

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: P451370

Luminaire Tested: **GALN-SA2B-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451370
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-SA2B-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9753 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

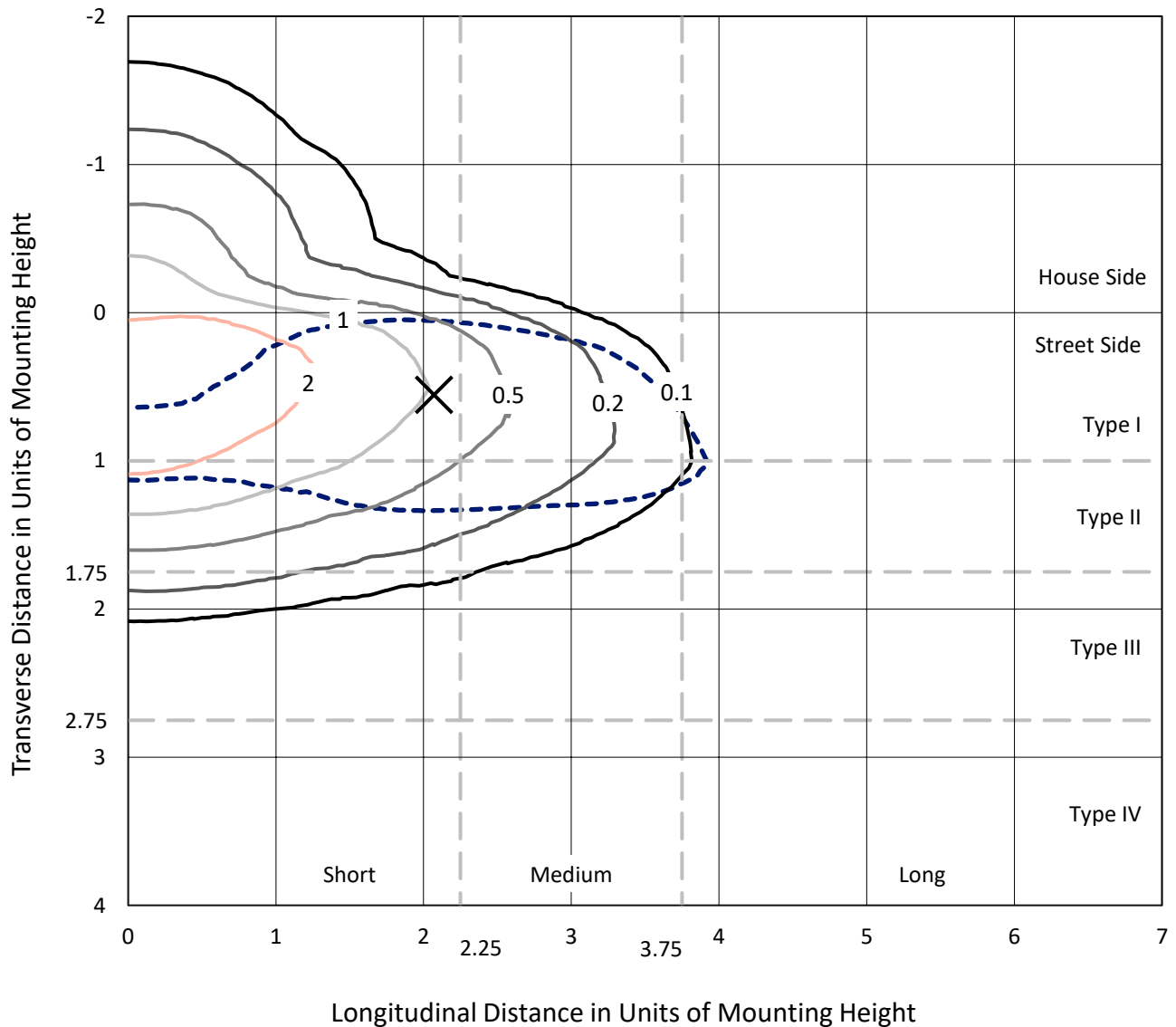
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451370
 CATALOG NUMBER: GALN-SA2B-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

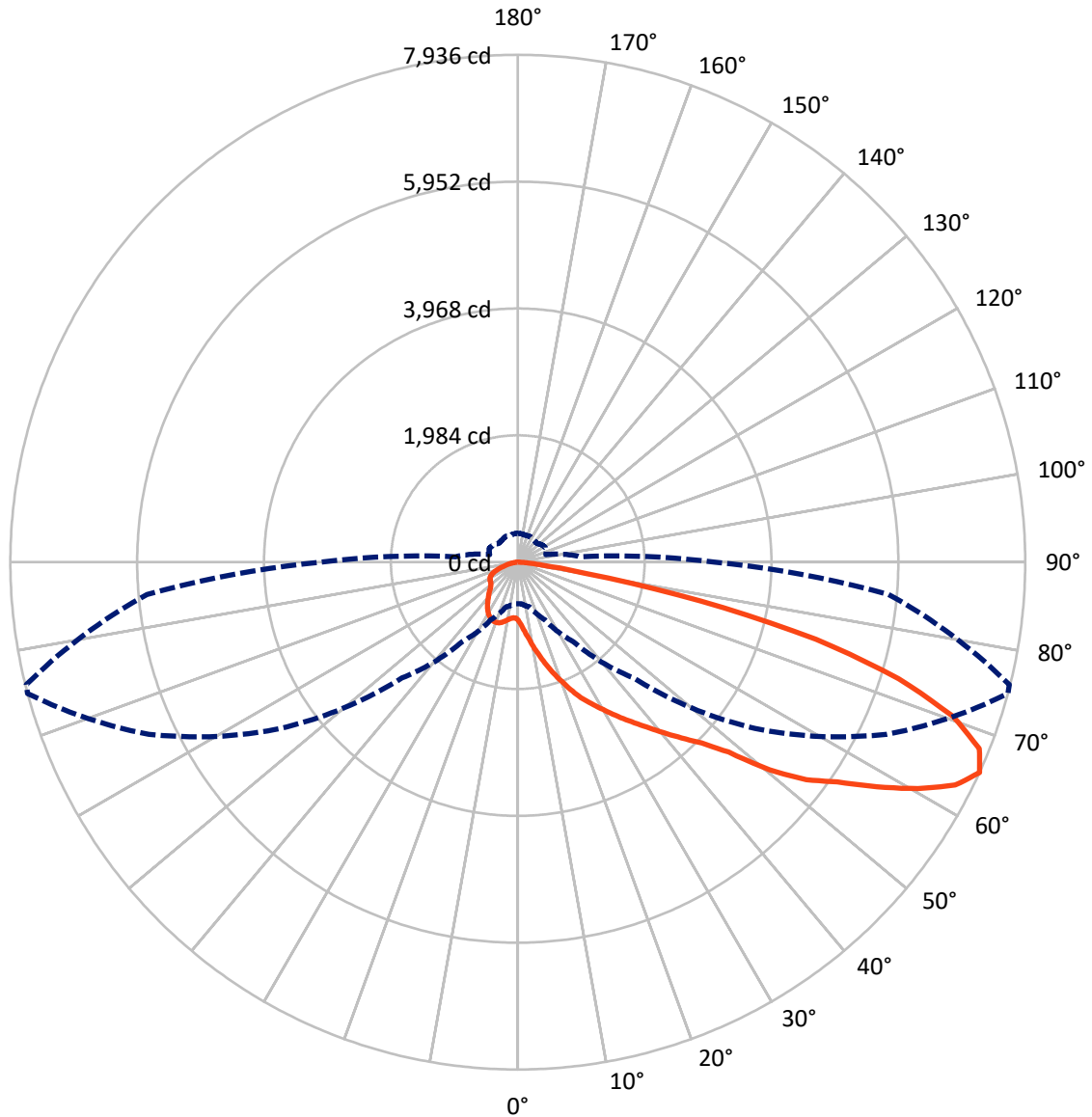
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

REPORT NUMBER: P451370
CATALOG NUMBER: GALN-SA2B-727-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P451370

CATALOG NUMBER: GALN-SA2B-727-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1639.6	0.0	1639.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	8113.4	0.0	8113.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	9753.0	0.0	9753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	1.1
10°-20°	431.2	4.4
20°-30°	833.0	8.5
30°-40°	1353.1	13.9
40°-50°	1861.2	19.1
50°-60°	2197.5	22.5
60°-70°	1925.4	19.7
70°-80°	919.2	9.4
80°-90°	122.3	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°	9753.0	100.0
0°-180°	9753.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451370

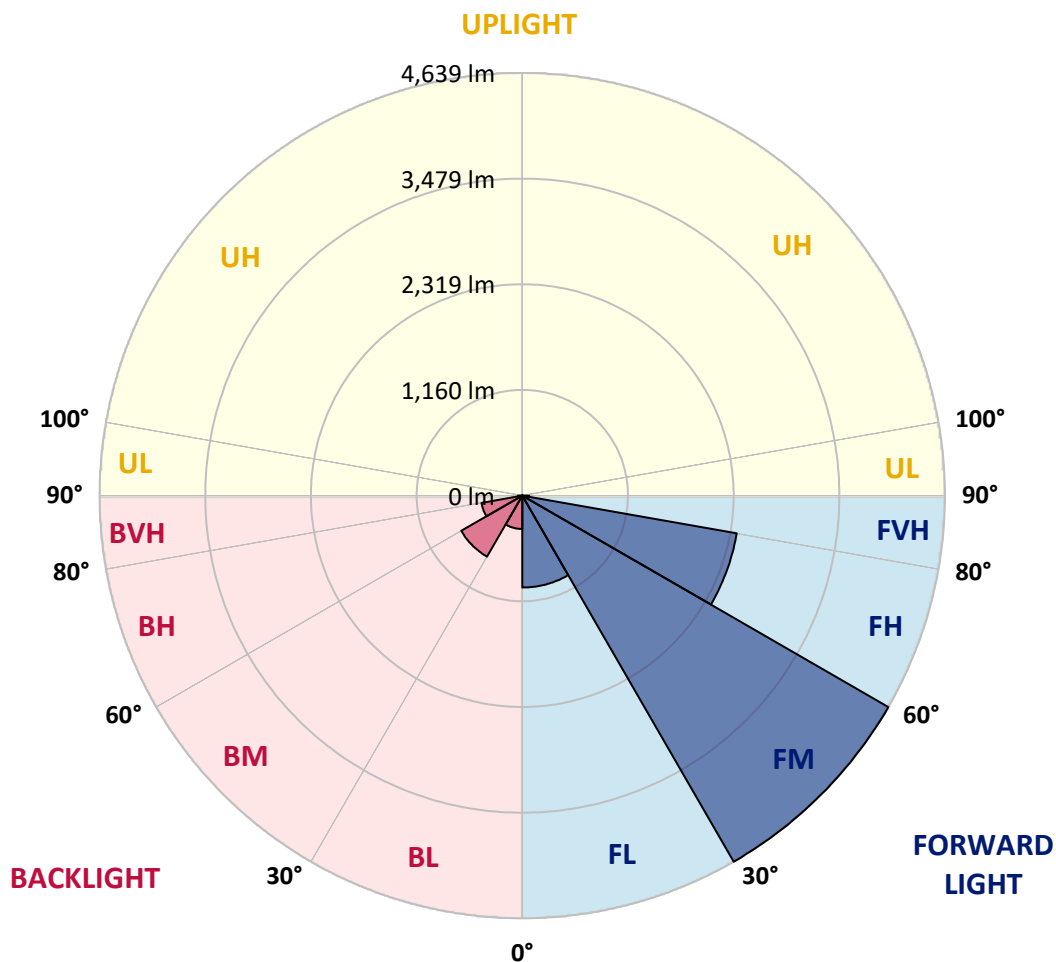
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1008.3	10.3			
FM	(30°-60°)	4638.7	47.6			
FH	(60°-80°)	2389.9	24.5			G2/5000
FVH	(80°-90°)	76.4	0.8			G1/100
BL	(0°-30°)	366.0	3.8	B1/500		
BM	(30°-60°)	773.1	7.9	B1/1000		
BH	(60°-80°)	454.6	4.7	B1/500		G1/500
BVH	(80°-90°)	45.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P451370

CATALOG NUMBER: GALN-SA2B-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	906.2	906.2	906.2	906.2	906.2	906.2	906.2	906.2	906.2	906.2	906.2
2.5°	1204.0	1196.1	1187.6	1164.3	1139.5	1111.4	1071.2	1032.6	981.3	979.7	941.6
5°	1537.8	1532.5	1495.0	1473.3	1415.6	1338.9	1273.8	1172.8	1079.2	1068.1	994.0
7.5°	1844.6	1824.0	1809.7	1770.6	1713.4	1615.0	1489.1	1352.7	1196.1	1181.3	1058.5
10°	2075.8	2073.7	2066.3	2032.4	1989.6	1891.7	1752.0	1556.3	1344.2	1315.1	1136.8
12.5°	2248.8	2250.4	2249.3	2248.8	2218.1	2135.0	1983.7	1777.4	1493.9	1473.3	1227.3
15°	2362.5	2378.4	2384.7	2411.2	2413.8	2358.3	2228.1	1991.2	1662.6	1632.0	1324.6
17.5°	2437.6	2445.6	2475.2	2520.2	2556.7	2546.6	2430.8	2189.0	1835.1	1783.8	1425.7
20°	2509.6	2523.3	2546.1	2607.4	2672.0	2701.6	2620.1	2391.6	2006.0	1973.2	1537.3
22.5°	2659.3	2678.9	2686.8	2718.0	2773.0	2825.4	2788.4	2585.8	2193.2	2148.8	1655.8
25°	2912.7	2933.3	2911.1	2903.7	2921.7	2947.6	2939.7	2768.8	2369.9	2306.4	1767.9
27.5°	3242.8	3245.4	3202.0	3160.8	3116.3	3103.1	3078.8	2931.2	2523.3	2470.4	1880.6
30°	3597.2	3584.5	3512.6	3438.0	3362.9	3288.8	3219.0	3087.8	2694.2	2633.4	1991.2
32.5°	3926.2	3919.4	3839.5	3723.6	3596.7	3526.8	3385.6	3245.9	2877.2	2818.5	2104.9
35°	4172.8	4182.8	4095.0	3968.6	3830.0	3768.1	3589.8	3412.0	3066.6	3002.6	2228.7
37.5°	4347.9	4342.6	4264.8	4155.3	4033.6	3979.7	3828.4	3593.5	3270.3	3208.9	2364.1
40°	4410.3	4407.1	4349.4	4269.6	4192.3	4173.3	4078.1	3789.2	3503.6	3431.6	2527.0
42.5°	4370.6	4377.5	4339.4	4317.7	4303.4	4317.2	4326.2	4045.8	3758.0	3691.9	2703.7
45°	4248.9	4245.2	4239.9	4275.4	4355.8	4446.2	4571.6	4288.1	4034.7	3981.8	2940.7
47.5°	4031.5	4058.0	4071.2	4169.0	4344.7	4558.9	4854.1	4612.9	4436.2	4390.2	3302.0
50°	3727.3	3748.5	3826.8	4000.8	4262.7	4601.2	5130.2	5144.0	5105.9	5019.7	3694.5
52.5°	3252.3	3285.1	3446.4	3765.4	4094.5	4583.8	5297.4	5599.5	5649.7	5585.2	4081.2
55°	2720.6	2766.7	2937.0	3355.4	3862.8	4488.6	5412.7	5863.4	6063.9	6004.1	4453.7
57.5°	2200.1	2248.8	2423.9	2829.1	3458.6	4278.0	5488.4	6157.6	6627.8	6550.1	4917.1
60°	1648.9	1699.7	1849.9	2267.3	2883.0	3866.5	5437.1	6412.5	7191.2	7157.9	5381.0
62.5°	1063.8	1119.9	1250.6	1596.0	2216.0	3304.1	5162.5	6553.3	7679.0	7638.8	5719.5
65°	648.0	654.4	726.3	990.8	1516.6	2558.2	4534.6	6366.5	7936.1	7923.9	5822.7
67.5°	419.0	429.0	461.8	593.5	909.4	1776.9	3625.8	5750.2	7785.8	7781.6	5609.5
70°	353.9	357.1	371.9	400.5	528.5	1077.6	2546.1	4767.9	7215.0	7215.0	5096.9
72.5°	316.3	320.6	325.9	334.9	377.2	610.5	1519.3	3711.5	6229.5	6270.8	4338.3
75°	287.2	286.2	289.4	290.9	321.6	398.9	785.6	2745.0	4819.2	4736.7	3141.7
77.5°	246.0	247.6	246.0	252.9	284.1	303.6	398.9	1842.0	2920.6	2813.8	1576.9
80°	202.1	204.7	207.4	211.6	242.8	230.6	239.6	839.5	1080.2	1057.5	487.2
82.5°	151.8	155.5	159.8	169.8	191.0	152.4	151.3	358.7	389.9	357.1	179.3
85°	61.4	72.5	109.5	119.6	120.1	83.6	93.1	149.7	159.2	155.5	70.4
87.5°	14.3	16.9	35.4	53.4	49.2	31.2	34.4	48.7	55.5	51.3	23.8
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: P451370
 CATALOG NUMBER: GALN-SA2B-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	906.2	906.2	906.2	906.2	906.2	906.2	906.2	906.2	906.2	906.2	906.2
2.5°	924.2	905.6	873.9	849.6	832.1	816.8	807.3	801.4	799.3	798.8	799.3
5°	955.4	922.6	872.3	840.6	823.1	813.1	807.3	806.7	807.3	807.8	806.2
7.5°	998.2	951.1	885.5	855.9	842.7	835.3	832.6	831.6	832.1	831.6	831.6
10°	1055.4	990.8	911.5	880.8	869.7	861.2	857.0	854.3	852.2	850.1	849.0
12.5°	1118.3	1034.7	939.5	909.9	894.0	880.8	871.3	864.4	859.6	854.9	853.8
15°	1188.7	1081.3	970.7	929.5	906.7	887.1	870.7	859.6	851.2	844.3	843.8
17.5°	1255.8	1125.2	991.9	938.4	905.1	877.6	855.9	840.6	830.0	821.0	819.9
20°	1327.8	1167.0	1001.4	932.6	889.2	855.9	827.4	808.8	796.7	786.6	785.0
22.5°	1400.3	1202.4	1000.3	914.1	861.7	822.6	792.4	772.9	758.6	748.5	744.8
25°	1469.6	1231.0	987.1	884.5	823.7	782.9	752.2	734.3	721.6	709.4	709.4
27.5°	1532.0	1247.9	962.3	848.5	784.5	741.7	717.3	700.9	689.3	681.4	676.6
30°	1593.3	1255.8	928.4	803.0	743.2	706.7	687.2	677.6	667.1	658.1	657.0
32.5°	1648.4	1254.3	886.1	758.6	704.1	678.2	670.2	662.8	651.7	639.0	635.9
35°	1701.8	1243.7	835.8	709.9	671.3	661.2	663.4	652.8	632.7	616.8	614.2
37.5°	1760.0	1224.6	780.8	670.2	643.8	653.3	658.6	635.3	602.5	577.7	571.8
40°	1827.2	1202.9	723.7	630.6	622.1	645.9	645.9	603.1	558.1	542.8	538.5
42.5°	1906.0	1185.0	676.1	597.2	604.1	627.9	625.3	560.2	541.7	533.8	531.6
45°	2030.8	1178.6	626.9	568.1	589.3	606.8	585.1	545.4	534.8	528.5	526.4
47.5°	2228.1	1186.0	583.5	546.5	572.4	585.6	540.1	535.3	527.9	518.9	517.9
50°	2411.2	1179.1	552.8	534.3	557.6	560.2	521.6	523.2	518.9	508.9	506.8
52.5°	2560.9	1157.5	533.2	527.9	544.9	515.8	504.1	510.0	508.4	495.7	493.6
55°	2725.4	1144.2	523.7	527.9	536.4	477.2	487.7	496.2	494.1	485.1	484.6
57.5°	2924.8	1146.9	516.8	529.5	527.9	457.6	471.3	481.4	480.9	478.2	478.2
60°	3129.0	1147.9	506.3	529.0	517.9	442.2	454.4	468.7	469.8	471.3	471.3
62.5°	3196.7	1101.9	485.6	519.5	495.7	427.4	438.5	458.1	457.1	461.3	461.8
65°	3070.3	974.4	454.9	497.8	467.1	416.9	426.4	444.4	438.5	449.6	451.8
67.5°	2794.7	806.2	407.3	458.6	435.4	405.7	418.4	425.3	414.7	436.4	437.0
70°	2415.4	629.5	347.0	403.1	399.4	394.1	412.1	401.5	386.7	413.1	407.9
72.5°	2019.7	480.9	277.2	329.6	351.3	376.6	401.0	370.8	350.2	358.1	348.6
75°	1517.2	355.5	222.7	258.2	292.5	351.8	390.9	333.8	302.1	294.7	292.5
77.5°	773.4	232.2	166.6	193.1	219.5	317.9	377.2	290.4	250.2	238.6	233.3
80°	276.1	144.4	117.4	133.3	148.1	273.5	329.6	240.2	194.1	192.0	194.1
82.5°	128.0	93.1	78.8	87.3	87.8	182.5	251.3	179.3	147.6	224.3	189.4
85°	55.0	46.6	44.4	43.4	40.2	81.5	141.2	96.3	150.2	67.2	61.9
87.5°	16.4	18.5	16.4	12.2	9.0	9.0	14.3	5.3	3.7	2.6	2.6
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)