

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: P458522

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458522
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-SA1A-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA 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: 4272 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

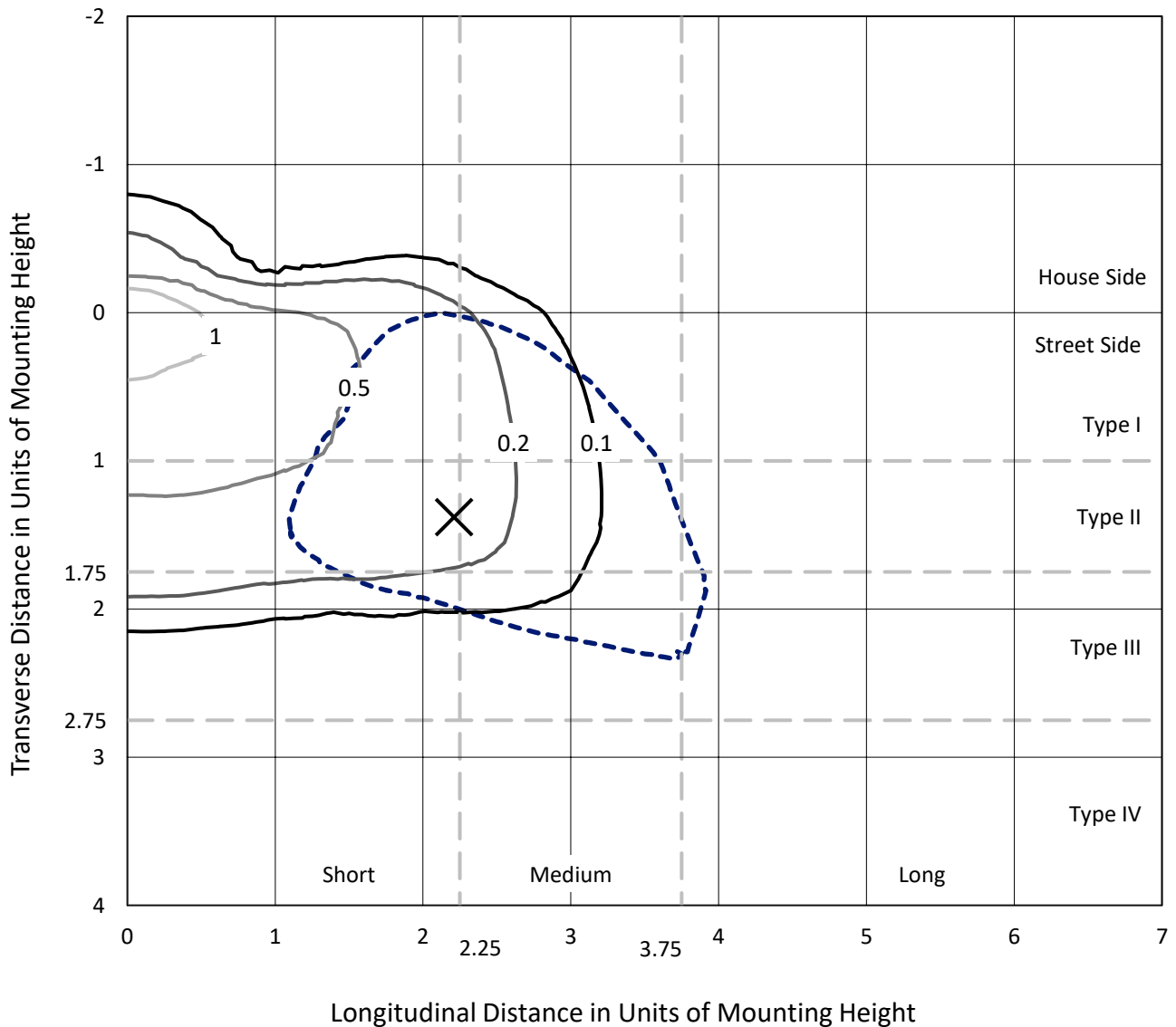
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458522
 CATALOG NUMBER: GALN-SA1A-735-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

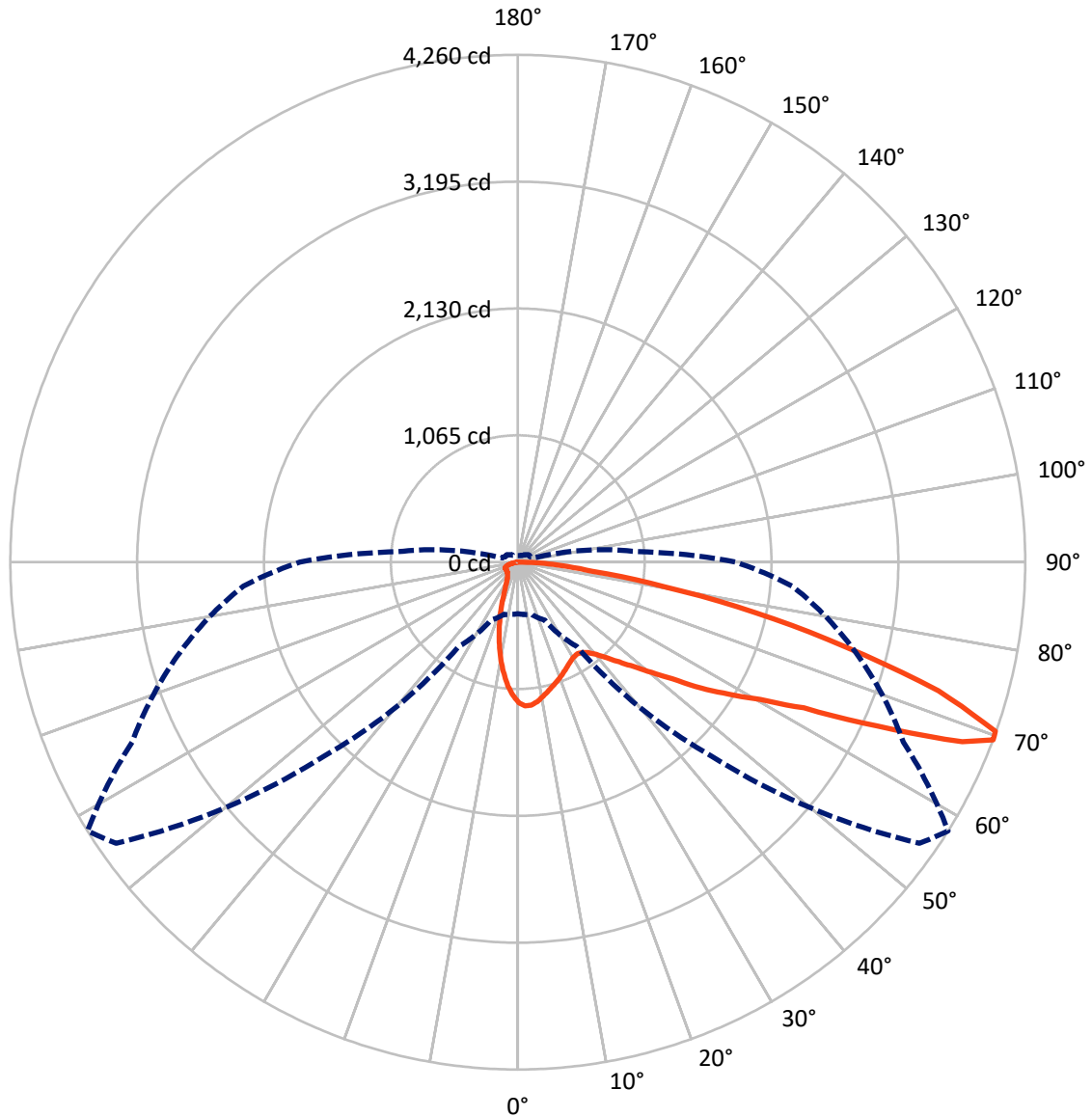
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

REPORT NUMBER: P458522
CATALOG NUMBER: GALN-SA1A-735-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458522

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	626.1	0.0	626.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3645.9	0.0	3645.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	4272.0	0.0	4272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	2.3
10°-20°	220.1	5.2
20°-30°	284.4	6.7
30°-40°	369.4	8.6
40°-50°	537.1	12.6
50°-60°	857.0	20.1
60°-70°	1144.9	26.8
70°-80°	660.0	15.4
80°-90°	98.8	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°	4272.0	100.0
0°-180°	4272.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458522

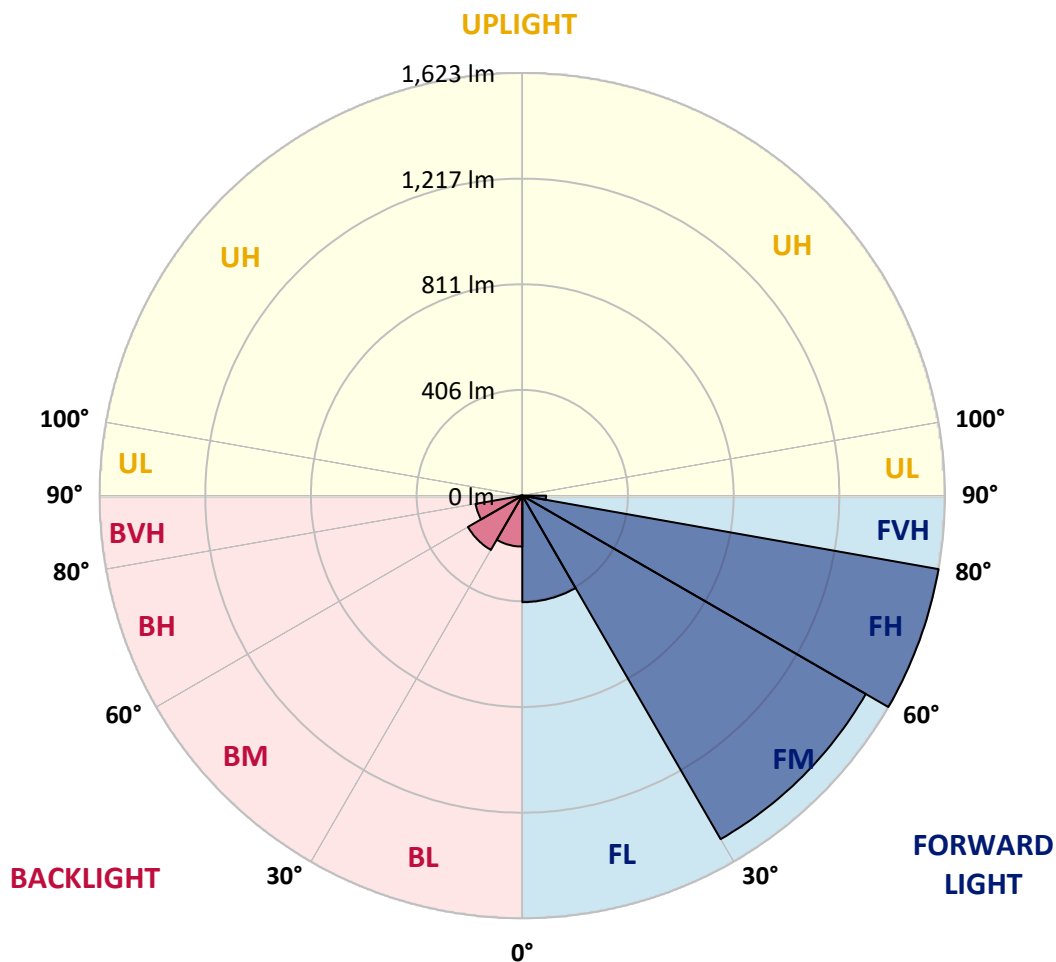
CATALOG NUMBER: GALN-SA1A-735-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	409.1	9.6			
FM	(30°-60°)	1522.7	35.6			
FH	(60°-80°)	1622.8	38.0			G1/1800
FVH	(80°-90°)	91.3	2.1			G1/100
BL	(0°-30°)	195.7	4.6	B1/500		
BM	(30°-60°)	240.8	5.6	B1/1000		
BH	(60°-80°)	182.1	4.3	B1/500		G1/500
BVH	(80°-90°)	7.6	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-G1

Type III Short





REPORT NUMBER: P458522

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5
2.5°	1224.4	1227.7	1226.8	1225.6	1223.7	1218.4	1209.8	1208.4	1202.9	1191.3	1176.7
5°	1205.5	1208.4	1208.6	1210.3	1212.7	1211.7	1205.5	1204.8	1196.7	1181.0	1156.7
7.5°	1141.0	1144.8	1153.1	1162.4	1170.8	1178.6	1180.5	1181.7	1176.7	1158.6	1126.2
10°	1068.3	1072.1	1075.9	1089.8	1110.2	1129.8	1146.0	1148.1	1149.3	1132.6	1093.1
12.5°	987.8	995.6	1003.7	1024.2	1051.6	1082.4	1111.0	1115.5	1123.6	1111.0	1064.5
15°	919.4	927.5	939.2	957.5	990.6	1035.0	1075.2	1082.6	1098.6	1092.1	1037.8
17.5°	872.0	874.9	883.0	903.9	939.7	986.4	1040.2	1055.0	1080.5	1078.8	1014.9
20°	834.6	838.2	843.2	856.0	893.2	942.5	1007.6	1026.6	1061.2	1066.9	992.3
22.5°	818.9	821.5	820.8	827.7	852.9	902.5	974.4	997.1	1044.0	1058.8	971.3
25°	819.8	822.2	818.6	817.0	832.0	867.2	939.9	968.7	1030.2	1053.3	952.3
27.5°	835.8	837.5	830.8	824.1	825.3	845.3	911.3	943.2	1018.5	1055.7	936.3
30°	857.2	860.3	856.0	847.9	839.1	840.1	893.0	924.4	1013.0	1064.0	928.7
32.5°	884.9	887.7	885.8	879.4	867.9	855.3	888.4	917.5	1013.5	1080.9	927.0
35°	913.9	919.6	922.7	922.3	913.0	891.1	906.3	930.4	1025.0	1109.3	936.8
37.5°	946.8	951.6	964.9	973.5	964.9	939.4	946.6	963.2	1050.2	1150.3	958.2
40°	978.7	985.9	1005.4	1032.1	1028.8	1006.4	1008.0	1019.0	1094.8	1211.3	1000.2
42.5°	1012.1	1020.7	1054.7	1094.3	1102.1	1084.8	1089.3	1099.0	1158.1	1295.8	1072.1
45°	1055.0	1065.2	1107.1	1156.5	1187.4	1176.7	1189.6	1194.3	1243.0	1405.9	1167.0
47.5°	1110.2	1122.2	1173.9	1235.3	1279.2	1288.9	1311.3	1308.5	1348.0	1536.2	1289.9
50°	1203.4	1210.1	1258.9	1321.6	1381.9	1425.9	1450.2	1454.8	1478.3	1663.0	1427.4
52.5°	1314.2	1320.1	1355.4	1410.2	1485.7	1579.1	1639.2	1624.4	1630.1	1817.4	1588.2
55°	1438.8	1448.8	1471.2	1507.6	1605.6	1743.0	1863.6	1867.2	1803.8	1965.1	1742.3
57.5°	1535.3	1552.2	1590.6	1642.5	1766.6	1925.3	2087.3	2089.7	2008.7	2122.8	1912.4
60°	1486.7	1506.7	1594.4	1720.9	1978.0	2243.4	2354.6	2341.0	2208.1	2302.5	2120.0
62.5°	1277.0	1280.6	1408.1	1605.8	2043.0	2668.9	2752.5	2695.1	2474.2	2530.2	2330.8
65°	826.5	849.8	950.9	1227.9	1829.3	2905.0	3449.6	3316.9	2847.3	2788.7	2507.3
67.5°	521.8	515.8	557.7	701.2	1258.2	2697.0	4044.5	4023.6	3335.3	2951.9	2465.2
69°	432.7	439.3	453.6	537.5	865.8	2302.7	4114.8	4259.7	3571.8	2939.1	2312.0
70°	392.4	395.5	410.5	476.5	668.1	1928.6	3999.5	4253.2	3664.8	2885.2	2201.0
72.5°	311.4	311.2	336.9	396.4	499.4	1101.0	3284.0	3692.6	3560.9	2634.6	1818.6
75°	236.6	240.4	268.7	335.5	460.1	601.6	2291.7	2843.8	2844.0	2080.9	1134.8
77.5°	170.6	173.0	206.1	281.6	433.4	487.7	1526.5	2039.7	1917.4	953.5	356.7
80°	111.7	113.2	138.4	223.0	390.7	460.1	905.1	1248.4	904.4	253.0	117.9
82.5°	61.2	68.4	84.6	144.4	313.5	425.0	550.1	631.8	339.3	112.7	61.5
85°	30.7	32.6	47.7	84.3	204.9	351.7	383.1	362.4	175.1	56.0	31.9
87.5°	9.1	11.4	19.8	32.6	83.1	183.2	213.2	191.3	67.4	20.3	6.7
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: P458522
 CATALOG NUMBER: GALN-SA1A-735-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5
2.5°	1170.8	1166.5	1147.4	1130.3	1114.5	1097.9	1083.8	1071.4	1072.6	1072.8	1060.2
5°	1144.1	1134.3	1098.1	1064.3	1035.7	999.5	968.5	948.5	938.5	925.1	929.9
7.5°	1107.9	1089.0	1038.8	982.5	929.9	883.0	832.0	796.9	774.6	752.9	755.7
10°	1070.5	1040.2	967.1	892.7	824.6	749.5	684.5	628.7	587.3	571.8	561.6
12.5°	1032.1	992.3	899.4	800.5	706.4	616.6	524.4	464.6	418.8	394.5	397.6
15°	997.1	948.7	828.9	708.3	586.1	479.1	387.2	330.2	298.3	291.6	295.4
17.5°	964.7	901.3	762.9	618.7	476.0	359.3	290.9	258.7	245.9	242.3	242.1
20°	931.3	861.0	688.8	523.0	371.0	278.5	238.7	223.7	221.3	222.8	223.0
22.5°	897.5	811.2	612.5	427.9	295.4	227.8	208.7	204.7	206.6	209.9	210.4
25°	866.3	767.4	539.2	344.5	235.9	200.1	190.8	190.8	195.1	200.1	200.4
27.5°	840.5	725.0	466.0	273.5	197.5	180.1	177.0	178.7	184.6	188.5	188.7
30°	819.3	685.4	396.9	219.2	173.7	164.2	163.4	166.3	170.6	174.2	174.4
32.5°	803.4	650.7	332.4	184.2	157.2	152.0	151.8	153.9	156.3	157.2	158.2
35°	797.2	621.8	273.3	162.0	146.3	143.0	143.0	142.7	143.7	144.1	144.6
37.5°	802.2	599.7	227.5	147.7	138.2	135.8	134.4	132.9	132.5	132.5	132.7
40°	823.4	588.0	193.5	138.4	132.5	128.9	126.3	124.6	122.9	123.4	123.9
42.5°	868.4	590.1	170.3	132.2	127.5	122.5	118.6	116.7	115.6	117.0	116.7
45°	940.1	611.6	155.6	127.9	122.5	116.0	112.5	110.5	110.5	112.7	113.4
47.5°	1040.4	652.6	147.7	124.6	118.6	111.0	107.5	106.0	106.5	110.1	110.3
50°	1162.9	723.8	146.3	122.9	116.7	107.5	103.4	102.0	103.2	107.0	107.5
52.5°	1298.0	815.5	153.2	123.2	115.1	105.3	100.1	97.9	99.1	102.2	103.2
55°	1458.1	930.4	171.1	124.1	112.7	104.1	97.7	92.9	94.3	96.5	96.7
57.5°	1621.5	1075.2	202.5	124.4	110.8	102.0	93.6	87.4	87.4	88.9	89.6
60°	1821.2	1232.9	244.0	124.6	111.0	98.9	88.2	81.2	80.3	81.0	81.2
62.5°	2019.4	1364.9	250.9	123.9	113.4	95.8	82.2	75.0	73.4	73.1	72.7
65°	2106.8	1340.4	205.6	120.6	116.0	93.9	77.4	69.1	66.2	65.3	65.3
67.5°	1964.4	1133.8	154.6	116.0	114.4	92.0	72.9	64.1	60.8	58.8	58.8
69°	1830.5	1008.5	138.9	112.9	110.1	88.9	70.0	61.5	57.4	55.3	54.6
70°	1727.1	922.3	132.2	110.3	106.0	85.3	67.9	59.6	55.0	52.7	52.2
72.5°	1378.3	723.6	115.8	100.3	90.3	71.7	60.3	53.6	49.3	46.7	46.0
75°	794.3	392.2	96.0	87.2	72.7	55.8	51.0	46.7	43.4	41.0	40.3
77.5°	244.4	151.5	69.6	68.9	53.4	43.1	40.7	39.1	36.7	34.1	33.6
80°	102.9	77.2	47.2	46.5	35.5	30.0	29.3	29.1	28.1	26.0	25.3
82.5°	56.5	43.6	32.9	28.6	21.4	17.4	18.1	18.3	17.6	15.5	14.1
85°	27.6	23.8	16.0	12.9	9.8	6.2	6.0	7.1	6.7	4.8	5.2
87.5°	5.5	6.7	4.3	1.9	1.0	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)