	1446.7	1436.8	1394.1	1371.1	1389.4	1481.2	1627.9	1279.0
42.5°	1426.0	1442.9	1500.1	1561.9	1571.0	1523.2	1508.0	1514.1	1589.6	1771.2	1389.0
45°	1513.1	1529.0	1602.8	1686.5	1729.6	1692.3	1676.7	1675.7	1738.3	1972.8	1567.6
47.5°	1638.7	1653.0	1740.1	1822.7	1899.2	1904.3	1874.9	1885.1	1925.4	2208.6	1786.5
50°	1792.9	1826.4	1883.7	1969.7	2072.1	2154.7	2163.9	2150.4	2184.9	2481.6	2049.3
52.5°	2016.9	2029.7	2082.2	2153.0	2273.0	2413.2	2522.0	2503.3	2492.5	2741.8	2314.9
55°	2183.9	2201.2	2282.8	2380.0	2555.9	2740.8	2976.7	2983.1	2846.2	2991.8	2574.8
57.5°	2133.4	2159.8	2283.5	2479.0	2865.5	3203.6	3379.1	3383.5	3173.5	3234.8	2868.2
60°	1874.2	1886.7	2063.9	2324.8	2891.9	3705.0	3950.0	3914.4	3506.5	3506.5	3127.4
62.5°	1329.1	1348.7	1492.4	1876.2	2611.8	3879.1	4633.6	4560.1	3965.3	3766.4	3281.9
65°	849.3	830.4	925.6	1184.4	1945.7	3622.0	5229.0	5233.3	4396.9	3870.4	3197.5
67°	615.3	607.8	635.2	809.7	1319.3	3044.7	5241.5	5473.6	4644.8	3804.7	2927.9
67.5°	562.7	568.5	588.5	730.5	1198.6	2770.6	5184.6	5459.3	4700.7	3765.0	2830.3
70°	426.6	416.7	438.4	516.6	718.6	1747.8	4459.9	5007.1	4631.3	3371.7	2261.5
72.5°	313.7	312.7	342.9	422.5	553.3	931.0	3348.0	4014.7	3783.6	2567.4	1424.0
75°	211.7	221.2	269.4	353.1	501.4	603.7	2282.4	2912.6	2626.7	1457.8	582.1
77.5°	120.6	121.3	173.4	283.6	450.2	485.9	1352.5	1855.6	1390.4	484.8	172.8
80°	52.1	57.2	86.1	206.0	373.3	430.3	775.5	1019.8	562.4	102.7	55.9
82.5°	19.3	22.7	38.0	126.7	272.4	354.4	468.5	486.9	190.7	36.3	34.9
85°	0.0	0.7	13.9	59.3	142.0	158.2	313.0	288.6	84.3	17.3	22.7
87.5°	0.0	0.0	0.0	6.1	18.6	59.0	97.2	108.4	20.4	6.1	5.4
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: P647220

CATALOG NUMBER: GALN-SA1D-835-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0
2.5°	1333.8	1311.8	1256.6	1201.4	1160.3	1126.1	1074.7	1046.6	1031.6	1009.6	1010.9
5°	1300.2	1255.5	1158.4	1057.7	976.4	897.2	802.3	764.0	731.8	713.5	701.3
7.5°	1250.5	1184.4	1040.5	906.2	781.3	642.7	538.7	469.3	422.5	405.2	388.6
10°	1196.0	1108.2	920.8	734.8	561.4	418.4	330.3	266.6	243.9	222.9	225.0
12.5°	1145.5	1038.7	811.0	580.0	393.3	266.0	207.3	181.3	173.8	171.4	171.4
15°	1104.1	972.3	693.2	436.1	269.7	191.1	166.0	158.9	156.2	155.5	155.5
17.5°	1060.1	909.3	586.8	322.2	196.1	159.9	151.4	146.7	145.7	145.0	145.0
20°	1020.8	846.0	485.9	239.8	158.6	144.0	138.6	135.5	134.5	133.8	134.1
22.5°	983.5	789.7	391.0	181.3	139.6	131.1	125.7	122.6	120.6	118.9	119.3
25°	950.3	735.6	314.4	148.4	125.7	118.2	112.8	108.4	104.0	101.9	101.6
27.5°	926.9	688.1	244.9	127.1	113.1	105.0	98.3	92.9	87.1	84.0	83.3
30°	907.7	639.9	193.8	112.1	100.6	92.9	84.3	76.6	70.5	67.4	66.1
32.5°	895.1	594.2	152.8	99.9	90.1	80.6	71.2	63.3	56.6	53.6	52.9
35°	893.1	555.9	125.0	89.8	80.6	70.5	60.7	52.1	46.4	43.4	42.7
37.5°	907.7	526.5	104.7	81.7	72.8	61.6	50.8	43.1	38.0	35.5	35.2
40°	946.6	507.9	90.8	74.9	65.7	53.6	43.4	36.6	31.5	29.1	29.1
42.5°	1020.8	508.6	81.7	68.4	58.6	45.7	37.0	30.5	26.1	24.0	23.4
45°	1136.7	531.6	73.8	62.0	51.8	39.6	31.5	25.1	20.7	18.9	18.9
47.5°	1291.8	577.3	67.1	55.6	45.7	33.9	26.8	20.4	16.6	14.9	14.9
50°	1494.7	650.8	61.3	50.1	40.6	29.1	21.7	16.6	12.8	11.5	11.2
52.5°	1706.9	741.6	54.6	45.4	34.9	24.7	17.6	12.8	9.8	8.8	8.5
55°	1941.0	830.4	48.1	40.6	28.4	20.7	13.9	10.2	7.1	6.1	6.1
57.5°	2177.1	917.4	40.3	33.9	22.4	15.3	10.8	7.4	4.8	3.8	3.8
60°	2377.0	945.6	34.2	27.4	16.9	10.8	7.8	4.8	2.7	1.7	1.7
62.5°	2404.4	850.7	28.8	21.0	12.2	7.4	4.1	2.7	1.0	0.7	0.7
65°	2255.4	691.2	24.0	15.9	8.1	3.8	1.7	1.0	0.3	0.0	0.0
67°	2020.9	560.4	19.7	11.8	5.8	2.3	1.0	0.3	0.0	0.0	0.0
67.5°	1960.9	534.2	18.9	11.2	5.1	2.0	0.7	0.3	0.0	0.0	0.0
70°	1538.8	400.1	13.5	6.8	3.1	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	956.4	226.3	9.8	4.1	2.0	0.7	0.0	0.0	0.0	0.0	0.0
75°	361.5	79.2	6.8	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	112.5	30.1	4.1	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	38.0	11.5	2.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.4	4.8	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.6	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.7	0.3	0.0	0.0	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)