

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: P528397

Luminaire Tested: **GALN-SA3C-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11608 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

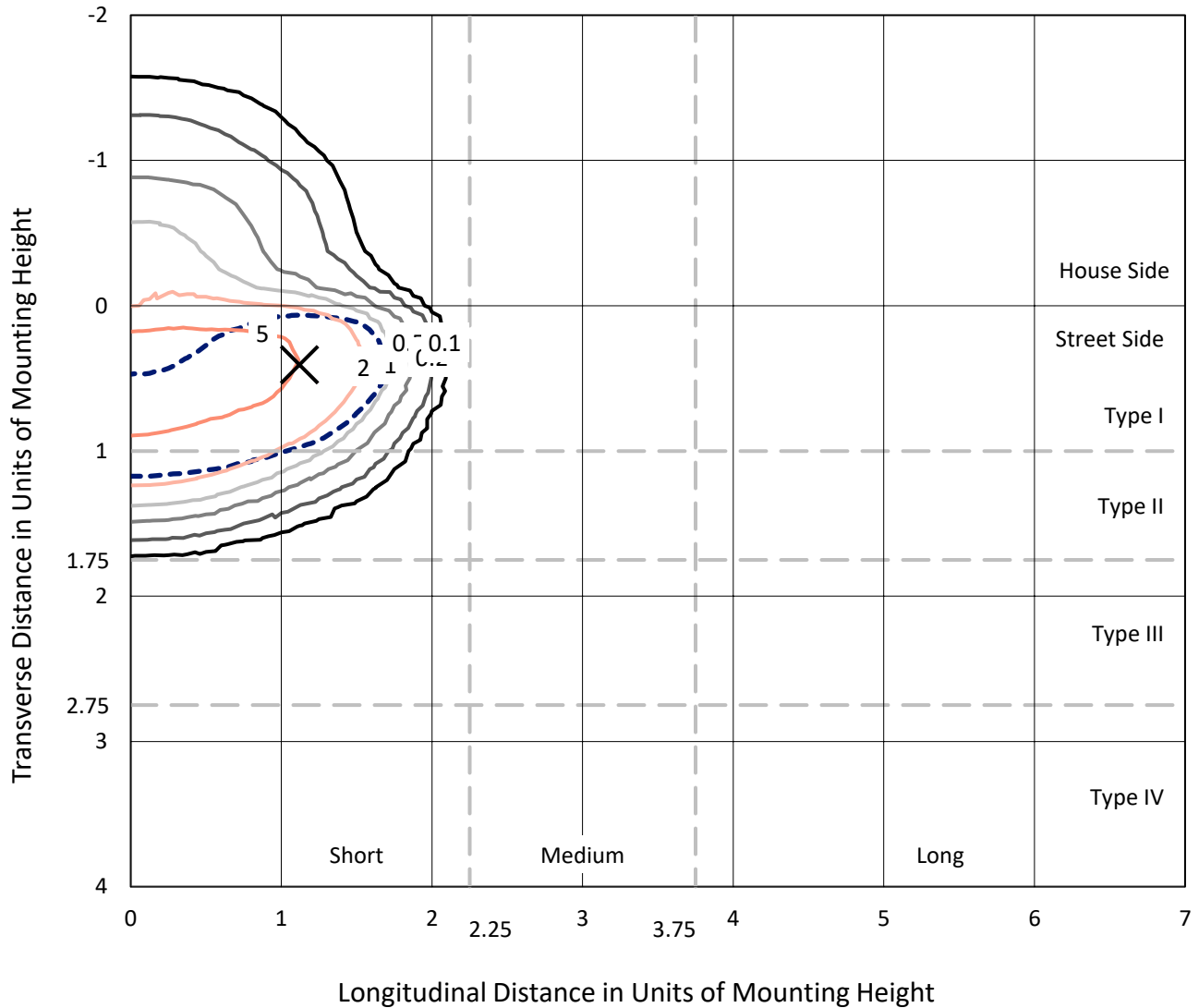
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528397
 CATALOG NUMBER: GALN-SA3C-727-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

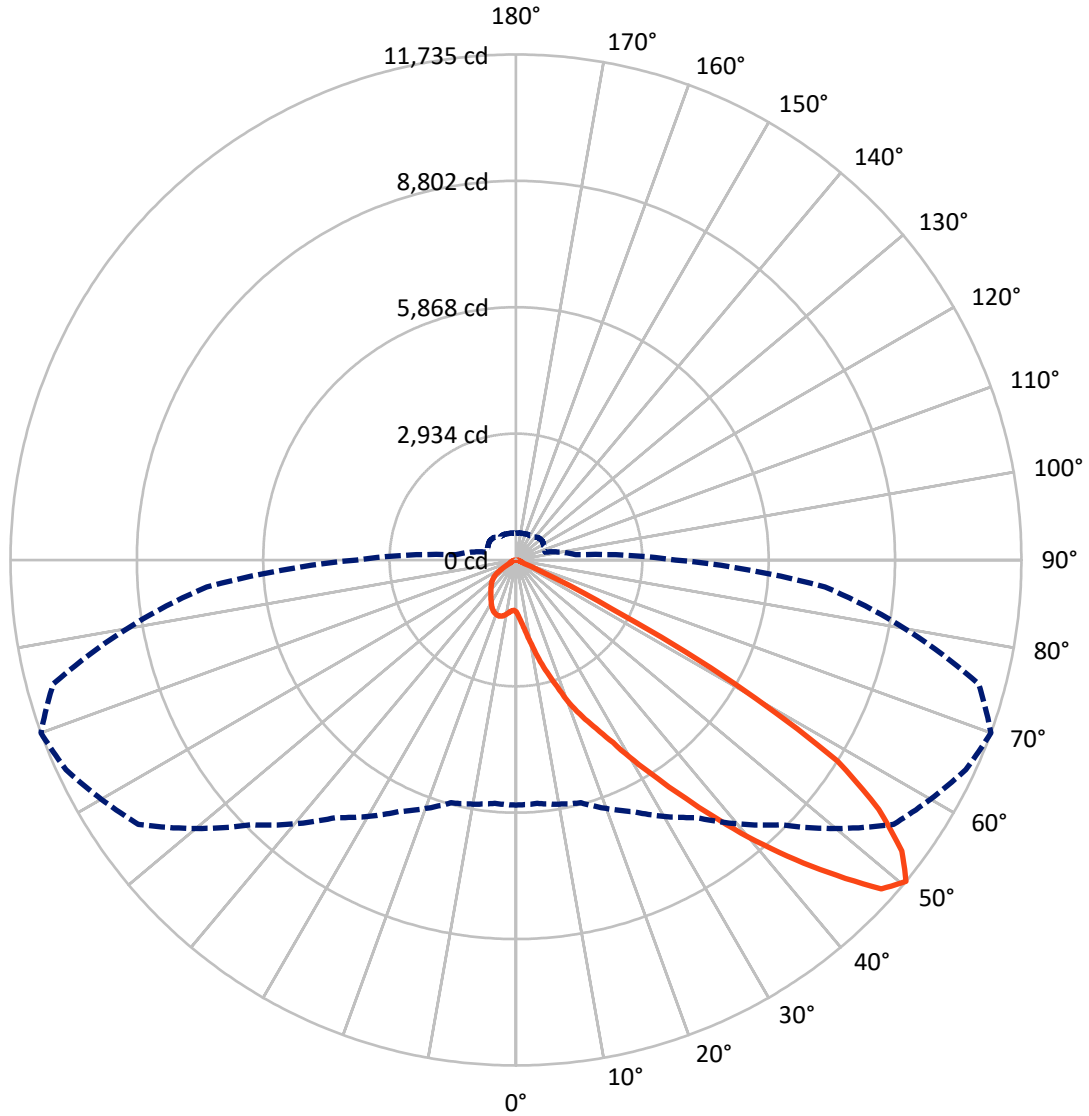
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type I - Short - N/A

REPORT NUMBER: P528397
CATALOG NUMBER: GALN-SA3C-727-U-T2R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P528397

CATALOG NUMBER: GALN-SA3C-727-U-T2R-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1621.1	0.0	1621.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	9986.9	0.0	9986.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	11608.0	0.0	11608.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	1.3
10°-20°	676.3	5.8
20°-30°	1418.8	12.2
30°-40°	2445.5	21.1
40°-50°	3574.1	30.8
50°-60°	2783.7	24.0
60°-70°	471.6	4.1
70°-80°	64.8	0.6
80°-90°	16.8	0.1
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°	11608.0	100.0
0°-180°	11608.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528397

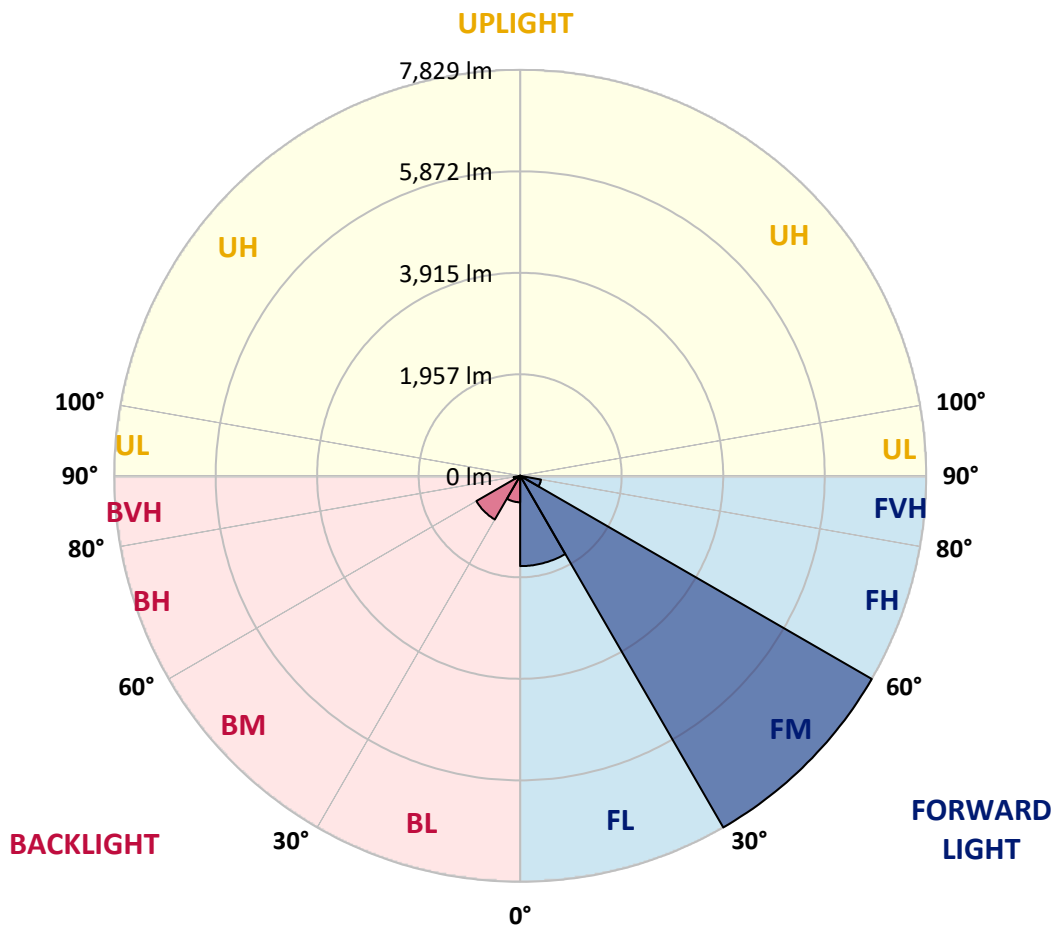
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1741.3	15.0			
FM (30°-60°)	7829.4	67.4			
FH (60°-80°)	408.4	3.5			G0/660
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	510.1	4.4	B2/1000		
BM (30°-60°)	973.9	8.4	B1/1000		
BH (60°-80°)	128.1	1.1	B1/500		G1/500
BVH (80°-90°)	9.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





REPORT NUMBER: P528397

CATALOG NUMBER: GALN-SA3C-727-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4
2.5°	1574.5	1563.1	1538.3	1492.5	1473.4	1427.6	1400.8	1349.3	1316.9	1280.6	1240.5
5°	2217.7	2158.5	2122.3	2070.7	1920.0	1826.4	1671.9	1540.2	1479.1	1412.3	1320.7
7.5°	2881.8	2843.7	2794.1	2683.4	2580.3	2385.6	2120.4	1830.3	1706.2	1591.7	1410.4
10°	3431.5	3324.6	3318.9	3236.8	3124.2	2891.4	2572.7	2212.0	1990.6	1822.6	1538.3
12.5°	3815.1	3717.8	3761.7	3752.1	3647.2	3433.4	3065.1	2587.9	2357.0	2095.5	1669.9
15°	4164.4	4124.3	4110.9	4099.5	4057.5	3899.1	3568.9	3046.0	2712.0	2397.1	1818.8
17.5°	4506.0	4402.9	4452.5	4462.1	4458.3	4315.1	4006.0	3481.1	3088.0	2715.8	1975.3
20°	4809.4	4819.0	4752.2	4738.8	4727.4	4721.6	4420.1	3912.4	3549.8	3049.8	2179.5
22.5°	5198.8	5132.0	5191.1	5153.0	5078.5	5032.7	4801.8	4294.1	3950.6	3452.5	2387.5
25°	5658.7	5712.2	5572.8	5557.6	5475.5	5317.1	5109.1	4721.6	4336.1	3826.6	2612.7
27.5°	6225.6	6132.0	6095.8	6011.8	5862.9	5796.1	5551.9	5162.5	4801.8	4219.7	2830.3
30°	6712.2	6687.4	6506.1	6406.9	6277.1	6275.2	5933.6	5759.9	5408.7	4836.2	3130.0
32.5°	7109.2	7000.4	6933.6	6864.9	6759.9	6788.6	6500.4	6408.8	6055.7	5408.7	3483.0
35°	7374.5	7296.2	7256.1	7151.2	7120.6	7248.5	7128.3	7090.1	6800.0	6214.1	3897.2
37.5°	7458.5	7483.3	7475.6	7343.9	7408.8	7754.3	7908.9	7809.6	7656.9	7063.4	4345.7
40°	7532.9	7550.1	7511.9	7666.5	7851.6	8244.8	8803.9	8639.8	8582.6	7924.1	4969.8
42.5°	7574.9	7561.5	7561.5	7828.7	8109.3	8899.4	9668.5	9559.7	9515.8	8840.2	5691.2
45°	7393.6	7263.8	7403.1	7765.7	8330.6	9221.9	10359.4	10510.2	10447.2	9930.0	6534.7
47.5°	6716.0	6796.2	6874.4	7359.2	8061.5	9122.7	10783.1	11296.5	11412.9	10846.1	7088.2
50°	5691.2	5674.0	5836.2	6446.9	7300.0	8695.2	10701.0	11523.6	11735.4	11120.9	7204.6
52.5°	4139.6	4265.5	4441.1	5048.0	6059.5	7588.2	9641.8	10937.7	11220.1	10783.1	7128.3
55°	2410.4	2271.1	2666.2	3179.6	4133.8	5723.6	8151.2	9695.2	10218.2	10168.5	6742.8
57.5°	965.7	935.2	1070.7	1442.8	2156.6	3547.9	5927.8	7966.1	8803.9	9313.5	5925.9
60°	423.7	414.1	486.7	587.8	881.7	1635.6	3242.6	4954.5	5828.6	6508.0	4078.5
62.5°	305.4	301.5	337.8	374.1	465.7	711.9	1362.7	1996.3	2488.7	3005.9	1826.4
65°	246.2	255.7	280.6	299.6	343.5	395.1	480.9	555.4	681.3	706.1	402.7
67.5°	200.4	208.0	230.9	251.9	259.6	213.8	221.4	194.7	194.7	173.7	139.3
70°	147.0	148.9	175.6	200.4	160.3	85.9	150.8	150.8	135.5	129.8	118.3
72.5°	108.8	110.7	131.7	124.1	63.0	53.4	110.7	122.1	110.7	105.0	95.4
75°	80.2	82.1	68.7	28.6	26.7	34.4	64.9	84.0	80.2	78.2	72.5
77.5°	15.3	11.5	9.5	13.4	19.1	28.6	42.0	51.5	53.4	57.3	53.4
80°	1.9	1.9	5.7	11.5	21.0	30.5	43.9	49.6	51.5	53.4	49.6
82.5°	0.0	1.9	5.7	11.5	21.0	28.6	38.2	43.9	47.7	49.6	47.7
85°	0.0	1.9	3.8	9.5	17.2	21.0	19.1	13.4	11.5	13.4	9.5
87.5°	0.0	0.0	1.9	1.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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: P528397

CATALOG NUMBER: GALN-SA3C-727-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4	1202.4
2.5°	1217.6	1210.0	1183.3	1154.6	1129.8	1141.3	1129.8	1120.3	1124.1	1120.3	1116.5
5°	1284.4	1250.1	1192.8	1168.0	1147.0	1145.1	1139.4	1137.5	1139.4	1139.4	1122.2
7.5°	1347.4	1292.1	1231.0	1204.3	1179.5	1181.4	1168.0	1168.0	1166.1	1156.6	1152.7
10°	1442.8	1368.4	1290.2	1242.4	1211.9	1206.2	1192.8	1179.5	1179.5	1179.5	1160.4
12.5°	1547.8	1454.3	1347.4	1292.1	1255.8	1227.2	1206.2	1202.4	1181.4	1177.5	1168.0
15°	1639.4	1521.1	1385.6	1309.2	1263.4	1225.3	1192.8	1171.8	1162.3	1156.6	1148.9
17.5°	1729.1	1578.3	1406.6	1309.2	1259.6	1215.7	1181.4	1162.3	1139.4	1143.2	1127.9
20°	1849.3	1639.4	1412.3	1284.4	1223.4	1181.4	1135.6	1126.0	1112.7	1101.2	1105.0
22.5°	1965.8	1683.3	1395.1	1253.9	1166.1	1116.5	1093.6	1082.1	1076.4	1066.9	1053.5
25°	2070.7	1731.0	1368.4	1198.5	1105.0	1068.8	1047.8	1045.9	1032.5	1032.5	1007.7
27.5°	2177.6	1748.2	1322.6	1133.7	1051.6	1030.6	1021.1	1017.2	1011.5	998.1	981.0
30°	2299.8	1753.9	1255.8	1066.9	1003.9	981.0	994.3	1003.9	979.1	954.3	961.9
32.5°	2400.9	1740.6	1175.6	1003.9	969.5	958.1	984.8	994.3	965.7	939.0	925.6
35°	2523.0	1708.1	1097.4	954.3	935.2	958.1	981.0	981.0	923.7	891.3	883.6
37.5°	2708.2	1671.9	1024.9	912.3	898.9	946.6	977.2	956.2	866.5	826.4	816.8
40°	2906.7	1649.0	954.3	870.3	879.8	927.5	944.7	879.8	788.2	763.4	755.8
42.5°	3194.8	1603.1	891.3	834.0	862.6	900.8	900.8	784.4	750.0	736.7	734.8
45°	3553.6	1570.7	835.9	803.5	837.8	847.4	816.8	734.8	710.0	706.1	708.1
47.5°	3729.2	1507.7	778.7	767.2	792.0	793.9	713.8	694.7	673.7	668.0	664.2
50°	3702.5	1395.1	704.2	719.5	753.9	734.8	650.8	654.6	635.5	633.6	624.1
52.5°	3515.5	1217.6	629.8	666.1	704.2	648.9	599.3	595.5	595.5	570.6	561.1
55°	3116.6	981.0	540.1	585.9	631.7	545.8	532.5	528.7	519.1	496.2	490.5
57.5°	2467.7	719.5	406.5	456.1	536.3	463.8	461.9	444.7	419.9	402.7	402.7
60°	1467.6	414.1	255.7	278.6	355.0	376.0	418.0	410.3	368.3	341.6	334.0
62.5°	669.9	213.8	162.2	166.0	190.9	244.3	328.3	379.8	320.6	274.8	271.0
65°	225.2	158.4	133.6	127.9	131.7	147.0	196.6	269.1	255.7	211.8	204.2
67.5°	137.4	141.2	126.0	116.4	116.4	114.5	112.6	122.1	150.8	147.0	148.9
70°	118.3	129.8	116.4	105.0	101.2	95.4	80.2	66.8	57.3	66.8	70.6
72.5°	95.4	103.1	99.2	89.7	80.2	72.5	57.3	43.9	32.4	28.6	28.6
75°	70.6	76.3	80.2	68.7	61.1	51.5	42.0	28.6	17.2	11.5	11.5
77.5°	51.5	57.3	59.2	53.4	45.8	36.3	26.7	19.1	9.5	3.8	3.8
80°	43.9	51.5	57.3	53.4	47.7	34.4	24.8	13.4	7.6	1.9	1.9
82.5°	42.0	51.5	57.3	51.5	45.8	32.4	24.8	15.3	5.7	1.9	1.9
85°	9.5	13.4	17.2	21.0	24.8	24.8	19.1	11.5	5.7	1.9	1.9
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	1.9	1.9	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)