

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: P451602

Luminaire Tested: **GALN-SA2C-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12050 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

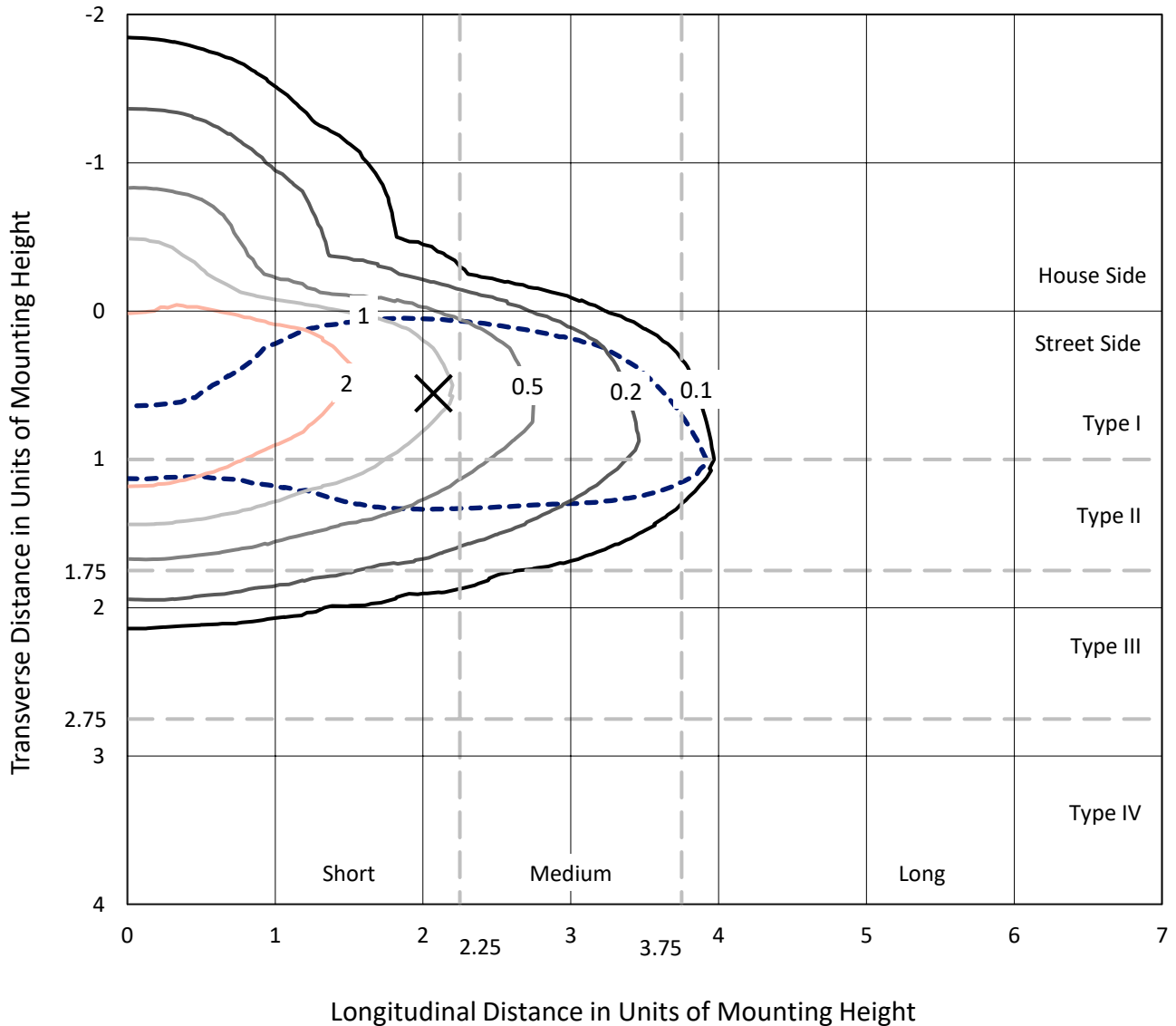
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451602
 CATALOG NUMBER: GALN-SA2C-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

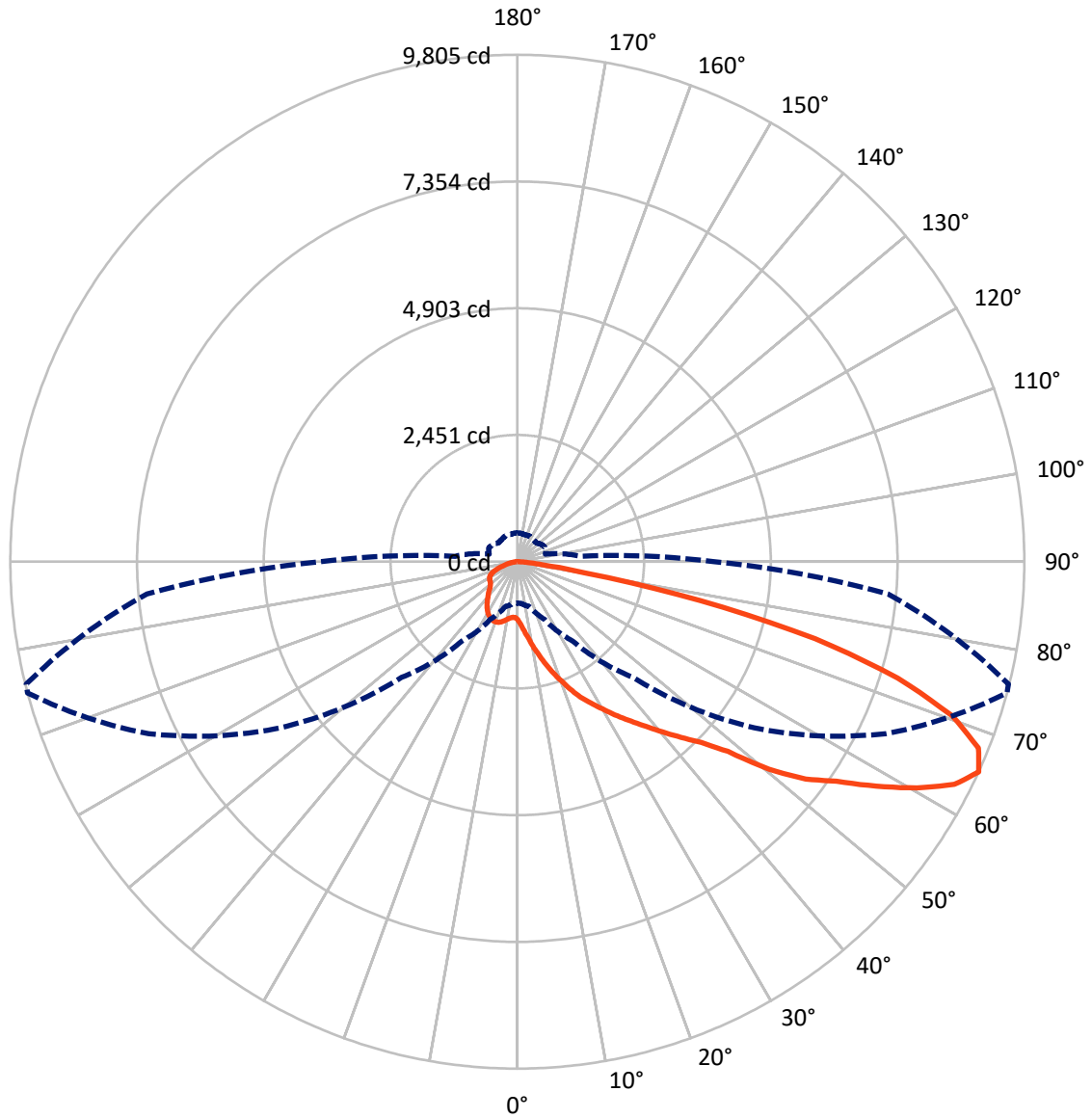
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

REPORT NUMBER: P451602
CATALOG NUMBER: GALN-SA2C-727-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P451602

CATALOG NUMBER: GALN-SA2C-727-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2025.8	0.0	2025.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	10024.2	0.0	10024.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	12050.0	0.0	12050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.1
10°-20°	532.8	4.4
20°-30°	1029.2	8.5
30°-40°	1671.7	13.9
40°-50°	2299.6	19.1
50°-60°	2715.0	22.5
60°-70°	2378.8	19.7
70°-80°	1135.7	9.4
80°-90°	151.1	1.3
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°	12050.0	100.0
0°-180°	12050.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451602

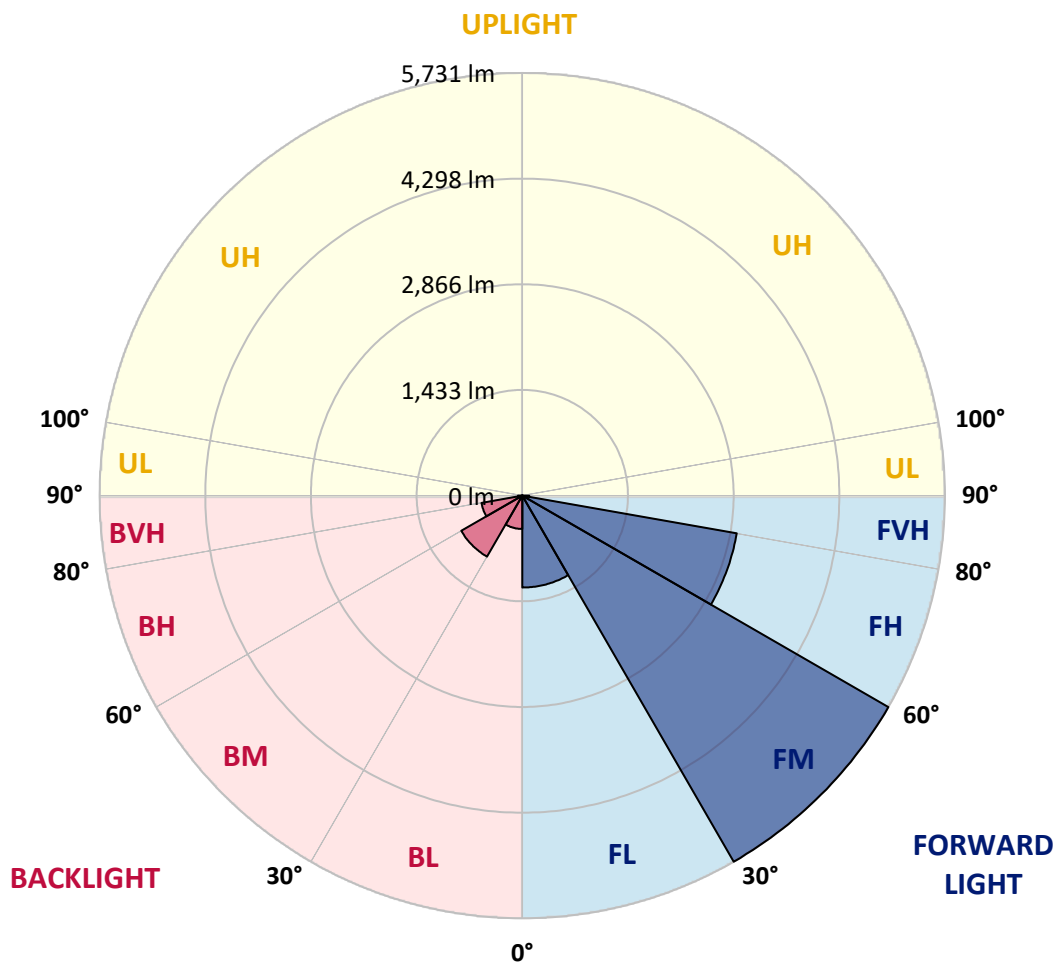
CATALOG NUMBER: GALN-SA2C-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1245.8	10.3			
FM	(30°-60°)	5731.2	47.6			
FH	(60°-80°)	2952.8	24.5			G2/5000
FVH	(80°-90°)	94.4	0.8			G1/100
BL	(0°-30°)	452.2	3.8	B1/500		
BM	(30°-60°)	955.1	7.9	B1/1000		
BH	(60°-80°)	561.7	4.7	B2/1000		G2/1000
BVH	(80°-90°)	56.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P451602

CATALOG NUMBER: GALN-SA2C-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6
2.5°	1487.6	1477.8	1467.3	1438.5	1407.8	1373.2	1323.5	1275.8	1212.4	1210.4	1163.4
5°	1900.0	1893.4	1847.0	1820.2	1749.0	1654.2	1573.8	1449.0	1333.3	1319.6	1228.1
7.5°	2279.1	2253.6	2235.9	2187.6	2117.0	1995.4	1839.9	1671.2	1477.8	1459.5	1307.8
10°	2564.7	2562.1	2552.9	2511.1	2458.1	2337.2	2164.7	1922.9	1660.8	1624.8	1404.6
12.5°	2778.4	2780.4	2779.1	2778.4	2740.5	2637.9	2451.0	2196.1	1845.7	1820.2	1516.3
15°	2918.9	2938.5	2946.4	2979.1	2982.3	2913.7	2752.9	2460.1	2054.2	2016.3	1636.6
17.5°	3011.7	3021.5	3058.1	3113.7	3158.8	3146.4	3003.2	2704.5	2267.3	2203.9	1761.4
20°	3100.6	3117.6	3145.7	3221.5	3301.3	3337.9	3237.2	2954.9	2478.4	2437.9	1899.3
22.5°	3285.6	3309.8	3319.6	3358.1	3426.1	3490.8	3445.1	3194.7	2709.8	2654.9	2045.7
25°	3598.7	3624.1	3596.7	3587.5	3609.8	3641.8	3632.0	3420.9	2928.1	2849.6	2184.3
27.5°	4006.5	4009.8	3956.2	3905.2	3850.3	3834.0	3803.9	3621.5	3117.6	3052.3	2323.5
30°	4444.4	4428.7	4339.8	4247.7	4154.9	4063.4	3977.1	3815.0	3328.7	3253.6	2460.1
32.5°	4850.9	4842.4	4743.7	4600.6	4443.7	4357.5	4183.0	4010.4	3554.9	3482.3	2600.6
35°	5155.5	5167.9	5059.4	4903.2	4732.0	4655.5	4435.3	4215.6	3788.9	3709.8	2753.6
37.5°	5371.8	5365.3	5269.2	5133.9	4983.6	4916.9	4730.0	4439.8	4040.5	3964.7	2920.9
40°	5449.0	5445.0	5373.8	5275.1	5179.7	5156.2	5038.5	4681.7	4328.7	4239.8	3122.2
42.5°	5399.9	5408.4	5361.4	5334.6	5316.9	5333.9	5345.0	4998.6	4643.1	4561.4	3340.5
45°	5249.6	5245.0	5238.5	5282.3	5381.6	5493.4	5648.3	5298.0	4984.9	4919.6	3633.3
47.5°	4981.0	5013.7	5030.0	5150.9	5367.9	5632.6	5997.3	5699.3	5481.0	5424.1	4079.7
50°	4605.2	4631.3	4728.1	4943.1	5266.6	5684.9	6338.5	6355.5	6308.4	6201.9	4564.7
52.5°	4018.3	4058.8	4258.1	4652.2	5058.8	5663.3	6545.0	6918.2	6980.3	6900.6	5042.4
55°	3361.4	3418.3	3628.7	4145.7	4772.5	5545.7	6687.5	7244.4	7492.1	7418.2	5502.6
57.5°	2718.3	2778.4	2994.7	3495.4	4273.2	5285.6	6781.0	7607.8	8188.8	8092.7	6075.1
60°	2037.2	2100.0	2285.6	2801.3	3562.1	4777.1	6717.6	7922.8	8884.9	8843.7	6648.3
62.5°	1314.4	1383.6	1545.1	1971.9	2737.9	4082.3	6378.4	8096.7	9487.5	9437.8	7066.6
65°	800.6	808.5	897.4	1224.2	1873.8	3160.8	5602.6	7865.9	9805.1	9790.1	7194.0
67.5°	517.6	530.1	570.6	733.3	1123.5	2195.4	4479.7	7104.5	9619.5	9614.3	6930.7
70°	437.3	441.2	459.5	494.8	652.9	1331.4	3145.7	5890.8	8914.3	8914.3	6297.3
72.5°	390.8	396.1	402.6	413.7	466.0	754.2	1877.1	4585.6	7696.7	7747.6	5360.1
75°	354.9	353.6	357.5	359.5	397.4	492.8	970.6	3391.5	5954.2	5852.2	3881.7
77.5°	303.9	305.9	303.9	312.4	351.0	375.2	492.8	2275.8	3608.5	3476.4	1948.3
80°	249.7	252.9	256.2	261.4	300.0	285.0	296.1	1037.2	1334.6	1306.5	602.0
82.5°	187.6	192.2	197.4	209.8	235.9	188.2	186.9	443.1	481.7	441.2	221.6
85°	75.8	89.5	135.3	147.7	148.4	103.3	115.0	185.0	196.7	192.2	86.9
87.5°	17.6	20.9	43.8	66.0	60.8	38.6	42.5	60.1	68.6	63.4	29.4
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: P451602
 CATALOG NUMBER: GALN-SA2C-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6	1119.6
2.5°	1141.8	1118.9	1079.7	1049.7	1028.1	1009.1	997.4	990.2	987.6	986.9	987.6
5°	1180.4	1139.9	1077.8	1038.6	1017.0	1004.6	997.4	996.7	997.4	998.0	996.1
7.5°	1233.3	1175.2	1094.1	1057.5	1041.2	1032.0	1028.7	1027.4	1028.1	1027.4	1027.4
10°	1303.9	1224.2	1126.1	1088.2	1074.5	1064.0	1058.8	1055.5	1052.9	1050.3	1049.0
12.5°	1381.7	1278.4	1160.8	1124.2	1104.6	1088.2	1076.5	1068.0	1062.1	1056.2	1054.9
15°	1468.6	1335.9	1199.3	1148.4	1120.3	1096.1	1075.8	1062.1	1051.6	1043.1	1042.5
17.5°	1551.6	1390.2	1225.5	1159.5	1118.3	1084.3	1057.5	1038.6	1025.5	1014.4	1013.1
20°	1640.5	1441.8	1237.2	1152.3	1098.7	1057.5	1022.2	999.3	984.3	971.9	969.9
22.5°	1730.0	1485.6	1235.9	1129.4	1064.7	1016.3	979.1	954.9	937.2	924.8	920.3
25°	1815.7	1520.9	1219.6	1092.8	1017.6	967.3	929.4	907.2	891.5	876.5	876.5
27.5°	1892.8	1541.8	1188.9	1048.4	969.3	916.3	886.3	866.0	851.6	841.8	835.9
30°	1968.6	1551.6	1147.0	992.1	918.3	873.2	849.0	837.2	824.2	813.1	811.8
32.5°	2036.6	1549.7	1094.8	937.2	869.9	837.9	828.1	818.9	805.2	789.5	785.6
35°	2102.6	1536.6	1032.7	877.1	829.4	817.0	819.6	806.5	781.7	762.1	758.8
37.5°	2174.5	1513.1	964.7	828.1	795.4	807.2	813.7	785.0	744.4	713.7	706.5
40°	2257.5	1486.3	894.1	779.1	768.6	798.0	798.0	745.1	689.5	670.6	665.4
42.5°	2354.9	1464.0	835.3	737.9	746.4	775.8	772.5	692.2	669.3	659.5	656.9
45°	2509.1	1456.2	774.5	702.0	728.1	749.7	722.9	673.8	660.8	652.9	650.3
47.5°	2752.9	1465.3	720.9	675.2	707.2	723.5	667.3	661.4	652.3	641.2	639.9
50°	2979.1	1456.8	683.0	660.1	688.9	692.2	644.4	646.4	641.2	628.8	626.1
52.5°	3164.0	1430.1	658.8	652.3	673.2	637.2	622.9	630.1	628.1	612.4	609.8
55°	3367.3	1413.7	647.1	652.3	662.7	589.5	602.6	613.1	610.5	599.3	598.7
57.5°	3613.7	1417.0	638.6	654.2	652.3	565.4	582.3	594.8	594.1	590.8	590.8
60°	3866.0	1418.3	625.5	653.6	639.9	546.4	561.4	579.1	580.4	582.3	582.3
62.5°	3949.6	1361.4	600.0	641.8	612.4	528.1	541.8	566.0	564.7	569.9	570.6
65°	3793.4	1203.9	562.1	615.0	577.1	515.0	526.8	549.0	541.8	555.6	558.2
67.5°	3452.9	996.1	503.3	566.7	537.9	501.3	517.0	525.5	512.4	539.2	539.9
70°	2984.3	777.8	428.8	498.0	493.5	486.9	509.1	496.1	477.8	510.5	503.9
72.5°	2495.4	594.1	342.5	407.2	434.0	465.4	495.4	458.2	432.7	442.5	430.7
75°	1874.5	439.2	275.2	319.0	361.4	434.6	483.0	412.4	373.2	364.0	361.4
77.5°	955.5	286.9	205.9	238.6	271.2	392.8	466.0	358.8	309.1	294.8	288.2
80°	341.2	178.4	145.1	164.7	183.0	337.9	407.2	296.7	239.9	237.3	239.9
82.5°	158.2	115.0	97.4	107.8	108.5	225.5	310.5	221.6	182.4	277.1	234.0
85°	68.0	57.5	54.9	53.6	49.7	100.7	174.5	119.0	185.6	83.0	76.5
87.5°	20.3	22.9	20.3	15.0	11.1	11.1	17.6	6.5	4.6	3.3	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)