

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: P299215

Luminaire Tested: **GLNA-AF-01-LED-E1-SL2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-SL2-7027-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3482.4 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

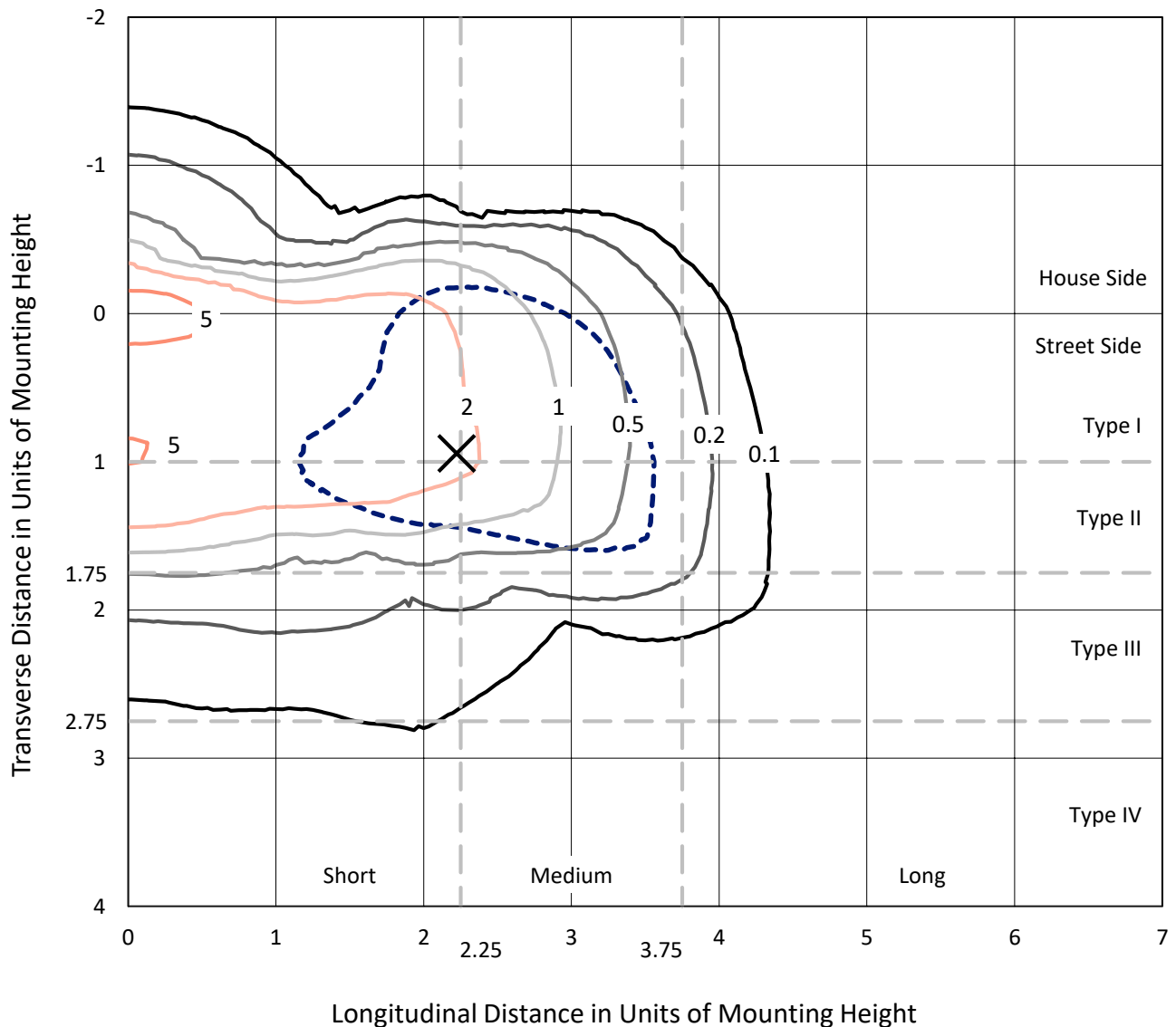
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

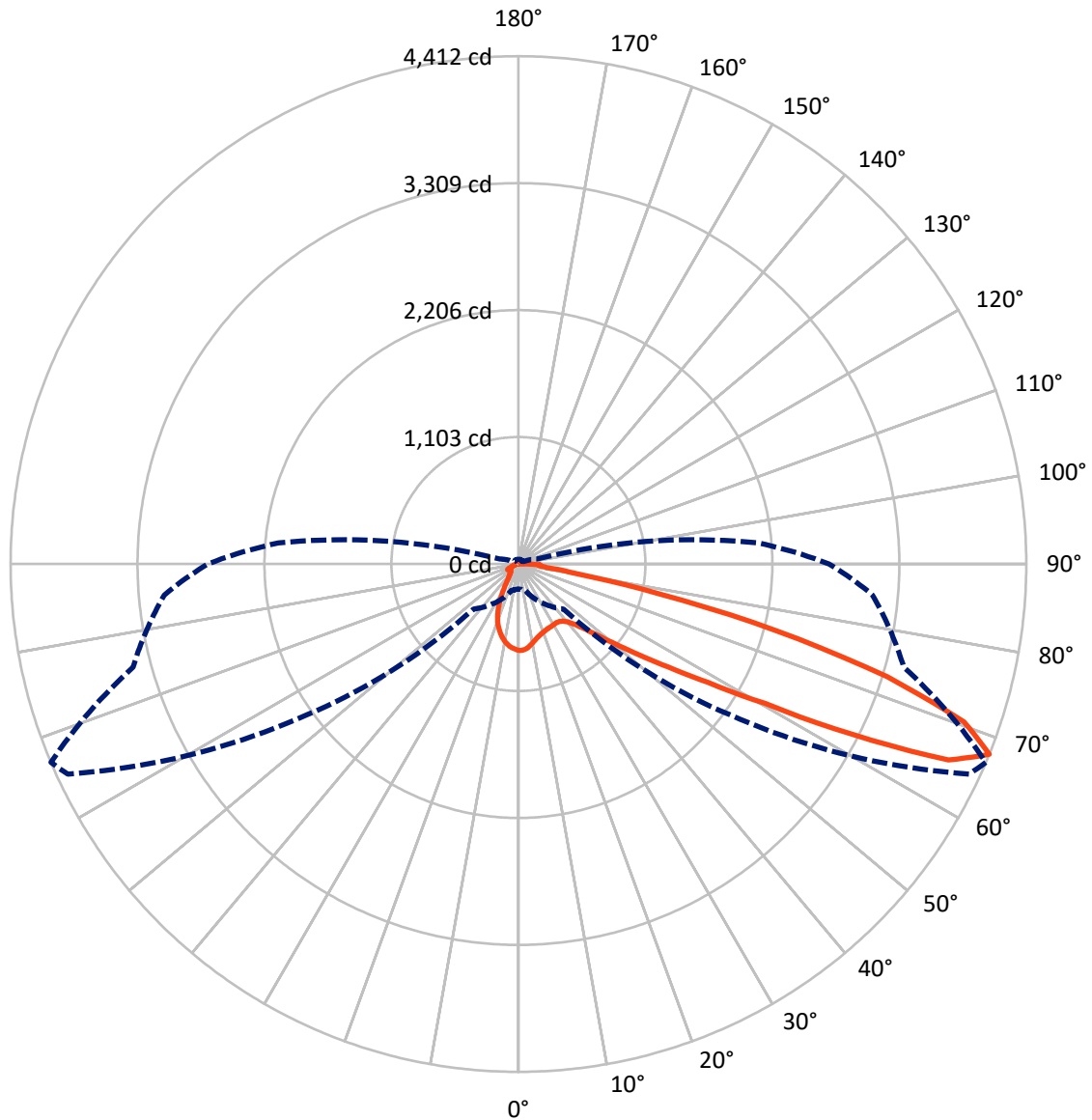
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	577.0	0.0	577.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	2905.4	0.0	2905.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	3482.4	0.0	3482.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	1.8
10°-20°	148.3	4.3
20°-30°	201.0	5.8
30°-40°	285.7	8.2
40°-50°	478.1	13.7
50°-60°	756.3	21.7
60°-70°	963.4	27.7
70°-80°	504.6	14.5
80°-90°	80.9	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°	3482.4	100.0
0°-180°	3482.4	100.0



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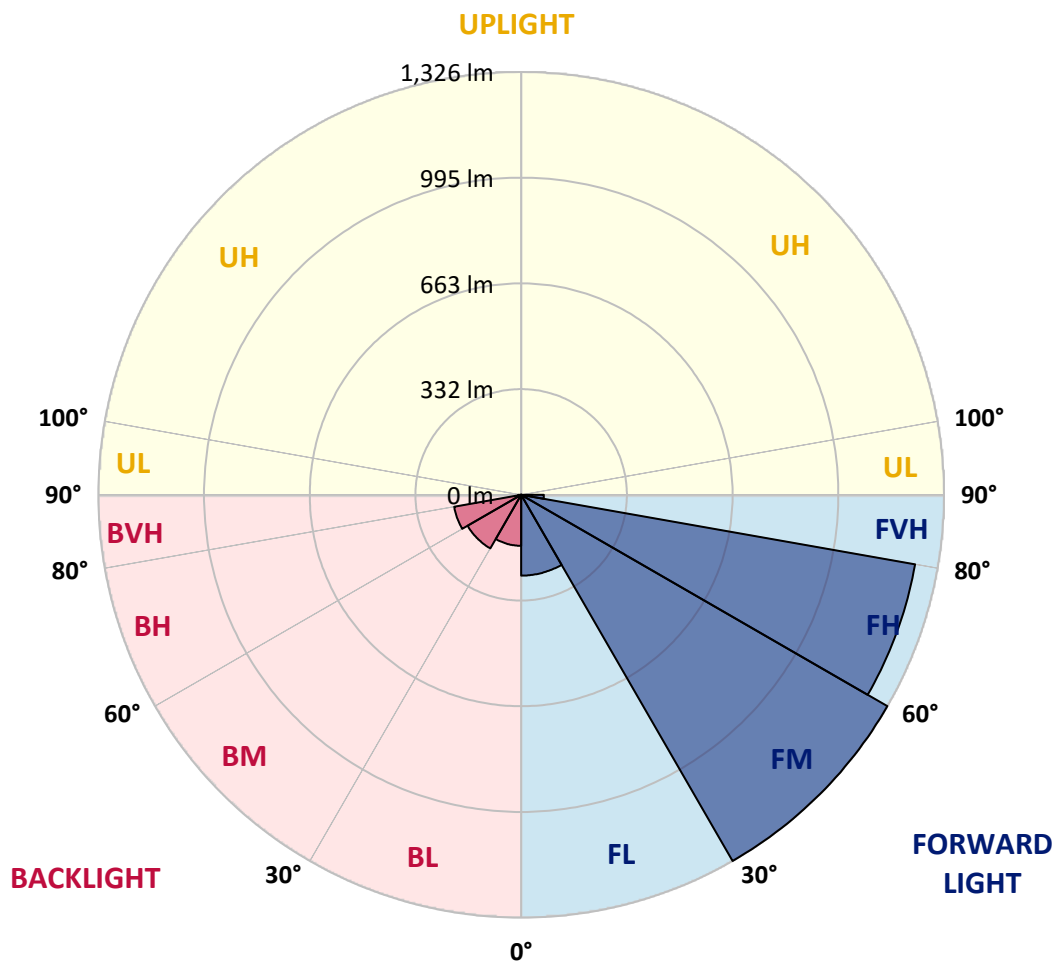
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.4	7.3			
FM	(30°-60°)	1326.2	38.1			
FH	(60°-80°)	1254.6	36.0			G1/1800
FVH	(80°-90°)	71.2	2.0			G1/100
BL	(0°-30°)	159.9	4.6	B1/500		
BM	(30°-60°)	193.9	5.6	B0/220		
BH	(60°-80°)	213.4	6.1	B1/500		G1/500
BVH	(80°-90°)	9.8	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	751.1	751.1	751.1	751.1	751.1	751.1	751.1	751.1	751.1	751.1	751.1
2.5°	720.2	721.4	725.2	727.6	738.4	743.1	746.3	749.6	750.1	751.7	750.1
5°	644.7	647.3	654.3	662.2	683.1	699.6	717.0	735.0	738.3	749.9	753.2
7.5°	586.1	585.4	591.3	600.7	622.2	645.0	675.4	711.3	718.3	744.6	757.3
10°	543.4	542.8	549.0	558.8	579.2	600.9	635.2	684.3	694.3	736.2	761.3
12.5°	511.8	511.9	518.1	528.9	549.7	571.5	606.4	658.2	671.0	726.4	765.4
15°	490.8	492.2	497.2	508.7	528.9	550.7	584.9	638.7	652.9	718.7	770.0
17.5°	483.8	486.0	487.7	496.1	513.5	535.3	568.8	624.2	639.4	713.4	774.2
20°	490.3	492.9	489.6	492.5	503.5	522.7	556.1	612.9	628.4	707.4	774.7
22.5°	518.3	520.7	511.1	502.7	502.0	513.6	545.6	604.0	619.9	702.9	774.8
25°	567.6	569.1	553.0	533.4	514.3	510.4	538.2	597.8	614.8	698.9	771.6
27.5°	628.0	629.2	610.7	581.8	543.5	518.1	535.6	594.2	611.9	695.5	766.1
30°	701.5	707.2	682.3	645.9	590.1	541.0	540.8	592.3	608.6	689.7	755.3
32.5°	776.7	779.1	762.0	725.0	652.7	581.1	555.2	593.7	607.8	682.6	741.5
35°	853.0	856.1	844.9	815.2	738.4	640.0	583.4	601.7	613.1	680.2	731.9
37.5°	951.7	955.9	940.4	906.0	842.7	719.9	630.3	622.0	629.4	687.1	729.0
40°	1107.8	1105.9	1060.8	1009.6	956.7	822.1	697.2	656.4	660.6	709.2	737.9
42.5°	1289.5	1284.9	1207.1	1126.7	1082.1	945.7	785.8	715.9	715.1	752.9	769.4
45°	1434.5	1430.7	1360.6	1261.5	1225.8	1086.5	900.4	804.7	798.4	822.1	827.4
47.5°	1512.9	1513.1	1472.8	1391.9	1391.0	1265.5	1047.6	933.2	922.2	933.4	927.7
50°	1485.5	1489.1	1484.8	1459.0	1541.8	1500.1	1239.7	1112.3	1090.1	1101.1	1079.3
52.5°	1352.5	1357.2	1382.6	1422.1	1605.2	1783.6	1522.0	1334.9	1309.1	1305.2	1280.9
55°	1116.9	1122.6	1174.5	1281.8	1552.4	1974.0	1967.5	1618.6	1577.5	1540.2	1529.9
57.5°	769.9	779.3	862.8	1022.1	1381.9	2031.6	2498.0	2023.0	1939.5	1809.4	1811.8
60°	434.0	445.0	543.4	688.1	1037.8	1969.1	2901.6	2635.5	2459.4	2124.5	2142.3
62.5°	276.0	287.8	362.5	478.1	622.7	1632.5	3066.9	3487.2	3263.4	2512.9	2530.4
65°	223.4	228.6	263.8	394.6	452.2	983.5	2941.4	4188.7	4105.2	3006.0	2924.2
67.5°	218.1	219.8	238.0	331.3	433.6	552.8	2346.2	4319.9	4412.4	3466.4	3088.2
70°	215.5	221.5	268.2	316.2	415.2	466.2	1409.9	3960.3	4106.4	3586.8	2870.0
72.5°	104.6	104.2	135.0	285.9	467.8	483.6	724.4	3204.3	3351.0	3107.5	2358.4
75°	84.3	77.1	73.7	104.8	449.8	499.4	461.6	2204.8	2311.0	2083.4	1449.7
77.5°	80.0	71.4	65.4	65.6	190.1	529.6	391.0	1220.3	1251.2	941.1	397.2
80°	66.3	58.4	54.1	61.0	92.0	504.4	422.8	552.3	506.8	231.1	132.2
82.5°	46.0	41.9	40.7	51.2	73.7	359.4	491.7	296.8	248.8	115.7	81.6
85°	29.4	25.1	27.8	37.3	57.4	165.9	506.4	231.3	183.9	73.5	46.0
87.5°	13.6	11.0	13.7	20.6	37.4	57.2	481.9	259.8	189.4	38.8	29.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	751.1	751.1	751.1	751.1	751.1	751.1	751.1	751.1	751.1	751.1	751.1
2.5°	751.5	748.2	745.7	740.8	735.5	730.4	725.7	719.9	718.2	716.6	719.0
5°	753.9	750.6	741.2	726.4	710.1	694.8	679.5	666.5	658.4	653.9	656.5
7.5°	757.5	752.9	733.3	706.2	676.8	650.0	622.4	600.2	583.9	576.2	578.4
10°	760.8	751.8	719.9	679.2	636.3	596.4	552.8	516.7	489.9	475.9	479.3
12.5°	762.1	747.9	701.2	645.5	586.6	528.2	464.0	410.1	371.6	357.5	354.6
15°	763.5	743.4	680.6	607.2	526.7	444.1	354.1	289.5	257.6	250.6	249.0
17.5°	763.9	735.7	657.2	565.7	456.5	344.0	242.1	201.1	201.3	212.6	214.0
20°	760.3	724.2	628.9	514.0	372.3	237.8	166.2	159.2	185.1	213.5	216.9
22.5°	752.0	708.9	596.8	453.7	276.0	156.6	128.6	136.4	169.8	204.5	208.5
25°	741.5	690.4	558.8	383.8	182.7	112.0	107.8	117.3	140.0	163.1	165.4
27.5°	727.3	668.4	516.2	303.8	118.7	92.2	95.0	101.3	110.6	120.9	121.9
30°	708.9	642.1	470.7	221.5	89.6	82.9	86.9	90.3	94.3	100.1	100.6
32.5°	687.8	616.9	424.0	153.0	79.5	78.1	81.2	82.9	86.0	89.6	90.0
35°	670.1	592.8	375.6	108.2	75.2	74.5	76.6	77.3	80.2	84.1	84.5
37.5°	660.0	573.2	325.6	87.2	72.3	71.3	72.5	72.5	76.6	82.4	83.3
40°	660.6	562.4	275.6	78.8	69.9	68.5	68.7	68.7	74.0	80.4	80.9
42.5°	679.4	565.2	231.3	75.6	68.0	66.5	65.6	66.1	70.6	74.7	75.0
45°	723.3	584.6	189.8	73.5	66.1	65.6	63.7	63.5	65.3	67.1	67.1
47.5°	795.5	622.9	161.6	72.1	64.6	64.4	62.2	59.9	59.8	60.4	60.4
50°	912.7	688.8	142.7	70.6	63.5	62.2	59.6	56.2	55.0	55.5	55.5
52.5°	1088.6	806.4	135.5	68.5	61.3	59.1	56.2	52.7	51.7	51.9	51.9
55°	1319.2	987.1	134.5	66.1	58.9	55.3	52.9	50.3	49.1	49.5	49.5
57.5°	1601.0	1237.0	152.8	62.3	55.6	51.5	50.1	48.4	47.6	48.1	47.9
60°	1943.6	1563.9	226.7	58.4	52.4	48.1	48.1	46.7	46.0	46.5	46.4
62.5°	2338.3	1939.5	318.7	55.5	48.9	45.3	46.0	45.3	44.6	45.0	44.8
65°	2688.3	2184.2	298.5	53.2	45.5	42.8	44.0	43.6	43.1	43.4	43.3
67.5°	2698.4	2093.6	167.6	50.8	42.2	40.2	41.9	41.7	41.4	41.7	41.6
70°	2408.2	1767.8	94.5	46.4	38.8	37.1	39.5	39.3	39.0	39.7	39.5
72.5°	1929.4	1282.8	69.0	40.9	35.4	33.8	36.6	36.4	36.4	37.4	36.9
75°	1110.2	660.1	55.1	35.0	31.8	30.6	33.0	33.1	33.5	34.9	33.8
77.5°	316.5	205.7	45.0	29.7	27.3	26.8	29.2	29.5	29.7	31.3	29.9
80°	117.6	94.8	37.1	24.9	22.3	22.5	24.7	25.2	25.4	27.0	25.2
82.5°	75.0	62.5	30.1	19.2	17.5	17.3	20.1	20.8	20.8	21.0	19.9
85°	43.8	37.4	22.7	13.9	12.4	11.8	14.9	16.1	15.6	15.3	14.6
87.5°	29.4	25.8	13.9	7.7	6.7	6.4	8.8	9.6	9.3	8.8	8.2
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)