

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: P458535

Luminaire Tested: **GALN-SA1A-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
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-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4275 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

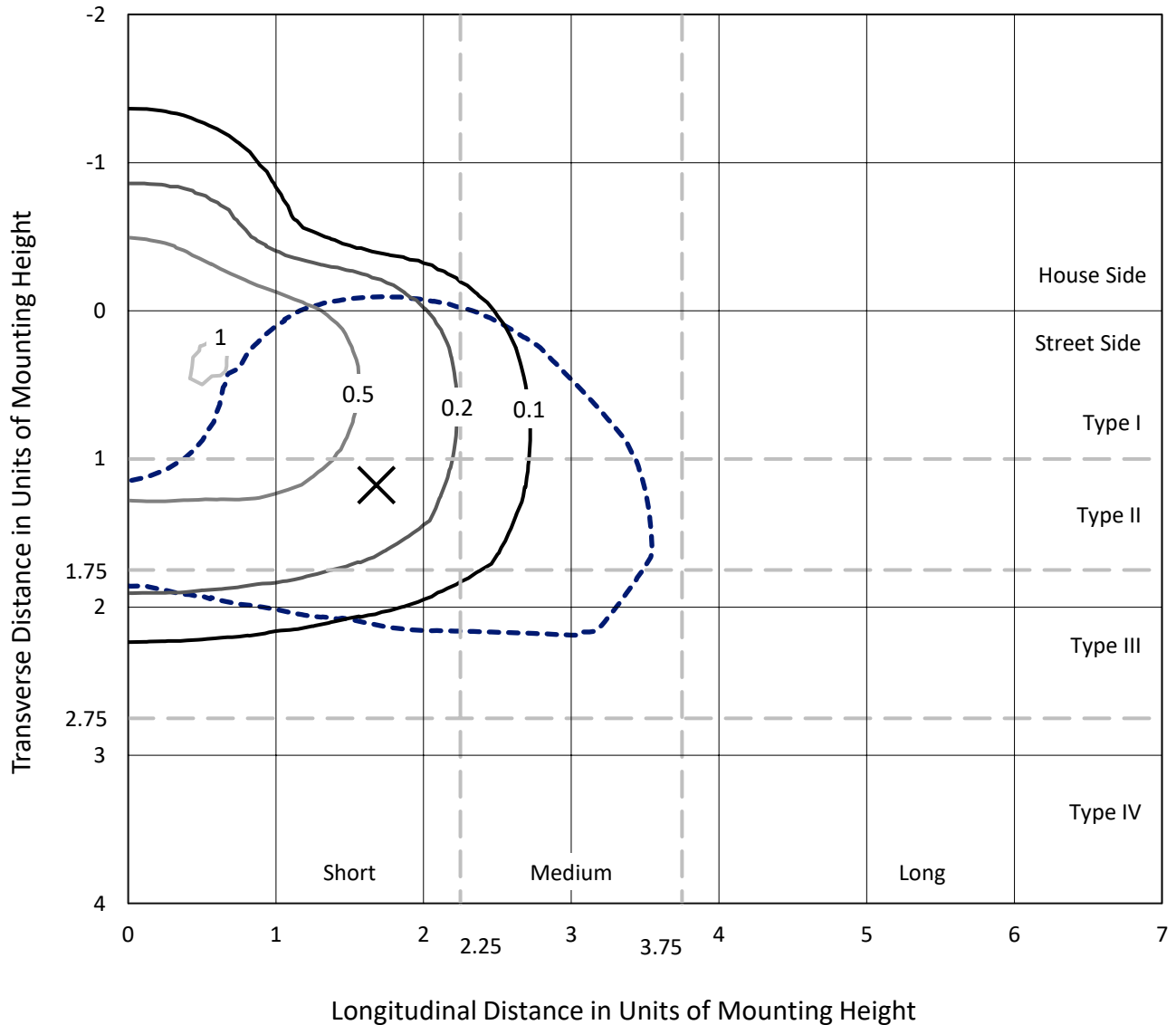
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458535
 CATALOG NUMBER: GALN-SA1A-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

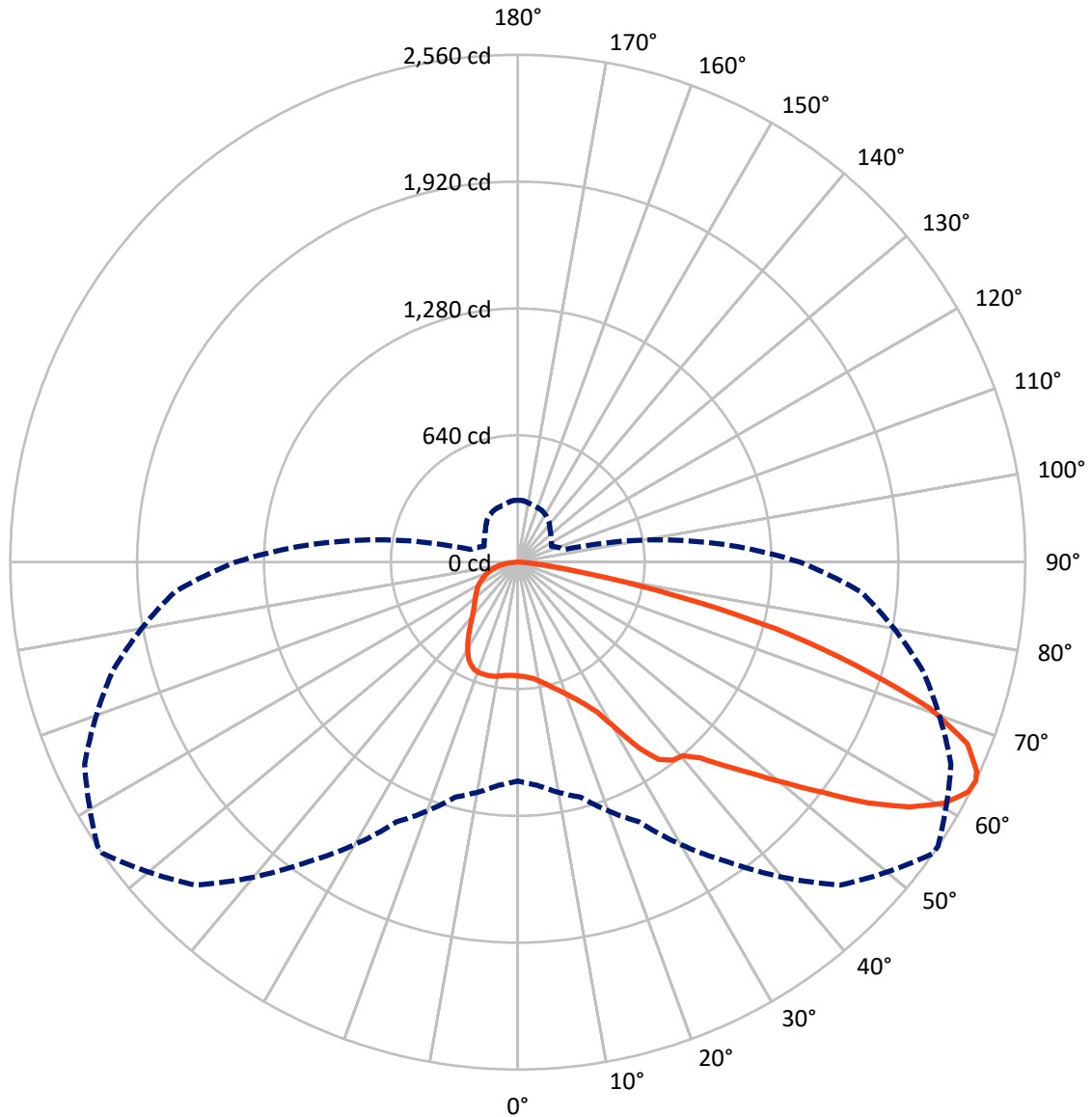
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

REPORT NUMBER: P458535
CATALOG NUMBER: GALN-SA1A-735-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P458535

CATALOG NUMBER: GALN-SA1A-735-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1038.5	0.0	1038.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	3236.5	0.0	3236.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	4275.0	0.0	4275.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.8	1.3
10°-20°	176.0	4.1
20°-30°	313.4	7.3
30°-40°	482.2	11.3
40°-50°	683.6	16.0
50°-60°	989.5	23.1
60°-70°	1024.0	24.0
70°-80°	479.5	11.2
80°-90°	71.0	1.7
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°	4275.0	100.0
0°-180°	4275.0	100.0



REPORT NUMBER: P458535

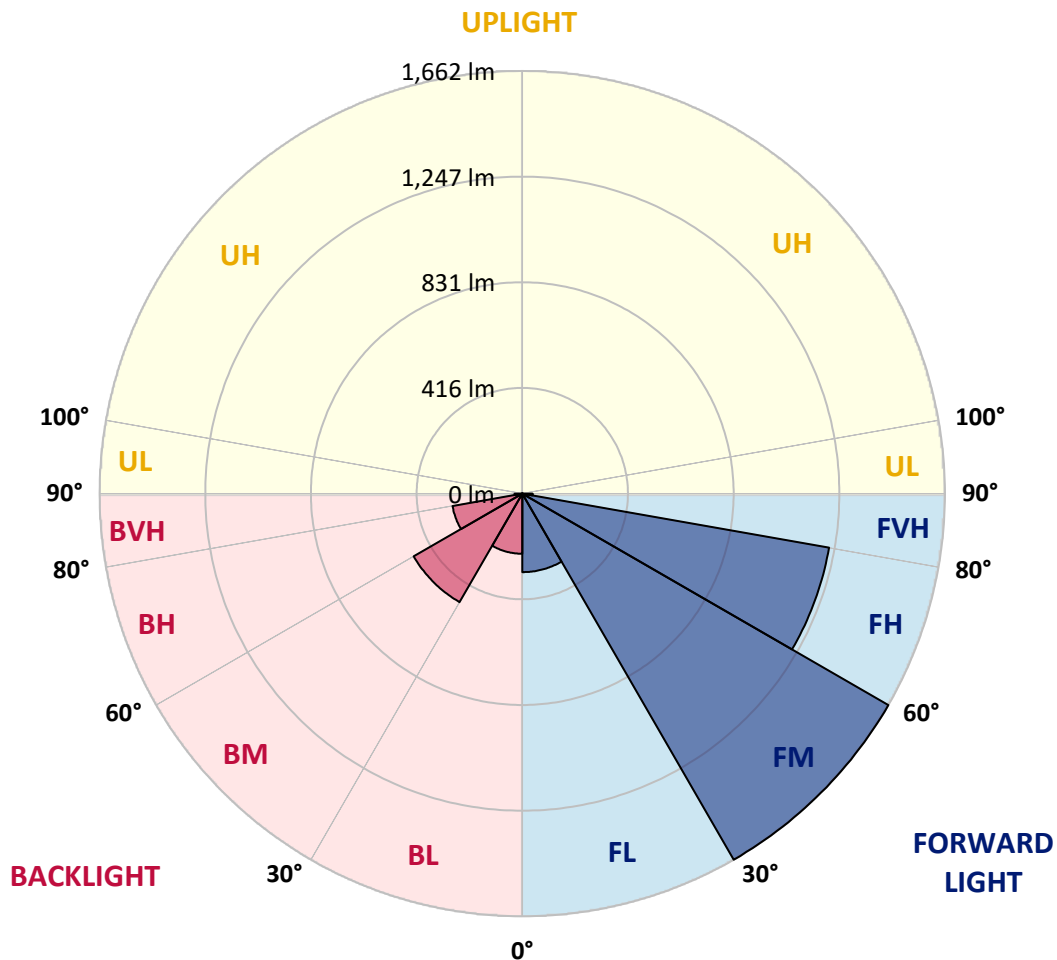
CATALOG NUMBER: GALN-SA1A-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	308.7	7.2			
FM (30°-60°)	1662.2	38.9			
FH (60°-80°)	1224.9	28.7			G1/1800
FVH (80°-90°)	40.6	1.0			G1/100
BL (0°-30°)	236.5	5.5	B1/500		
BM (30°-60°)	493.0	11.5	B1/1000		
BH (60°-80°)	278.6	6.5	B1/500		G1/500
BVH (80°-90°)	30.3	0.7			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 III Short





REPORT NUMBER: P458535

CATALOG NUMBER: GALN-SA1A-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6
2.5°	580.0	579.8	580.5	579.8	580.2	578.6	577.9	578.3	577.6	576.4	574.3
5°	587.2	586.9	587.2	586.2	586.7	585.7	584.1	584.5	583.3	580.7	577.6
7.5°	599.3	598.4	598.4	598.1	597.2	595.7	594.5	594.1	592.9	589.5	584.8
10°	615.0	615.0	615.3	613.4	614.6	611.9	610.7	610.5	606.5	602.2	595.5
12.5°	635.8	637.0	636.2	635.3	634.8	633.9	629.8	630.8	626.2	618.9	610.7
15°	661.5	663.4	662.2	661.7	660.6	657.0	655.3	654.6	648.6	637.9	627.2
17.5°	695.6	693.2	692.2	691.1	686.1	683.4	680.6	680.1	674.9	662.2	645.5
20°	725.4	728.7	726.8	725.6	720.6	715.6	713.5	712.7	708.2	694.4	667.7
22.5°	760.9	761.6	762.3	759.4	757.1	753.3	749.4	748.2	746.6	732.3	699.6
25°	798.8	801.6	799.2	796.4	793.5	793.3	796.9	796.4	795.7	781.8	742.1
27.5°	860.5	863.1	863.8	860.7	849.8	850.7	858.8	861.4	872.4	849.5	796.6
30°	895.3	897.9	903.9	915.5	932.9	948.2	967.7	973.7	984.2	941.0	861.4
32.5°	916.7	917.7	928.4	950.1	1002.3	1059.2	1112.4	1114.5	1121.2	1060.7	920.8
35°	950.6	951.3	959.9	983.7	1044.9	1139.8	1222.0	1224.6	1219.1	1097.8	948.4
37.5°	992.3	994.2	999.6	1019.4	1092.6	1207.2	1267.5	1265.6	1217.0	1127.4	997.3
40°	1053.0	1053.0	1046.6	1073.3	1142.9	1245.8	1283.5	1280.1	1267.3	1212.9	1071.6
42.5°	1106.6	1105.7	1120.9	1139.0	1205.8	1305.4	1350.4	1355.9	1377.1	1320.4	1156.2
45°	1176.5	1180.8	1189.3	1222.2	1312.8	1407.1	1465.3	1470.5	1500.5	1446.9	1255.1
47.5°	1247.0	1248.4	1275.4	1319.2	1445.3	1545.1	1592.8	1601.3	1628.7	1594.9	1361.6
50°	1297.0	1310.6	1353.8	1422.9	1581.8	1713.3	1750.5	1760.8	1809.1	1756.0	1485.8
52.5°	1349.9	1363.3	1415.9	1521.3	1738.6	1885.4	1931.1	1938.1	1988.3	1919.0	1612.8
55°	1395.2	1407.6	1467.4	1608.5	1863.5	2061.0	2143.9	2135.8	2159.9	2044.6	1710.7
57.5°	1402.6	1412.6	1487.9	1664.3	1957.4	2211.6	2330.5	2335.3	2307.4	2138.5	1791.5
60°	1345.4	1365.9	1452.4	1658.3	1999.5	2316.5	2469.7	2473.0	2393.9	2186.6	1823.7
62.5°	1244.1	1242.0	1346.6	1562.5	1940.4	2340.3	2551.7	2548.1	2427.7	2163.5	1792.5
64°	1104.3	1130.0	1227.7	1444.8	1845.1	2303.6	2560.2	2558.3	2411.5	2115.3	1739.3
65°	1018.9	1017.5	1114.0	1348.5	1750.3	2248.3	2545.0	2542.4	2377.7	2072.2	1698.1
67.5°	735.6	739.0	834.3	1040.6	1422.9	2032.2	2445.6	2435.9	2244.3	1929.2	1541.3
70°	445.6	447.5	522.3	690.3	1021.3	1642.8	2204.5	2204.9	2040.0	1715.7	1311.8
72.5°	234.7	239.7	269.7	392.0	620.3	1152.6	1788.4	1830.8	1751.5	1464.3	1036.3
75°	130.6	131.3	152.5	193.3	316.5	645.1	1344.2	1356.4	1386.6	1178.6	766.4
77.5°	99.6	101.0	107.7	124.9	172.3	299.1	813.5	874.5	977.2	830.9	437.3
80°	80.8	82.2	87.9	98.2	114.6	141.8	377.9	410.8	523.1	368.9	170.6
82.5°	62.9	62.0	69.3	76.0	83.4	83.9	155.1	171.6	213.0	158.7	73.9
85°	46.7	46.7	52.7	51.2	53.9	49.1	68.4	75.5	85.3	67.4	34.3
87.5°	18.6	20.5	34.6	31.0	24.1	19.3	25.3	26.7	29.5	26.5	14.3
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: P458535
 CATALOG NUMBER: GALN-SA1A-735-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6
2.5°	574.5	575.2	573.6	572.4	571.9	571.2	570.5	570.7	571.7	572.6	572.4
5°	577.4	577.6	574.8	573.3	572.4	571.4	571.4	572.1	574.1	575.5	575.5
7.5°	584.5	584.5	580.5	577.9	576.4	574.8	574.3	574.5	576.0	577.9	578.1
10°	595.7	594.8	589.5	585.5	582.9	578.8	575.2	573.3	574.1	575.2	575.2
12.5°	609.3	606.7	600.0	594.5	588.1	580.5	573.1	569.3	569.0	570.2	569.8
15°	623.9	621.0	611.7	601.7	590.5	579.3	570.5	565.0	560.7	559.5	562.1
17.5°	640.8	634.8	621.9	608.1	591.4	576.9	563.1	551.9	544.3	542.1	542.8
20°	661.3	653.4	636.0	614.3	590.7	568.3	546.9	531.9	519.5	515.7	516.1
22.5°	689.6	676.0	650.5	617.4	584.8	552.1	522.3	502.8	487.8	481.8	485.4
25°	721.8	707.0	664.4	616.7	569.3	526.2	493.3	467.8	454.2	445.4	447.3
27.5°	766.1	739.9	679.1	610.3	547.1	494.5	456.3	432.3	419.9	415.3	417.5
30°	822.8	782.6	695.1	592.9	512.1	454.4	419.2	403.4	396.0	390.3	392.2
32.5°	863.8	812.6	698.7	563.6	474.2	418.0	393.9	382.2	374.1	368.6	369.8
35°	893.1	838.1	697.0	527.6	434.7	387.9	373.9	364.4	351.2	339.3	337.2
37.5°	932.4	870.0	684.9	488.3	395.6	367.7	357.7	340.0	321.2	305.3	304.5
40°	992.7	907.4	658.9	442.0	362.2	352.7	340.5	317.6	297.4	284.5	283.6
42.5°	1054.9	942.0	623.6	393.4	334.8	336.9	322.2	299.5	287.1	278.8	277.9
45°	1130.9	979.4	585.5	351.2	314.5	322.2	306.2	293.1	285.7	280.2	278.8
47.5°	1213.2	1017.8	542.6	313.4	297.4	308.6	299.5	293.6	289.5	285.7	284.0
50°	1301.8	1060.7	502.3	282.9	281.9	294.5	298.8	296.7	294.3	293.1	291.7
52.5°	1399.0	1104.5	468.5	261.4	268.3	284.5	299.1	300.7	300.7	300.0	299.1
55°	1464.8	1135.0	434.2	244.0	254.5	276.4	298.6	305.0	307.4	306.4	305.5
57.5°	1513.4	1151.7	391.0	229.0	242.8	268.6	296.0	305.5	307.9	309.1	308.6
60°	1523.4	1136.2	334.6	213.3	230.2	257.1	286.4	298.3	301.4	308.8	309.5
62.5°	1478.4	1088.5	278.3	197.8	214.7	239.7	273.6	290.2	296.4	307.9	309.1
64°	1423.1	1035.2	247.1	188.0	204.7	230.0	267.1	288.1	296.2	311.5	312.4
65°	1382.6	996.3	227.6	181.8	198.3	223.5	263.6	288.8	298.3	316.9	318.4
67.5°	1233.4	862.6	188.3	167.3	183.0	212.6	264.3	294.8	297.9	319.1	318.8
70°	1020.6	686.8	157.8	153.9	168.2	203.7	261.4	285.2	285.5	299.5	296.2
72.5°	764.2	507.6	136.8	140.1	151.8	182.8	246.9	272.4	268.3	270.2	266.9
75°	525.0	335.8	117.7	125.3	134.6	161.6	226.4	247.4	240.9	238.5	236.2
77.5°	280.2	185.6	97.9	110.8	117.0	139.6	197.5	217.8	211.1	201.8	198.7
80°	113.4	87.5	78.9	91.7	95.3	112.5	164.4	177.1	172.0	155.8	150.6
82.5°	57.0	52.4	62.0	72.2	72.4	80.3	122.2	134.2	123.0	103.2	98.7
85°	29.8	30.7	42.7	50.8	44.8	43.4	73.4	81.3	74.6	64.8	58.4
87.5°	10.7	12.4	22.4	22.2	15.7	8.3	16.2	7.9	4.3	2.6	3.3
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)